Graphitic Carbon Nitride (g-C₃N<sub>4</s Artificial Photosynthesis and Environmental Remediati Achieving Sustainability?

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Citation Report

#	Article	IF	CITATIONS
4	Origin of Activity and Stability Enhancement for Ag3PO4 Photocatalyst after Calcination. Materials, 2016, 9, 968.	2.9	50
5	Photocatalytic Water Splitting—The Untamed Dream: A Review of Recent Advances. Molecules, 2016, 21, 900.	3.8	447
6	Manganese functionalized mesoporous molecular sieves Ti-HMS as a Fenton-like catalyst for dyes wastewater purification by advanced oxidation processes. Journal of Environmental Chemical Engineering, 2016, 4, 4653-4660.	6.7	18
7	Disentangling the Photocatalytic Hydrogen Evolution Mechanism of One Homogeneous Cobalt-Coordinated Polymer. Journal of Physical Chemistry C, 2016, 120, 28456-28462.	3.1	11
8	Two-dimensional ZnO ultrathin nanosheets decorated with Au nanoparticles for effective photocatalysis. Journal of Applied Physics, 2016, 120, .	2.5	23
9	Insights into enhanced visible-light photocatalytic activity of C ₆₀ modified g-C ₃ N ₄ hybrids: the role of nitrogen. Physical Chemistry Chemical Physics, 2016, 18, 33094-33102.	2.8	31
10	Photogenerated carriers enhancement in Cu-doped ZnSe/ZnS/L-cys self-assembled core-shell quantum dots. Journal of Applied Physics, 2016, 120, .	2.5	9
11	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. Applied Materials Today, 2016, 4, 9-16.	4.3	110
12	Electrocatalytic hydrogen evolution using the MS ₂ @MoS ₂ /rGO (M = Fe or Ni) hybrid catalyst. Chemical Communications, 2016, 52, 11795-11798.	4.1	36
13	Multifunctional redox-tuned viologen-based covalent organic polymers. Journal of Materials Chemistry A, 2016, 4, 15361-15369.	10.3	114
14	Oxygenâ€Deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO ₂ Reduction into Renewable Carbonâ€Neutral Fuels. ChemCatChem, 2016, 8, 3074-3081.	3.7	120
15	Catalytic properties of CuMgAlO catalyst and degradation mechanism in CWPO of methyl orange. Applied Catalysis A: General, 2016, 527, 72-80.	4.3	63
16	Metal/Graphitic Carbon Nitride Composites: Synthesis, Structures, and Applications. Chemistry - an Asian Journal, 2016, 11, 3305-3328.	3.3	102
17	Copyrolysed C ₃ N ₄ â€Ag/ZnO Ternary Heterostructure Systems for Enhanced Adsorption and Photocatalytic Degradation of Tetracycline. European Journal of Inorganic Chemistry, 2016, 2016, 5068-5076.	2.0	60
18	(NH ₄) ₂ SO ₄ -assisted polycondensation of dicyandiamide for porous g-C ₃ N ₄ with enhanced photocatalytic NO removal. RSC Advances, 2016, 6, 96334-96338.	3.6	19
19	Synthesis and characterization of two-dimensional carbon dots decorated with molybdenum oxide nanoflakes with various phases. New Journal of Chemistry, 2016, 40, 8954-8960.	2.8	9
20	Efficient charge separation promoting visible-light-driven photocatalytic activity of MnO x decorated WS 2 hybrid nanosheets. Electrochemistry Communications, 2016, 72, 118-121.	4.7	19
21	Aggregative growth of quasi-octahedral iron pyrite mesocrystals in a polyol solution through oriented attachment. CrystEngComm, 2016, 18, 8823-8828.	2.6	12

#	Article	IF	CITATIONS
22	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. Journal of Materials Chemistry C, 2016, 4, 8146-8160.	5.5	77
23	Highly efficient three-dimensional flower-like AgI/Bi2O2CO3 heterojunction with enhanced photocatalytic performance. Journal of Alloys and Compounds, 2016, 688, 225-234.	5.5	42
24	Strategic Preparation of Efficient and Durable NiCo Alloy Supported Nâ€Đoped Porous Graphene as an Oxygen Evolution Electrocatalyst: A Theoretical and Experimental Investigation. Advanced Materials Interfaces, 2016, 3, 1600532.	3.7	50
25	Facile synthesis of in situ phosphorus-doped g-C ₃ N ₄ with enhanced visible light photocatalytic property for NO purification. RSC Advances, 2016, 6, 88085-88089.	3.6	24
26	The synthesis of elegant hierarchical CdS via a facile hydrothermal method assisted by inorganic salt, with photocorrosion inhibition. CrystEngComm, 2016, 18, 7523-7529.	2.6	12
27	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. Nano Energy, 2016, 28, 158-163.	16.0	94
28	Precise Formation of a Hollow Carbon Nitride Structure with a Janus Surface To Promote Water Splitting by Photoredox Catalysis. Angewandte Chemie, 2016, 128, 11684-11688.	2.0	60
29	Precise Formation of a Hollow Carbon Nitride Structure with a Janus Surface To Promote Water Splitting by Photoredox Catalysis. Angewandte Chemie - International Edition, 2016, 55, 11512-11516.	13.8	438
30	Porous nitrogen-rich carbon materials from carbon self-repairing g-C ₃ N ₄ assembled with graphene for high-performance supercapacitor. Journal of Materials Chemistry A, 2016, 4, 14307-14315.	10.3	93
31	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. ChemSusChem, 2016, 9, 2723-2735.	6.8	96
32	Onion-like carbon modified porous graphitic carbon nitride with excellent photocatalytic activities under visible light. Ceramics International, 2016, 42, 18116-18123.	4.8	41
33	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. Nano Letters, 2016, 16, 6568-6575.	9.1	108
34	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. Catalysis Science and Technology, 2016, 6, 7002-7023.	4.1	350
35	High output power density nanogenerator based on lead-free 0.96(K _{0.48} Na _{0.52})(Nb _{0.95} Sb _{0.05})O ₃ –0.04 piezoelectric nanofibers. RSC Advances, 2016, 6, 66451-66456.	Bissab>0	.5⊄ ⊈ ub>(Na<
36	Hybrid 0D–2D Nanoheterostructures: In Situ Growth of Amorphous Silver Silicates Dots on g-C ₃ N ₄ Nanosheets for Full-Spectrum Photocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 35138-35149.	8.0	111
37	Sulfur-Mediated Self-Templating Synthesis of Tapered C-PAN/g-C ₃ N ₄ Composite Nanotubes toward Efficient Photocatalytic H ₂ Evolution. ACS Energy Letters, 2016, 1, 969-975.	17.4	86
38	Metal-free half-metallicity in a high energy phase C-doped gh-C ₃ N ₄ system: a high Curie temperature planar system. Journal of Materials Chemistry C, 2016, 4, 11530-11539.	5.5	32
39	Oxygen vacancy induced Bi ₂ WO ₆ for the realization of photocatalytic CO ₂ reduction over the full solar spectrum: from the UV to the NIR region. Chemical Communications, 2016, 52, 14242-14245.	4.1	248

# 40	ARTICLE Au Multimer@MoS2 hybrid structures for efficient photocatalytical hydrogen production via strongly plasmonic coupling effect. Nano Energy, 2016, 30, 549-558.	lF 16.0	Citations
41	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. Environmental Science & Technology, 2016, 50, 12938-12948.	10.0	261
42	Preparation of preferentially exposed poison-resistant Pt(111) nanoplates with a nitrogen-doped graphene aerogel. Chemical Communications, 2016, 52, 13815-13818.	4.1	22
43	Cubic mesoporous Ag@CN: a high performance humidity sensor. Nanoscale, 2016, 8, 19794-19803.	5.6	109
44	Novel Fe2(MoO4)3/g-C3N4 heterojunction for efficient contaminant removal and hydrogen production under visible light irradiation. Solar Energy, 2016, 139, 355-364.	6.1	75
45	A new understanding of the photocatalytic mechanism of the direct Z-scheme g-C ₃ N ₄ /TiO ₂ heterostructure. Physical Chemistry Chemical Physics, 2016, 18, 31175-31183.	2.8	459
46	Design of a photoelectrochemical device for the selective conversion of aqueous CO2to CO: using mesoporous palladium–copper bimetallic cathode and hierarchical ZnO-based nanowire array photoanode. Chemical Communications, 2016, 52, 8235-8238.	4.1	32
47	A srikaya-like light-harvesting antenna based on graphene quantum dots and porphyrin unimolecular micelles. Chemical Communications, 2016, 52, 9394-9397.	4.1	30
48	Al- or Si-decorated graphene oxide: A favorable metal-free catalyst for the N2O reduction. Applied Surface Science, 2016, 387, 454-460.	6.1	32
49	A review on g-C 3 N 4 -based photocatalysts. Applied Surface Science, 2017, 391, 72-123.	6.1	2,318
50	Construction of a crossed-layer-structure MoS ₂ /g-C ₃ N ₄ heterojunction with enhanced photocatalytic performance. RSC Advances, 2017, 7, 6131-6139.	3.6	77
51	Boosting Hot-Electron Generation: Exciton Dissociation at the Order–Disorder Interfaces in Polymeric Photocatalysts. Journal of the American Chemical Society, 2017, 139, 2468-2473.	13.7	307
52	Facile synthesis of oxygen doped carbon nitride hollow microsphere for photocatalysis. Applied Catalysis B: Environmental, 2017, 206, 417-425.	20.2	202
53	Synthesis of a nano-sized hybrid C ₃ N ₄ /TiO ₂ sample for enhanced and steady solar energy absorption and utilization. Sustainable Energy and Fuels, 2017, 1, 95-102.	4.9	22
54	Boosting Visibleâ€Lightâ€Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide–Carbon Nitride System. Angewandte Chemie, 2017, 129, 1675-1679.	2.0	57
55	Boosting Visibleâ€Lightâ€Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide–Carbon Nitride System. Angewandte Chemie - International Edition, 2017, 56, 1653-1657.	13.8	261
56	Magnetically separable photocatalyst of direct Z-scheme g-C3N4 nanosheets/natural hematite ore hybrids. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 336, 156-163.	3.9	29
57	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 4558-4569.	8.0	128

	CITATION R	CITATION REPORT	
# 58	ARTICLE Highly enhanced photocatalytic degradation of methylene blue over the indirect all-solid-state Z-scheme g-C3N4-RGO-TiO2 nanoheterojunctions. Applied Surface Science, 2017, 405, 60-70.	IF 6.1	CITATIONS
59	Facile Fabrication of Large-Aspect-Ratio g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2017, 5, 2039-2043.	6.7	104
60	An in situ photoelectroreduction approach to fabricate Bi/BiOCl heterostructure photocathodes: understanding the role of Bi metal for solar water splitting. Journal of Materials Chemistry A, 2017, 5, 4894-4903.	10.3	96
61	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. ChemistrySelect, 2017, 2, 1398-1408.	1.5	19
62	Hierarchical Porous Oâ€Đoped g ₃ N ₄ with Enhanced Photocatalytic CO ₂ Reduction Activity. Small, 2017, 13, 1603938.	10.0	1,025
63	Influence of functional groups on water splitting in carbon nanodot and graphitic carbon nitride composites: a theoretical mechanism study. Physical Chemistry Chemical Physics, 2017, 19, 4997-5003.	2.8	34
64	Photoelectrochemical immunosensing platform for M. SssI methyltransferase activity analysis and inhibitor screening based on g-C3N4 and CdS quantum dots. Sensors and Actuators B: Chemical, 2017, 244, 458-465.	7.8	50
65	Recent Progress in Energyâ€Driven Water Splitting. Advanced Science, 2017, 4, 1600337.	11.2	643
66	Highly interdigitated and porous architected ternary composite of SnS ₂ , g-C ₃ N ₄ , and reduced graphene oxide (rGO) as high performance lithium ion battery anodes. RSC Advances, 2017, 7, 3125-3135.	3.6	37
67	Graphene nanoplatelets induced tailoring in photocatalytic activity and antibacterial characteristics of MgO/graphene nanoplatelets nanocomposites. Journal of Applied Physics, 2017, 121, .	2.5	54
68	Highly porous nitrogen-doped carbon nanoparticles synthesized via simple thermal treatment and their electrocatalytic activity for oxygen reduction reaction. Carbon, 2017, 115, 515-525.	10.3	35
69	Photocatalytic Hydrogen Production: A Rift into the Future Energy Supply. ChemCatChem, 2017, 9, 1523-1544.	3.7	396
70	Oxygen defects-mediated Z-scheme charge separation in g-C3N4/ZnO photocatalysts for enhanced visible-light degradation of 4-chlorophenol and hydrogen evolution. Applied Catalysis B: Environmental, 2017, 206, 406-416.	20.2	333
71	Graphitic C3N4 based noble-metal-free photocatalyst systems: A review. Applied Catalysis B: Environmental, 2017, 206, 556-588.	20.2	575
72	Organic salt induced electrospinning gradient effect: Achievement of BiVO 4 nanotubes with promoted photocatalytic performance. Applied Catalysis B: Environmental, 2017, 208, 14-21.	20.2	60
73	Heterogeneous catalytic conversion of CO2 and epoxides to cyclic carbonates over multifunctional tri-s-triazine terminal-linked ionic liquids. Journal of Catalysis, 2017, 347, 138-147.	6.2	122
74	Role of precursors on the photophysical properties of carbon nitride and its application for antibiotic degradation. Environmental Science and Pollution Research, 2017, 24, 8609-8618.	5.3	77
75	Tailoring the bandgap of N-rich graphitic carbon nitride for enhanced photocatalytic activity. Ceramics International, 2017, 43, 6437-6445.	4.8	33

ARTICLE IF CITATIONS # Visible light-driven graphitic carbon nitride (g-C3N4) photocatalyzed ketalization reaction in methanol with methylviologen as efficient electron mediator. Applied Catalysis B: Environmental, 20.2 39 76 2017, 207, 311-315. Interface role in the enhanced photocatalytic activity of TiO2-Na0.9Mg0.45Ti3.55O8 5.1 nanoheterojunction. APL Materials, 2017, 5, 026104. Synergetic Effect of Ti³⁺ and Oxygen Doping on Enhancing Photoelectrochemical and Photocatalytic Properties of TiO₂/g-C₃N₄ Heterojunctions. ACS Applied Materials & amp; Interfaces, 2017, 9, 11577-11586. 78 8.0 253 Graphitic carbon nitride with S and O codoping for enhanced visible light photocatalytic performance. RSC Advances, 2017, 7, 15842-15850. Mimicking Horseradish Peroxidase Functions Using Cu²⁺-Modified Carbon Nitride Nanoparticles or Cu²⁺-Modified Carbon Dots as Heterogeneous Catalysts. ACS Nano, 2017, 80 14.6 279 11, 3247-3253. Two-Dimensional (2D) Nanomaterials towards Electrochemical Nanoarchitectonics in Energy-Related Applications. Bulletin of the Chemical Society of Japan, 2017, 90, 627-648. 3.2 A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for 82 13.8 374 Photoredox Catalysis. Angewandte Chemie - International Edition, 2017, 56, 3992-3996. High activity of hot electrons from bulk 3D graphene materials for efficient photocatalytic hydrogen 10.4 49 production. Nano Research, 2017, 10, 1662-1672. Unravelling charge carrier dynamics in protonated g-C3N4 interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO2 reduction: A combined experimental and 10.4 84 376 first-principles DFT study. Nano Research, 2017, 10, 1673-1696. In situ synthesis of polymetallic Co-doped g-C3N4 photocatalyst with increased defect sites and superior charge carrier properties. Carbon, 2017, 117, 1-11. A highly efficient pn junction nanocomposite solar-energy-material [nano-photovoltaic] for direct conversion of water molecules to hydrogen solar fuel. Solar Energy Materials and Solar Cells, 2017, 86 6.2 21 165, 9-16. Simple and Large Scale Construction of MoS2-g-C3N4 Heterostructures Using Mechanochemistry for High Performance Electrochemical Supercapacitor and Visible Light Photocatalytic Applications. 87 3.3 Scientific Reports, 2017, 7, 43055. A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for 88 2.0 87 Photoredox Catalysis. Angewandte Chemie, 2017, 129, 4050-4054. Design of 3-Dimensional Hierarchical Architectures of Carbon and Highly Active Transition Metals (Fe,) Tj ETQq1 1 0.784314 rgBT /Ov 89 6.7 104 2017, 29, 1665-1675. Facile synthesis of CdS/MnWO4 heterojunction with enhanced visible-light-driven photocatalytic activity and mechanism investigation. Colloids and Surfaces A: Physicochemical and Engineering 90 49 4.7 Aspects, 2017, 520, 138-145. The origin of the enhanced photocatalytic activity of carbon nitride nanotubes: a first-principles study. Journal of Materials Chemistry Á, 2017, 5, 4827-4834. Photocatalysts fabricated by depositing plasmonic Ag nanoparticles on carbon quantum 92 dots/graphitic carbon nitride for broad spectrum photocatalytic hydrogen generation. Applied 20.2 289 Catalysis B: Environmental, 2017, 209, 161-173. Facile transformation of low cost melamine–oxalic acid into porous graphitic carbon nitride 3.6 nanosheets with high visible-light photocatalytic performance. RSC Advances, 2017, 7, 14372-14381.

#	Article	IF	CITATIONS
94	Metachromasy of methylene blue due to aggregation over phosphate–modified polymeric carbon nitride. Chemical Physics Letters, 2017, 675, 98-103.	2.6	12
95	2D Organic–Inorganic Hybrid Thin Films for Flexible UV–Visible Photodetectors. Advanced Functional Materials, 2017, 27, 1605554.	14.9	125
96	Growth of three-dimensional flower-like SnS ₂ on g-C ₃ N ₄ sheets as an efficient visible-light photocatalyst, photoelectrode, and electrochemical supercapacitance material. Sustainable Energy and Fuels, 2017, 1, 510-519.	4.9	59
97	Nobleâ€Metalâ€Free Metallic Glass as a Highly Active and Stable Bifunctional Electrocatalyst for Water Splitting. Advanced Materials Interfaces, 2017, 4, 1601086.	3.7	60
98	Vapor-Phase Selective Oxidation of Toluene Catalyzed by Graphitic Carbon Nitride Supported Vanadium Oxide. Catalysis Letters, 2017, 147, 509-516.	2.6	11
99	Three-dimensional photocatalysts with a network structure. Journal of Materials Chemistry A, 2017, 5, 5661-5679.	10.3	86
100	Group 6 Layered Transition-Metal Dichalcogenides in Lab-on-a-Chip Devices: 1T-Phase WS ₂ for Microfluidics Non-Enzymatic Detection of Hydrogen Peroxide. Analytical Chemistry, 2017, 89, 4978-4985.	6.5	34
101	C ₃ N ₄ anchored ZIF 8 composites: photo-regenerable, high capacity sorbents as adsorptive photocatalysts for the effective removal of tetracycline from water. Catalysis Science and Technology, 2017, 7, 2118-2128.	4.1	114
102	Photoelectrochemical immunosensor for methylated RNA detection based on g-C 3 N 4 /CdS quantum dots heterojunction and Phos-tag-biotin. Biosensors and Bioelectronics, 2017, 95, 124-130.	10.1	76
103	Structure-property relationships for covalent triazine-based frameworks: The effect of spacer length on photocatalytic hydrogen evolution from water. Polymer, 2017, 126, 283-290.	3.8	135
104	Graphitic-C ₃ N ₄ nanosheets: synergistic effects of hydrogenation and n/n junctions for enhanced photocatalytic activities. Dalton Transactions, 2017, 46, 10641-10649.	3.3	53
105	Optimization of the Photoâ€Electrochemical Performance of Moâ€Doped BiVO ₄ Photoanode by Controlling the Metal–Oxygen Bond State on (020) Facet. Advanced Materials Interfaces, 2017, 4, 1601235.	3.7	44
106	Fabrication of an all solid Z-scheme photocatalyst g-C 3 N 4 /GO/AgBr with enhanced visible light photocatalytic activity. Applied Catalysis A: General, 2017, 539, 104-113.	4.3	124
107	Carbon nanotube/metal-sulfide composite flexible electrodes for high-performance quantum dot-sensitized solar cells and supercapacitors. Scientific Reports, 2017, 7, 46519.	3.3	134
108	Adsorptive removal of herbicides from water over nitrogen-doped carbon obtained from ionic liquid@ZIF-8. Chemical Engineering Journal, 2017, 323, 203-211.	12.7	112
109	In situ DRIFT investigation on the photocatalytic NO oxidation mechanism with thermally exfoliated porous g-C ₃ N ₄ nanosheets. RSC Advances, 2017, 7, 19280-19287.	3.6	23
110	Facial Synthesis and Photoreaction Mechanism of BiFeO ₃ /Bi ₂ Fe ₄ O ₉ Heterojunction Nanofibers. ACS Sustainable Chemistry and Engineering, 2017, 5, 4630-4636.	6.7	96
111	Directional electron delivery via a vertical channel between g-C ₃ N ₄ layers promotes photocatalytic efficiency. Journal of Materials Chemistry A, 2017, 5, 9358-9364.	10.3	159

#	Article	IF	CITATIONS
112	A facile hydrothermal synthesis of carbon dots modified g-C ₃ N ₄ for enhanced photocatalytic H ₂ -evolution performance. Dalton Transactions, 2017, 46, 6417-6424.	3.3	142
113	A very simple method for the preparation of Au/TiO ₂ plasmonic photocatalysts working under irradiation of visible light in the range of 600–700 nm. Chemical Communications, 2017, 53, 4759-4762.	4.1	39
114	Ternary graphitic carbon nitride/red phosphorus/molybdenum disulfide heterostructure: An efficient and low cost photocatalyst for visible-light-driven H2 evolution from water. Carbon, 2017, 119, 56-61.	10.3	60
115	Compact and uniform TiO2@g-C3N4 core-shell quantum heterojunction for photocatalytic degradation of tetracycline antibiotics. Applied Catalysis B: Environmental, 2017, 217, 57-64.	20.2	298
116	Cofactor NAD(P)H Regeneration Inspired by Heterogeneous Pathways. CheM, 2017, 2, 621-654.	11.7	287
117	Explore the properties and photocatalytic performance of iron-doped g-C 3 N 4 nanosheets decorated with Ni 2 P. Molecular Catalysis, 2017, 437, 80-88.	2.0	22
118	Synthesis of Ni ₉ S ₈ /MoS ₂ heterocatalyst for Enhanced Hydrogen Evolution Reaction. Langmuir, 2017, 33, 5148-5153.	3.5	39
119	Bilayer composites consisting of gold nanorods and titanium dioxide as highly sensitive and self-cleaning SERS substrates. Mikrochimica Acta, 2017, 184, 2805-2813.	5.0	19
120	MOFâ€Templated Synthesis of Ultrasmall Photoluminescent Carbonâ€Nanodot Arrays for Optical Applications. Angewandte Chemie - International Edition, 2017, 56, 6853-6858.	13.8	179
121	Fast tuning of covalent triazine frameworks for photocatalytic hydrogen evolution. Chemical Communications, 2017, 53, 5854-5857.	4.1	206
122	MOFâ€Templated Synthesis of Ultrasmall Photoluminescent Carbonâ€Nanodot Arrays for Optical Applications. Angewandte Chemie, 2017, 129, 6957-6962.	2.0	17
123	Fabrication of nanoplate-like g-C 3 N 4 /Bi 12 TiO 20 heterojunction with enhanced visible-light photocatalytic activity. Materials Research Bulletin, 2017, 93, 91-101.	5.2	28
124	Nanocarbon based composite electrodes and their application in microbial fuel cells. Journal of Materials Chemistry A, 2017, 5, 12673-12698.	10.3	80
125	Simultaneous Exfoliation and Modification of Graphitic Carbon Nitride Nanosheets. Advanced Materials Interfaces, 2017, 4, 1700339.	3.7	33
126	Evaluation of a multi-dimensional hybrid photocatalyst for enrichment of H ₂ evolution and elimination of dye/non-dye pollutants. Catalysis Science and Technology, 2017, 7, 2579-2590.	4.1	49
127	Role of C <i>_x</i> N <i>_y</i> â€Triazine in Photocatalysis for Efficient Hydrogen Generation and Organic Pollutant Degradation Under Solar Light Irradiation. Solar Rrl, 2017, 1, 1700012.	5.8	16
128	Synthesis of 1,4-diethynylbenzene-based conjugated polymer photocatalysts and their enhanced visible/near-infrared-light-driven hydrogen production activity. Journal of Catalysis, 2017, 350, 64-71.	6.2	85
129	g-C 3 N 4 /AgBr nanocomposite decorated with carbon dots as a highly efficient visible-light-driven photocatalyst. Journal of Colloid and Interface Science, 2017, 502, 24-32.	9.4	129

#	Article	IF	CITATIONS
130	Fabrication of mesoporous BaTiO 3 /SnO 2 nanorods with highly enhanced photocatalytic degradation of organic pollutants. Journal of Industrial and Engineering Chemistry, 2017, 53, 201-212.	5.8	72
131	Enhancing the catalytic activity of g-C 3 N 4 through Me doping (Me = Cu, Co and Fe) for selective sulfathiazole degradation via redox-based advanced oxidation process. Chemical Engineering Journal, 2017, 323, 260-269.	12.7	243
132	Facile synthesis of Ti 3+ doped Ag/AgI TiO 2 nanoparticles with efficient visible-light photocatalytic activity. International Journal of Hydrogen Energy, 2017, 42, 13031-13038.	7.1	21
133	Impact of the crystallinity of mesoporous polymeric graphitic carbon nitride on the photocatalytic performance under UV and visible light. Microporous and Mesoporous Materials, 2017, 254, 136-145.	4.4	9
134	Construction of WO ₃ –g-C ₃ N ₄ composites as efficient photocatalysts for pharmaceutical degradation under visible light. Catalysis Science and Technology, 2017, 7, 2591-2600.	4.1	86
135	Preparation and characterization of nanocomposite of graphitic carbon nitride and TiO 2 as a porous support for nano catalyst for desulfurization process. Journal of Saudi Chemical Society, 2017, 21, 943-953.	5.2	7
136	3D Au-decorated BiMoO ₆ nanosheet/TiO ₂ nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 16412-16421.	10.3	150
137	Fast flash frozen synthesis of holey few-layer g-C3N4 with high enhancement of photocatalytic reactive oxygen species evolution under visible light irradiation. Applied Catalysis B: Environmental, 2017, 211, 266-274.	20.2	93
138	Silver oxide decorated graphitic carbon nitride for the realization of photocatalytic degradation over the full solar spectrum: From UV to NIR region. Solar Energy Materials and Solar Cells, 2017, 168, 100-111.	6.2	99
139	Carbon nitride nanosheets as visible light photocatalytic initiators and crosslinkers for hydrogels with thermoresponsive turbidity. Journal of Materials Chemistry A, 2017, 5, 8933-8938.	10.3	75
140	Effect of the calcination temperature on the visible light photocatalytic activity of direct contact Z-scheme g-C 3 N 4 -TiO 2 heterojunction. Applied Catalysis B: Environmental, 2017, 212, 106-114.	20.2	177
141	Fabrication of ternary g-C 3 N 4 /Al 2 O 3 /ZnO heterojunctions based on cascade electron transfer toward molecular oxygen activation. Applied Catalysis B: Environmental, 2017, 212, 115-128.	20.2	89
142	Wide spectrum responsive CdS/NiTiO ₃ /CoS with superior photocatalytic performance for hydrogen evolution. Catalysis Science and Technology, 2017, 7, 2524-2530.	4.1	45
143	MoS2-coated microspheres of self-sensitized carbon nitride for efficient photocatalytic hydrogen generation under visible light irradiation. Applied Surface Science, 2017, 396, 1808-1815.	6.1	67
144	Efficient volcano-type dependence of photocatalytic CO2 conversion into methane using hydrogen at reaction pressures up to 0.80 MPa. Journal of Catalysis, 2017, 345, 39-52.	6.2	24
145	Cu2+ coordinated graphitic carbon nitride (Cu-g-C3N4) nanosheets from melamine for the liquid phase hydroxylation of benzene and VOCs. Applied Surface Science, 2017, 398, 43-55.	6.1	85
146	Conductive Carbon Nitride for Excellent Energy Storage. Advanced Materials, 2017, 29, 1701674.	21.0	142
147	Graphene-like carbon nitride nanosheet as a novel sensing platform for electrochemical determination of tryptophan. Journal of Colloid and Interface Science, 2017, 505, 964-972.	9.4	58

#	Article	IF	CITATIONS
148	An experimental and theoretical study of an efficient polymer nano-photocatalyst for hydrogen evolution. Energy and Environmental Science, 2017, 10, 1372-1376.	30.8	192
149	Significantly enhanced wear resistance of PEEK by simply filling with modified graphitic carbon nitride. Materials and Design, 2017, 129, 192-200.	7.0	38
150	g-C3N4/Nb2O5 heterostructures tailored by sonochemical synthesis: Enhanced photocatalytic performance in oxidation of emerging pollutants driven by visible radiation. Applied Catalysis B: Environmental, 2017, 216, 70-79.	20.2	114
151	Visibleâ€Lightâ€Irradiated Graphitic Carbon Nitride Photocatalyzed Diels–Alder Reactions with Dioxygen as Sustainable Mediator for Photoinduced Electrons. Angewandte Chemie - International Edition, 2017, 56, 9336-9340.	13.8	101
152	A high sensitive visible light-driven photoelectrochemical aptasensor for shrimp allergen tropomyosin detection using graphitic carbon nitride-TiO2 nanocomposite. Biosensors and Bioelectronics, 2017, 98, 113-118.	10.1	82
153	A Z-scheme magnetic recyclable Ag/AgBr@CoFe ₂ O ₄ photocatalyst with enhanced photocatalytic performance for pollutant and bacterial elimination. RSC Advances, 2017, 7, 30845-30854.	3.6	40
154	Advancements in the zinc oxide nanomaterials for efficient photocatalysis. Chemical Papers, 2017, 71, 2023-2042.	2.2	85
155	Constructing efficient solar light photocatalytic system with Ag-introduced carbon nitride for organic pollutant elimination. Applied Catalysis B: Environmental, 2017, 217, 232-240.	20.2	59
156	Rational synthesis of ultrathin graphitic carbon nitride nanosheets for efficient photocatalytic hydrogen evolution. Carbon, 2017, 121, 463-471.	10.3	94
157	Phosphorus- and Sulfur-Codoped g-C ₃ N ₄ : Facile Preparation, Mechanism Insight, and Application as Efficient Photocatalyst for Tetracycline and Methyl Orange Degradation under Visible Light Irradiation. ACS Sustainable Chemistry and Engineering, 2017, 5, 5831-5841.	6.7	337
158	Porous Mn doped g-C3N4 photocatalysts for enhanced synergetic degradation under visible-light illumination. Journal of Hazardous Materials, 2017, 339, 43-53.	12.4	136
159	Recent Advances of Graphitic Carbon Nitride-Based Structures and Applications in Catalyst, Sensing, Imaging, and LEDs. Nano-Micro Letters, 2017, 9, 47.	27.0	348
160	Constructing Quantum Dots@Flake Graphitic Carbon Nitride Isotype Heterojunctions for Enhanced Visible-Light-Driven NADH Regeneration and Enzymatic Hydrogenation. Industrial & Engineering Chemistry Research, 2017, 56, 6247-6255.	3.7	45
161	Interfacial defect engineering over fusiform bismuth vanadate photocatalyst enables to excellent solar-to-chemical energy coupling. RSC Advances, 2017, 7, 26717-26721.	3.6	16
162	CO2 Reduction to Renewable Hydrocarbon Fuel—Mimicking Natural Photosynthesis. MRS Advances, 2017, 2, 3383-3388.	0.9	0
163	A novel label-free strategy for pathogenic DNA detection based on metal ion binding-induced fluorescence quenching of graphitic carbon nitride nanosheets. Analyst, The, 2017, 142, 2617-2623.	3.5	26
164	Enhanced CO2 photocatalytic reduction on alkali-decorated graphitic carbon nitride. Applied Catalysis B: Environmental, 2017, 216, 146-155.	20.2	127
165	Synthesis of ¹³ C-, ¹⁵ N-Labeled Graphitic Carbon Nitrides and NMR-Based Evidence of Hydrogen-Bonding Assisted Two-Dimensional Assembly. Chemistry of Materials, 2017, 29, 5080-5089.	6.7	106

ARTICLE IF CITATIONS # Phosphorous doped graphitic-C3N4 hierarchical architecture for hydrogen production from water 4.7 27 166 under visible light. Materials Today Energy, 2017, 5, 91-98. Strategies for Efficient Solar Water Splitting Using Carbon Nitride. Chemistry - an Asian Journal, 2017, 3.3 12, 1421-1434. Easy synthesis of TiO 2 /g-C 3 N 4 heterostructure photocatalyst with large surface area and excellent 168 4.8 35 photocatalytic activity. Ceramics International, 2017, 43, S664-S670. Arylthio―and Arylselenoâ€Substituted <i>s</i>â€Heptazines. Chemistry - A European Journal, 2017, 23, 12510-12518. Surface-engineering strategies for g-C3N4 as efficient visible-light photocatalyst. Current Opinion in 170 5.9 19 Green and Sustainable Chemistry, 2017, 6, 57-62. Photocatalytic overall water splitting by conjugated semiconductors with crystalline poly(triazine) Tj ETQq1 1 0.784314 rgBT loverloo 171 Enhancing Photocatalytic Activity of Graphitic Carbon Nitride by Codoping with P and C for Efficient 172 8.0 130 Hydrogen Generation. ACS Applied Materials & amp; Interfaces, 2017, 9, 21730-21737. Porous graphitic carbon nitride nanosheets prepared under self-producing atmosphere for highly 20.2 99 improved photocatalytic activity. Applied Catalysis B: Environmental, 2017, 217, 322-330. Linker-controlled polymeric photocatalyst for highly efficient hydrogen evolution from water. 174 30.8 222 Energy and Environmental Science, 2017, 10, 1643-1651. Carbon nitrides: synthesis and characterization of a new class of functional materials. Physical 2.8 Chemistry Chemical Physics, 2017, 19, 15613-15638. Doping of graphitic carbon nitride for photocatalysis: A review. Applied Catalysis B: Environmental, 176 20.2 1.194 2017, 217, 388-406. Morphology and defects regulation of carbon nitride by hydrochloric acid to boost visible light 99 absorption and photocatalytic activity. Applied Catalysis B: Environmental, 2017, 217, 629-636. Enhancing reactive oxygen species generation and photocatalytic performance via adding oxygen reduction reaction catalysts into the photocatalysts. Applied Catalysis B: Environmental, 2017, 218, 178 20.2 82 174-185. Concentration and temperature dependent luminescence properties of Gd 2 MoO 6 :Eu 3+ and white light generation from g-C 3 N 4 /Gd 2 MoO 6 :Eu 3+ composite phosphor. Polyhedron, 2017, 133, 398-403. 179 2.2 Graphdiyneâ€Supported NiCo₂S₄ Nanowires: A Highly Active and Stable 3D 180 10.0 194 Bifunctional Electrode Material. Small, 2017, 13, 1700936. Ni-Co layered double hydroxides cocatalyst for sustainable oxygen photosynthesis. Applied Catalysis B: Environmental, 2017, 210, 454-461. Photocatalytic degradation of Rhodamine B over a novel mesoporous titanosilicate/g-C 3 N 4 nanocomposite under direct sunlight irradiation. Microporous and Mesoporous Materials, 2017, 247, 182 4.4 29 86-94. Enhanced visible-light photocatalytic H₂-generation activity of carbon/g-C < sub > 3 < /sub > N < sub > 4 < /sub > nanocomposites prepared by two-step thermal treatment.3.3 128 Dalton Transactions, 2017, 46, 10611-10619.

#	Article	IF	CITATIONS
184	Coordination chemistry in the design of heterogeneous photocatalysts. Chemical Society Reviews, 2017, 46, 2799-2823.	38.1	449
185	Visible-light-driven photooxidation of alcohols using surface-doped graphitic carbon nitride. Green Chemistry, 2017, 19, 2096-2100.	9.0	49
186	Visible-light-driven heterojunction photocatalysts based on g-C3N4 decorated La2Ti2O7: Effective transportation of photogenerated carriers in this heterostructure. Catalysis Communications, 2017, 96, 50-53.	3.3	15
187	Construction of Ag 3 PO 4 /Ag 2 MoO 4 Z-scheme heterogeneous photocatalyst for the remediation of organic pollutants. Chinese Journal of Catalysis, 2017, 38, 337-347.	14.0	105
188	A facile mechanochemical route to a covalently bonded graphitic carbon nitride (g-C ₃ N ₄) and fullerene hybrid toward enhanced visible light photocatalytic hydrogen production. Nanoscale, 2017, 9, 5615-5623.	5.6	89
189	Hydroxylation of Benzene via C–H Activation Using Bimetallic CuAg@g-C ₃ N ₄ . ACS Sustainable Chemistry and Engineering, 2017, 5, 3637-3640.	6.7	78
190	Two-dimensional mesoporous g-C 3 N 4 nanosheet-supported MgIn 2 S 4 nanoplates as visible-light-active heterostructures for enhanced photocatalytic activity. Journal of Catalysis, 2017, 349, 8-18.	6.2	113
191	Carbon dots and Ag nanoparticles decorated g-C 3 N 4 nanosheets for enhanced organic pollutants degradation under sunlight irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 342, 42-52.	3.9	82
192	Trace-level phosphorus and sodium co-doping of g-C 3 N 4 for enhanced photocatalytic H 2 production. Journal of Power Sources, 2017, 351, 151-159.	7.8	205
193	A review on methane transformation to hydrogen and nanocarbon: Relevance of catalyst characteristics and experimental parameters on yield. Renewable and Sustainable Energy Reviews, 2017, 76, 743-767.	16.4	79
194	Oxidative Polyoxometalates Modified Graphitic Carbon Nitride for Visible-Light CO ₂ Reduction. ACS Applied Materials & Interfaces, 2017, 9, 11689-11695.	8.0	122
195	Enriching CO ₂ Activation Sites on Graphitic Carbon Nitride with Simultaneous Introduction of Electronâ€Transfer Promoters for Superior Photocatalytic CO ₂ â€toâ€Fuel Conversion. Advanced Sustainable Systems, 2017, 1, 1700003.	5.3	65
196	Fabrication of porous graphitic carbon nitride-titanium dioxide heterojunctions with enhanced photo-energy conversion activity. Chinese Chemical Letters, 2017, 28, 1312-1317.	9.0	18
197	Covalent combination of polyoxometalate and graphitic carbon nitride for light-driven hydrogen peroxide production. Nano Energy, 2017, 35, 405-414.	16.0	162
199	Disinfection of Multidrug Resistant Escherichia coli by Solar-Photocatalysis using Fe-doped ZnO Nanoparticles. Scientific Reports, 2017, 7, 104.	3.3	65
201	Zinc oxide nanostructures and its nano-compounds for efficient visible light photo-catalytic processes. Proceedings of SPIE, 2017, , .	0.8	3
202	Designing Zâ€scheme 2D ₃ N ₄ /Ag ₃ VO ₄ hybrid structures for improved photocatalysis and photocatalytic mechanism insight. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600946.	1.8	18
203	Influence of solvothermal synthesis on the photocatalytic degradation activity of carbon nitride under visible light irradiation. Chemical Engineering Science, 2017, 167, 1-9.	3.8	35

#	Article	IF	CITATIONS
204	Enhanced photocatalytic hydrogen evolution along with byproducts suppressing over Z-scheme Cd Zn1â^'S/Au/g-C3N4 photocatalysts under visible light. Science Bulletin, 2017, 62, 602-609.	9.0	123
205	Determination of Crystal Structure of Graphitic Carbon Nitride: Ab Initio Evolutionary Search and Experimental Validation. Chemistry of Materials, 2017, 29, 2694-2707.	6.7	83
206	Making co-condensed amorphous carbon/g-C3N4 composites with improved visible-light photocatalytic H2-production performance using Pt as cocatalyst. Carbon, 2017, 118, 241-249.	10.3	356
207	Fabrication of In 2 O 3 /Co 3 O 4 -palygorskite composites by the pyrolysis of In/Co-MOFs for efficient degradation of methylene blue and tetracycline. Materials Research Bulletin, 2017, 91, 1-8.	5.2	42
208	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. Chemical Reviews, 2017, 117, 6225-6331.	47.7	3,940
209	Time-Resolved Spectroscopic Investigation of Charge Trapping in Carbon Nitrides Photocatalysts for Hydrogen Generation. Journal of the American Chemical Society, 2017, 139, 5216-5224.	13.7	397
210	A new precursor to synthesize g-C ₃ N ₄ with superior visible light absorption for photocatalytic application. Catalysis Science and Technology, 2017, 7, 1826-1830.	4.1	35
211	A robust design of Ru quantum dot/N-doped holey graphene for efficient Li–O ₂ batteries. Journal of Materials Chemistry A, 2017, 5, 619-631.	10.3	55
212	Low-temperature growth of polyethylene glycol-doped BiZn2VO6 nanocompounds with enhanced photoelectrochemical properties. Journal of Materials Chemistry A, 2017, 5, 1112-1119.	10.3	6
213	Catalytically active designer crown-jewel Pd-based nanostructures encapsulated in metal–organic frameworks. Chemical Communications, 2017, 53, 1184-1187.	4.1	35
214	Cdln ₂ S ₄ /g-C ₃ N ₄ heterojunction photocatalysts: enhanced photocatalytic performance and charge transfer mechanism. RSC Advances, 2017, 7, 231-237.	3.6	52
215	Anchoring of silver nanoparticles on graphitic carbon nitride sheets for the synergistic catalytic reduction of 4-nitrophenol. Chemosphere, 2017, 172, 147-154.	8.2	44
216	A visible-light-driven heterojunction for enhanced photocatalytic water splitting over Ta2O5 modified g-C3N4 photocatalyst. International Journal of Hydrogen Energy, 2017, 42, 6738-6745.	7.1	120
217	Thylakoid-Inspired Multishell g-C ₃ N ₄ Nanocapsules with Enhanced Visible-Light Harvesting and Electron Transfer Properties for High-Efficiency Photocatalysis. ACS Nano, 2017, 11, 1103-1112.	14.6	368
218	Markedly enhanced visible-light photocatalytic H ₂ generation over g-C ₃ N ₄ nanosheets decorated by robust nickel phosphide (Ni ₁₂ P ₅) cocatalysts. Dalton Transactions, 2017, 46, 1794-1802.	3.3	111
219	Ta O C chemical bond enhancing charge separation between Ta4+ doped Ta2O5 quantum dots and cotton-like g-C3N4. Applied Catalysis B: Environmental, 2017, 205, 271-280.	20.2	73
220	Graphitic carbon nitride-supported iron oxides: High-performance photocatalysts for the visible-light-driven degradation of 4-nitrophenol. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 336, 105-114.	3.9	36
221	A Composite Polymeric Carbon Nitride with In Situ Formed Isotype Heterojunctions for Highly Improved Photocatalysis under Visible Light. Small, 2017, 13, 1603182.	10.0	55

#	Article	IF	CITATIONS
222	Novel MoS 2 -modified AgVO 3 composites with remarkably enhanced photocatalytic activity under visible-light irradiation. Materials Letters, 2017, 188, 252-256.	2.6	29
223	Grafting Fe(III) species on carbon nanodots/Fe-doped g-C3N4 via interfacial charge transfer effect for highly improved photocatalytic performance. Applied Catalysis B: Environmental, 2017, 205, 173-181.	20.2	150
224	Photocatalytic Activity of g-C ₃ N ₄ Quantum Dots in Visible Light: Effect of Physicochemical Modifications. Journal of Physical Chemistry C, 2017, 121, 1982-1989.	3.1	68
225	A Metalâ€Free, Nonconjugated Polymer for Solar Photocatalysis. Chemistry - A European Journal, 2017, 23, 2867-2876.	3.3	7
226	Graphene-like sulfur-doped g-C3N4 for photocatalytic reduction elimination of UO22+ under visible Light. Applied Catalysis B: Environmental, 2017, 205, 319-326.	20.2	160
227	Defective graphitic carbon nitride synthesized by controllable co-polymerization with enhanced visible light photocatalytic hydrogen evolution. Catalysis Science and Technology, 2017, 7, 452-458.	4.1	74
228	Photoregenerable, Bifunctional Granules of Carbon-Doped g-C ₃ N ₄ as Adsorptive Photocatalyst for the Efficient Removal of Tetracycline Antibiotic. ACS Sustainable Chemistry and Engineering, 2017, 5, 1610-1618.	6.7	132
229	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO2 with C60 assisted by polyethylenimine ethoxylated interfacial layers. Solar Energy Materials and Solar Cells, 2017, 161, 338-346.	6.2	49
230	Bio-directed morphology engineering towards hierarchical 1D to 3D macro/meso/nanoscopic morph-tunable carbon nitride assemblies for enhanced artificial photosynthesis. Journal of Materials Chemistry A, 2017, 5, 2195-2203.	10.3	21
231	Metal-free photocatalysts for various applications in energy conversion and environmental purification. Green Chemistry, 2017, 19, 882-899.	9.0	261
232	Effective Prevention of Charge Trapping in Graphitic Carbon Nitride with Nanosized Red Phosphorus Modification for Superior Photo(electro)catalysis. Advanced Functional Materials, 2017, 27, 1703484.	14.9	188
233	Determination of Band Alignment in the Synergistic Catalyst of Electronic Structure-Modified Graphitic Carbon Nitride-Integrated Ceria Quantum-Dot Heterojunctions for Rapid Degradation of Organic Pollutants. Journal of Physical Chemistry C, 2017, 121, 25229-25242.	3.1	44
234	Distorted Carbon Nitride Structure with Substituted Benzene Moieties for Enhanced Visible Light Photocatalytic Activities. ACS Applied Materials & Interfaces, 2017, 9, 40360-40368.	8.0	80
235	Pharaoh's Serpents: New Insights into a Classic Carbon Nitride Material. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1572-1580.	1.2	12
236	In situ fabrication of SnO2/S-doped g-C3N4 nanocomposites and improved visible light driven photodegradation of methylene blue. Journal of Molecular Liquids, 2017, 248, 688-702.	4.9	60
237	Enhanced charge separation and photoactivity in heterostructured g-C ₃ N ₄ : a synergistic interaction in environmental friendly CaO/g-C ₃ N ₄ . Catalysis Science and Technology, 2017, 7, 4940-4943.	4.1	16
238	Green Synthesis of Fe ₃ O ₄ /RGO Nanocomposite with Enhanced Photocatalytic Performance for Cr(VI) Reduction, Phenol Degradation, and Antibacterial Activity. ACS Sustainable Chemistry and Engineering, 2017, 5, 10551-10562.	6.7	235
239	Selective Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid Using O ₂ and a Photocatalyst of Co-thioporphyrazine Bonded to g-C ₃ N ₄ . Journal of the American Chemical Society, 2017, 139, 14775-14782.	13.7	317

#	Article	IF	CITATIONS
240	Semiconductive Copper(I)–Organic Frameworks for Efficient Lightâ€Driven Hydrogen Generation Without Additional Photosensitizers and Cocatalysts. Angewandte Chemie, 2017, 129, 14829-14833.	2.0	26
241	Semiconductive Copper(I)–Organic Frameworks for Efficient Lightâ€Driven Hydrogen Generation Without Additional Photosensitizers and Cocatalysts. Angewandte Chemie - International Edition, 2017, 56, 14637-14641.	13.8	248
242	Intermediate-mediated strategy to horn-like hollow mesoporous ultrathin g-C3N4 tube with spatial anisotropic charge separation for superior photocatalytic H2 evolution. Nano Energy, 2017, 41, 738-748.	16.0	215
243	Graphitic carbon nitride (g-C ₃ N ₄)-based photocatalysts for solar hydrogen generation: recent advances and future development directions. Journal of Materials Chemistry A, 2017, 5, 23406-23433.	10.3	472
244	Photocatalytic water splitting for hydrogen production. Current Opinion in Electrochemistry, 2017, 5, 56-62.	4.8	107
245	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 33, 54-82.	11.6	101
246	Dye-sensitized photocatalyst for effective water splitting catalyst. Science and Technology of Advanced Materials, 2017, 18, 705-723.	6.1	98
247	Precisely tunable thickness of graphitic carbon nitride nanosheets for visible-light-driven photocatalytic hydrogen evolution. Nanoscale, 2017, 9, 14103-14110.	5.6	91
248	Highly permeable and antifouling reverse osmosis membranes with acidified graphitic carbon nitride nanosheets as nanofillers. Journal of Materials Chemistry A, 2017, 5, 19875-19883.	10.3	103
249	Sulfur-Doped Mesoporous Carbon Nitride Decorated with Cu Particles for Efficient Photocatalytic Degradation under Visible-Light Irradiation. Journal of Physical Chemistry C, 2017, 121, 19239-19253.	3.1	60
250	Synthesis of plasmonic Ti ³⁺ doped Au/Cl-TiO ₂ mesocrystals with enhanced visible light photocatalytic activity. Dalton Transactions, 2017, 46, 11898-11904.	3.3	19
251	Two-dimensional nanomaterials for photocatalytic CO ₂ reduction to solar fuels. Sustainable Energy and Fuels, 2017, 1, 1875-1898.	4.9	156
252	Enhanced visible light photocatalytic performance of g-C3N4/CuS p-n heterojunctions for degradation of organic dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 348, 168-178.	3.9	62
253	Highly active Ru-g-C3N4 photocatalyst for visible light assisted selective hydrogen transfer reaction using hydrazine at room temperature. Catalysis Communications, 2017, 102, 48-52.	3.3	21
254	Folded nano-porous graphene-like carbon nitride with significantly improved visible-light photocatalytic activity for dye degradation. Ceramics International, 2017, 43, 15785-15792.	4.8	28
255	Metal-Free Photocatalyst for H ₂ Evolution in Visible to Near-Infrared Region: Black Phosphorus/Graphitic Carbon Nitride. Journal of the American Chemical Society, 2017, 139, 13234-13242.	13.7	907
256	Reduced Oxygenated <i>g</i> ₃ N ₄ with Abundant Nitrogen Vacancies for Visibleâ€Light Photocatalytic Applications. Chemistry - A European Journal, 2017, 23, 15466-15473.	3.3	62
257	g-C ₃ N ₄ /TiO ₂ Mesocrystals Composite for H ₂ Evolution under Visible-Light Irradiation and Its Charge Carrier Dynamics. ACS Applied Materials & Interfaces, 2017, 9, 34844-34854.	8.0	163

#	Article	IF	CITATIONS
258	Developing an efficient NiCo ₂ S ₄ cocatalyst for improving the visible light H ₂ evolution performance of CdS nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 25919-25926.	2.8	43
259	Fabricating efficient CdSe–CdS photocatalyst systems by spatially resetting water splitting sites. Journal of Materials Chemistry A, 2017, 5, 20131-20135.	10.3	21
260	Efficient Photocatalytic Hydrogen Evolution on Band Structure Tuned Polytriazine/Heptazine Based Carbon Nitride Heterojunctions with Ordered Needle-like Morphology Achieved by an In Situ Molten Salt Method. Journal of Physical Chemistry C, 2017, 121, 21497-21509.	3.1	64
261	Development of a Robust PET-RAFT Polymerization Using Graphitic Carbon Nitride (g-C ₃ N ₄). Macromolecules, 2017, 50, 7509-7516.	4.8	108
262	Tailoring the Electronic Band Gap and Band Edge Positions in the C ₂ N Monolayer by P and As Substitution for Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2017, 121, 22216-22224.	3.1	80
263	Bismuth Silver Oxysulfide for Photoconversion Applications: Structural and Optoelectronic Properties. Chemistry of Materials, 2017, 29, 8679-8689.	6.7	28
264	Improved Photodegradation Efficiency of 2,4-DCP Through a Combined Q3Fe(III)-Decorated Porous g-C3N4/H2O2 System. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	6
265	Enhancing Selective Photooxidation through Co–Nx-doped Carbon Materials as Singlet Oxygen Photosensitizers. ACS Catalysis, 2017, 7, 7267-7273.	11.2	111
266	Understanding of Electrochemical Mechanisms for CO ₂ Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). ACS Nano, 2017, 11, 10825-10833.	14.6	359
267	Photoactuation Healing of αâ€FeOOH@gâ€C ₃ N ₄ Catalyst for Efficient and Stable Activation of Persulfate. Small, 2017, 13, 1702225.	10.0	76
268	Constructing the novel ultrafine amorphous iron oxyhydroxide/g-C3N4 nanosheets heterojunctions for highly improved photocatalytic performance. Scientific Reports, 2017, 7, 8686.	3.3	53
269	Hydrogen production with ultrahigh efficiency under visible light by graphene well-wrapped UiO-66-NH ₂ octahedrons. Journal of Materials Chemistry A, 2017, 5, 20136-20140.	10.3	68
270	CO ₂ Reduction: From the Electrochemical to Photochemical Approach. Advanced Science, 2017, 4, 1700194.	11.2	651
271	Nano g-C3N4/TiO2 composite: A highly efficient photocatalyst for selenium (VI) photochemical vapor generation for its ultrasensitive AFS determination. Microchemical Journal, 2017, 135, 158-162.	4.5	30
272	Scalable and super-stable exfoliation of graphitic carbon nitride in biomass-derived γ-valerolactone: enhanced catalytic activity for the alcoholysis and cycloaddition of epoxides with CO ₂ . Green Chemistry, 2017, 19, 5041-5045.	9.0	33
273	Facile Gel-Based Morphological Control of Ag/ <i>g</i> -C ₃ N ₄ Porous Nanofibers for Photocatalytic Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2017, 5, 10633-10639.	6.7	122
274	Free Channel Formation around Graphitic Carbon Nitride Embedded in Porous Polyethylene Terephthalate Nanofibers with Excellent Reusability for Eliminating Antibiotics under Solar Irradiation. Industrial & Engineering Chemistry Research, 2017, 56, 11151-11160.	3.7	21
275	Promotion of the excited electron transfer over Ni- and Co -sulfide co-doped g-C3N4 photocatalyst (g-C3N4/NixCo1â°'xS2) for hydrogen Production under visible light irradiation. Scientific Reports, 2017, 7, 7710.	3.3	31

#	Article	IF	CITATIONS
276	An efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiations. Scientific Reports, 2017, 7, 9898.	3.3	17
277	NH2-MIL-125(Ti)/graphitic carbon nitride heterostructure decorated with NiPd co-catalysts for efficient photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2017, 219, 101-108.	20.2	102
278	Nature-Mimic Method To Fabricate Polydopamine/Graphitic Carbon Nitride for Enhancing Photocatalytic Degradation Performance. ACS Sustainable Chemistry and Engineering, 2017, 5, 7840-7850.	6.7	150
279	<i>In situ</i> decoration of plasmonic Au nanoparticles on graphene quantum dots-graphitic carbon nitride hybrid and evaluation of its visible light photocatalytic performance. Nanotechnology, 2017, 28, 395703.	2.6	53
280	Preparation of bismuth stannate/silver@silver chloride film samples with enhanced photocatalytic performance and self-cleaning ability. Journal of Colloid and Interface Science, 2017, 507, 260-270.	9.4	9
281	Near-Room-Temperature Ethanol Detection Using Ag-Loaded Mesoporous Carbon Nitrides. ACS Omega, 2017, 2, 3658-3668.	3.5	75
282	Fabrication of compressible and recyclable macroscopic g-C3N4/GO aerogel hybrids for visible-light harvesting: A promising strategy for water remediation. Applied Catalysis B: Environmental, 2017, 219, 241-248.	20.2	135
283	Growth of C3N4 nanosheets on carbon-fiber cloth as flexible and macroscale filter-membrane-shaped photocatalyst for degrading the flowing wastewater. Applied Catalysis B: Environmental, 2017, 219, 425-431.	20.2	132
284	High efficiency for H2 evolution and NO removal over the Ag nanoparticles bridged g-C3N4 and WS2 heterojunction photocatalysts. Applied Catalysis B: Environmental, 2017, 219, 467-478.	20.2	78
285	Graphene/graphitic carbon nitride hybrids for catalysis. Materials Horizons, 2017, 4, 832-850.	12.2	168
286	Coassembly and high ORR performance of monodisperse Pt nanocrystals with a mesopore-rich nitrogen-doped graphene aerogel. Journal of Materials Chemistry A, 2017, 5, 17544-17548.	10.3	39
287	Study of the electrooxidation of borohydride on a directly formed CoB/Ni-foam electrode and its application in membraneless direct borohydride fuel cells. Journal of Materials Chemistry A, 2017, 5, 15879-15890.	10.3	42
288	Fabrication of WO3@g-C3N4 with core@shell nanostructure for enhanced photocatalytic degradation activity under visible light. Applied Surface Science, 2017, 423, 197-204.	6.1	86
289	Iron-based metal–organic frameworks (MOFs) for visible-light-induced photocatalysis. Research on Chemical Intermediates, 2017, 43, 5169-5186.	2.7	88
290	Preparation of Carbonâ€Rich <i>g</i> ₃ N ₄ Nanosheets with Enhanced Visible Light Utilization for Efficient Photocatalytic Hydrogen Production. Small, 2017, 13, 1701552.	10.0	142
291	Metal Organic Frameworks: A New Generation Coordination Polymers for Visible Light Photocatalysis. ChemistrySelect, 2017, 2, 6163-6177.	1.5	23
292	Synthesis of Z-scheme Ag2CrO4/Ag/g-C3N4 composite with enhanced visible-light photocatalytic activity for 2,4-dichlorophenol degradation. Applied Catalysis B: Environmental, 2017, 219, 439-449.	20.2	127
293	Aligned cobalt-based Co@CoO _x nanostructures for efficient electrocatalytic water oxidation. Chemical Communications, 2017, 53, 9277-9280.	4.1	65

#	Article	IF	CITATIONS
294	Facile one-pot synthesis of cerium oxide/sulfur-doped graphitic carbon nitride (g-C3N4) as efficient nanophotocatalysts under visible light irradiation. Journal of Colloid and Interface Science, 2017, 507, 59-73.	9.4	113
295	Particulate photocatalysts for overall water splitting. Nature Reviews Materials, 2017, 2, .	48.7	1,427
296	Collaborative design of Li–S batteries using 3D N-doped graphene aerogel as a sulfur host and graphitic carbon nitride paper as an interlayer. Sustainable Energy and Fuels, 2017, 1, 1759-1765.	4.9	35
297	The facile synthesis of graphitic carbon nitride from amino acid and urea for photocatalytic H2 production. Research on Chemical Intermediates, 2017, 43, 5137-5152.	2.7	38
298	Visible light photocatalytic activities of template free porous graphitic carbon nitride—BiOBr composite catalysts towards the mineralization of reactive dyes. Applied Surface Science, 2017, 426, 1030-1045.	6.1	47
299	Atomicâ€Scale CoO <i>_x</i> Species in Metal–Organic Frameworks for Oxygen Evolution Reaction. Advanced Functional Materials, 2017, 27, 1702546.	14.9	327
300	3D Self‣upported Feâ€Doped Ni ₂ P Nanosheet Arrays as Bifunctional Catalysts for Overall Water Splitting. Advanced Functional Materials, 2017, 27, 1702513.	14.9	454
301	Atomicâ€Level Insight into Optimizing the Hydrogen Evolution Pathway over a Co ₁ â€N ₄ Singleâ€6ite Photocatalyst. Angewandte Chemie, 2017, 129, 12359-12364.	2.0	36
302	Atomicâ€Level Insight into Optimizing the Hydrogen Evolution Pathway over a Co ₁ â€N ₄ Singleâ€6ite Photocatalyst. Angewandte Chemie - International Edition, 2017, 56, 12191-12196.	13.8	269
303	Facile synthesis of AuPd/g-C3N4 nanocomposite: An effective strategy to enhance photocatalytic hydrogen evolution activity. International Journal of Hydrogen Energy, 2017, 42, 22765-22775.	7.1	67
304	Tailored Graphitic Carbon Nitride Nanostructures: Synthesis, Modification, and Sensing Applications. Advanced Functional Materials, 2017, 27, 1702695.	14.9	149
305	Controllable synthesis of inorganic–organic Zn _{1â^'x} Cd _x S-DETA solid solution nanoflowers and their enhanced visible-light photocatalytic hydrogen-production performance. Dalton Transactions, 2017, 46, 11335-11343.	3.3	43
306	BrÃ,nsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 19227-19236.	10.3	36
307	Photocatalysis: Basic Principles, Diverse Forms of Implementations and Emerging Scientific Opportunities. Advanced Energy Materials, 2017, 7, 1700841.	19.5	484
308	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. Environmental Science & Technology, 2017, 51, 10682-10690.	10.0	203
309	Noble-Metal-Free Iron Phosphide Cocatalyst Loaded Graphitic Carbon Nitride as an Efficient and Robust Photocatalyst for Hydrogen Evolution under Visible Light Irradiation. ACS Sustainable Chemistry and Engineering, 2017, 5, 8053-8060.	6.7	100
310	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2017, 5, 19062-19071.	10.3	43
311	Hierarchical ZnIn ₂ S ₄ /MoSe ₂ Nanoarchitectures for Efficient Nobleâ€Metalâ€Free Photocatalytic Hydrogen Evolution under Visible Light. ChemSusChem, 2017, 10, 4624-4631.	6.8	140

#	Article	IF	CITATIONS
312	Co Nanoparticles/Co, N, S Tri-doped Graphene Templated from In-Situ-Formed Co, S Co-doped g-C ₃ N ₄ as an Active Bifunctional Electrocatalyst for Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 28566-28576.	8.0	121
313	Face-to-Face Interfacial Assembly of Ultrathin g-C ₃ N ₄ and Anatase TiO ₂ Nanosheets for Enhanced Solar Photocatalytic Activity. ACS Applied Materials & Interfaces, 2017, 9, 28674-28684.	8.0	156
314	Strongly interactive 0D/2D hetero-structure of a Zn _x Cd _{1â^'x} S nano-particle decorated phosphorene nano-sheet for enhanced visible-light photocatalytic H ₂ production. Chemical Communications, 2017, 53, 9882-9885.	4.1	68
315	Modification of surface properties and enhancement of photocatalytic performance for g-C3N4 via plasma treatment. Carbon, 2017, 123, 651-659.	10.3	52
316	<i>In Situ</i> Fabrication of TiO ₂ /Bi3.64Mo0.36O6.55Nanocomposite with High Visible-Light-Driven Photocatalytic Efficiency. Nano, 2017, 12, 1750059.	1.0	4
317	A Benchmark Quantum Yield for Water Photoreduction on Amorphous Carbon Nitride. Advanced Functional Materials, 2017, 27, 1702384.	14.9	115
318	Combining Heterojunction Engineering with Surface Cocatalyst Modification To Synergistically Enhance the Photocatalytic Hydrogen Evolution Performance of Cadmium Sulfide Nanorods. ACS Sustainable Chemistry and Engineering, 2017, 5, 7670-7677.	6.7	123
319	Emerging investigators series: advances and challenges of graphitic carbon nitride as a visible-light-responsive photocatalyst for sustainable water purification. Environmental Science: Water Research and Technology, 2017, 3, 982-1001.	2.4	33
320	Achieving highly stable Li–O ₂ battery operation by designing a carbon nitride-based cathode towards a stable reaction interface. Journal of Materials Chemistry A, 2017, 5, 18207-18213.	10.3	14
321	Hydrothermal synthesis of mpg-C ₃ N ₄ and Bi ₂ WO ₆ nest-like structure nanohybrids with enhanced visible light photocatalytic activities. RSC Advances, 2017, 7, 38682-38690.	3.6	73
322	Direct Z-scheme g-C3N4/WO3 photocatalyst with atomically defined junction for H2 production. Applied Catalysis B: Environmental, 2017, 219, 693-704.	20.2	617
323	Highly efficient and recyclable catalyst for the direct chlorination, bromination and iodination of terminal alkynes. Journal of Catalysis, 2017, 353, 199-204.	6.2	9
324	Fast Electron Transfer and [•] OH Formation: Key Features for High Activity in Visible-Light-Driven Ozonation with C ₃ N ₄ Catalysts. ACS Catalysis, 2017, 7, 6198-6206.	11.2	135
325	Graphitic Carbon Nitride (gâ€C ₃ N ₄)â€derived Feâ€Nâ€C Catalysts for Selective Hydrodeoxygenation of 5â€Hydroxymethylfurfural to 2,5â€Dimethylfuran. ChemistrySelect, 2017, 2, 11062-11070.	1.5	26
326	Cross-Linked Graphitic Carbon Nitride with Photonic Crystal Structure for Efficient Visible-Light-Driven Photocatalysis. ACS Applied Materials & Interfaces, 2017, 9, 44503-44511.	8.0	31
327	Hydrothermal synthesized novel nanoporous g-C3N4/MnTiO3 heterojunction with direct Z-scheme mechanism. Electrochimica Acta, 2017, 258, 998-1007.	5.2	34
328	Layer-by-layer self-assembly photocatalytic nanocoating on cotton fabrics as easily recycled photocatalyst for degrading gas and liquid pollutants. Cellulose, 2017, 24, 4569-4580.	4.9	24
329	Surface modification of layered perovskite Sr2TiO4 for improved CO2 photoreduction with H2O to CH4. Scientific Reports, 2017, 7, 16370.	3.3	24

#	Article	IF	CITATIONS
330	C–S bond induced ultrafine SnS ₂ dot/porous g-C ₃ N ₄ sheet 0D/2D heterojunction: synthesis and photocatalytic mechanism investigation. Dalton Transactions, 2017, 46, 17032-17040.	3.3	50
331	Construction of Z-scheme heterostructure with enhanced photocatalytic H2 evolution for g-C3N4 nanosheets via loading porous silicon. Journal of Catalysis, 2017, 356, 22-31.	6.2	71
332	Photosensitivity of g-C ₃ N ₄ /S-doped carbon composites: study of surface stability upon exposure to CO ₂ and/or water in ambient light. Journal of Materials Chemistry A, 2017, 5, 24880-24891.	10.3	17
333	Methylamine lead bromide perovskite/protonated graphitic carbon nitride nanocomposites: interfacial charge carrier dynamics and photocatalysis. Journal of Materials Chemistry A, 2017, 5, 25438-25449.	10.3	91
334	High Photocatalytic Activity of Heptazine-Based g-C ₃ N ₄ /SnS ₂ Heterojunction and Its Origin: Insights from Hybrid DFT. Journal of Physical Chemistry C, 2017, 121, 25827-25835.	3.1	142
335	Visible-light-driven conversion of CO ₂ from air to CO using an ionic liquid and a conjugated polymer. Green Chemistry, 2017, 19, 5777-5781.	9.0	62
336	Z-Scheme NiTiO ₃ /g-C ₃ N ₄ Heterojunctions with Enhanced Photoelectrochemical and Photocatalytic Performances under Visible LED Light Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 41120-41125.	8.0	130
337	Improved interfacial H ₂ O supply by surface hydroxyl groups for enhanced alkaline hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 24091-24097.	10.3	47
338	Steering the interlayer energy barrier and charge flow via bioriented transportation channels in g-C3N4: Enhanced photocatalysis and reaction mechanism. Journal of Catalysis, 2017, 352, 351-360.	6.2	173
339	Visibleâ€Lightâ€Irradiated Graphitic Carbon Nitride Photocatalyzed Diels–Alder Reactions with Dioxygen as Sustainable Mediator for Photoinduced Electrons. Angewandte Chemie, 2017, 129, 9464-9468.	2.0	25
340	Single Atomically Sharp Lateral Monolayer pâ€n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency. Advanced Materials, 2017, 29, 1701168.	21.0	111
341	From Linear Molecular Chains to Extended Polycyclic Networks: Polymerization of Dicyanoacetylene. Chemistry of Materials, 2017, 29, 6706-6718.	6.7	9
342	In situ structural modification of graphitic carbon nitride by alkali halides and influence on photocatalytic activity. RSC Advances, 2017, 7, 32592-32600.	3.6	44
343	Tuning the Photocatalytic Activity of Graphitic Carbon Nitride by Plasma-Based Surface Modification. ACS Applied Materials & Interfaces, 2017, 9, 24616-24624.	8.0	73
344	Recent progress on mixed-anion type visible-light induced photocatalysts. Science China Technological Sciences, 2017, 60, 1447-1457.	4.0	18
345	Easy dispersion and excellent visible-light photocatalytic activity of the ultrathin urea-derived g-C 3 N 4 nanosheets. Applied Surface Science, 2017, 425, 535-546.	6.1	63
346	Interlayer interaction in ultrathin nanosheets of graphitic carbon nitride for efficient photocatalytic hydrogen evolution. Journal of Catalysis, 2017, 352, 491-497.	6.2	92
347	Graphenes as additives in photoelectrocatalysis. Journal of Materials Chemistry A, 2017, 5, 16522-16536.	10.3	23

#	Article	IF	CITATIONS
348	A direct Z-scheme g-C3N4/SnS2 photocatalyst with superior visible-light CO2 reduction performance. Journal of Catalysis, 2017, 352, 532-541.	6.2	721
349	Recent advances in functional mesoporous graphitic carbon nitride (mpg-C ₃ N ₄) polymers. Nanoscale, 2017, 9, 10544-10578.	5.6	189
350	Ni ₁₂ P ₅ nanoparticles embedded into porous g-C ₃ N ₄ nanosheets as a noble-metal-free hetero-structure photocatalyst for efficient H ₂ production under visible light. Journal of Materials Chemistry A, 2017, 5, 16171-16178.	10.3	183
351	Microwave-assisted synthesis of ZnIn2S4/g-C3N4 heterojunction photocatalysts for efficient visible light photocatalytic hydrogen evolution. Catalysis Communications, 2017, 100, 173-177.	3.3	35
352	Construction of mesoporous carbon nitride/binary metal sulfide heterojunction photocatalysts for enhanced degradation of pollution under visible light. Applied Catalysis B: Environmental, 2017, 218, 545-554.	20.2	109
353	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H ₂ Evolution and CO ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2017, 5, 7260-7268.	6.7	322
354	Design of Metastable Tin Titanium Nitride Semiconductor Alloys. Chemistry of Materials, 2017, 29, 6511-6517.	6.7	27
355	Controllable Synthesis of Mesoporous Sulfur-Doped Carbon Nitride Materials for Enhanced Visible Light Photocatalytic Degradation. Langmuir, 2017, 33, 7062-7078.	3.5	119
356	Chemical-bond conjugated BiO(OH)xl1-x-Agl heterojunction with high visible light activity and stability in degradation of pollutants. Applied Catalysis B: Environmental, 2017, 218, 443-451.	20.2	27
357	A Spatially Separated Organic–Inorganic Hybrid Photoelectrochemical Cell for Unassisted Overall Water Splitting. ACS Catalysis, 2017, 7, 5308-5315.	11.2	33
358	Constructing Z-scheme charge separation in 2D layered porous BiOBr/graphitic C3N4 nanosheets nanojunction with enhanced photocatalytic activity. Journal of Alloys and Compounds, 2017, 723, 1121-1131.	5.5	113
359	Urea-derived graphitic carbon nitride (u-g-C3N4) films with highly enhanced antimicrobial and sporicidal activity. Journal of Colloid and Interface Science, 2017, 505, 910-918.	9.4	64
360	Hydrogen production in the electrolysis of water in Brazil, a review. Renewable and Sustainable Energy Reviews, 2017, 68, 563-571.	16.4	126
361	Nanosheet-based printable perovskite solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 518-525.	6.2	45
362	Molybdenum carbide as alternative catalyst for hydrogen production – A review. Renewable and Sustainable Energy Reviews, 2017, 75, 1101-1129.	16.4	198
363	Microwave-assisted molten-salt rapid synthesis of isotype triazine-/heptazine based g-C3N4 heterojunctions with highly enhanced photocatalytic hydrogen evolution performance. Applied Catalysis B: Environmental, 2017, 203, 300-313.	20.2	312
364	Activation of biologically relevant levels of reactive oxygen species by Au/g-C3N4 hybrid nanozyme for bacteria killing and wound disinfection. Biomaterials, 2017, 113, 145-157.	11.4	318
365	Effect of exfoliation and surface deposition of MnOx species in g-C3N4: Toluene photo-degradation under UV and visible light. Applied Catalysis B: Environmental, 2017, 203, 663-672.	20.2	43

#	ARTICLE	IF	CITATIONS
366	Template Free Preparation of Heteroatoms Doped Carbon Spheres with Trace Fe for Efficient Oxygen Reduction Reaction and Supercapacitor. Advanced Energy Materials, 2017, 7, 1602002.	19.5	160
367	Co ₃ O ₄ –C ₃ N ₄ p–n nano-heterojunctions for the simultaneous degradation of a mixture of pollutants under solar irradiation. Environmental Science: Nano, 2017, 4, 212-221.	4.3	127
368	Mesoporous Carbon Materials with Functional Compositions. Chemistry - A European Journal, 2017, 23, 1986-1998.	3.3	56
369	In situ Ni-doping during cathodic electrodeposition of hematite for excellent photoelectrochemical performance of nanostructured nickel oxide-hematite p-n junction photoanode. Applied Surface Science, 2017, 392, 144-152.	6.1	52
370	Comparison of modification strategies towards enhanced charge carrier separation and photocatalytic degradation activity of metal oxide semiconductors (TiO 2 , WO 3 and ZnO). Applied Surface Science, 2017, 391, 124-148.	6.1	615
371	Bandgap engineering of ultrathin graphene-like carbon nitride nanosheets with controllable oxygenous functionalization. Carbon, 2017, 113, 63-75.	10.3	109
372	Self-assembly of urchin-like porphyrin/graphene microspheres for artificial photosynthetic production of formic acid from CO ₂ . Journal of Materials Chemistry A, 2017, 5, 155-164.	10.3	16
373	A surface modification resultant thermally oxidized porous g-C3N4 with enhanced photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2017, 204, 335-345.	20.2	295
374	Photoelectrocatalytic degradation of phenol-containing wastewater by TiO2/g-C3N4 hybrid heterostructure thin film. Applied Catalysis B: Environmental, 2017, 201, 600-606.	20.2	258
375	Photocatalytic reduction of CO 2 with H 2 O over graphene oxide-supported oxygen-rich TiO 2 hybrid photocatalyst under visible light irradiation: Process and kinetic studies. Chemical Engineering Journal, 2017, 308, 248-255.	12.7	141
376	Surface modification and enhanced photocatalytic CO2 reduction performance of TiO2: a review. Applied Surface Science, 2017, 392, 658-686.	6.1	989
377	Recent progress in Ag3PO4-based all-solid-state Z-scheme photocatalytic systems. Chinese Journal of Catalysis, 2017, 38, 1794-1803.	14.0	41
378	Construction of Z-scheme Ag3PO4/Bi2WO6 composite with excellent visible-light photodegradation activity for removal of organic contaminants. Chinese Journal of Catalysis, 2017, 38, 2021-2029.	14.0	117
379	A comparison study of alkali metal-doped g-C3N4 for visible-light photocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2017, 38, 1981-1989.	14.0	244
380	Carbon Nanodots as Dual-Mode Nanosensors for Selective Detection of Hydrogen Peroxide. Nanoscale Research Letters, 2017, 12, 447.	5.7	54
381	Wet-Chemical Preparation of TiO2-Based Composites with Different Morphologies and Photocatalytic Properties. Nanomaterials, 2017, 7, 310.	4.1	53
382	Direct Growth of CuO Nanorods on Graphitic Carbon Nitride with Synergistic Effect on Thermal Decomposition of Ammonium Perchlorate. Materials, 2017, 10, 484.	2.9	28
383	Rapid Screening of Graphitic Carbon Nitrides for Photocatalytic Cofactor Regeneration Using a Drop Reactor. Micromachines, 2017, 8, 175.	2.9	13

#	Article	IF	CITATIONS
384	Photocatalytic Membrane Reactors (PMRs) in Water Treatment: Configurations and Influencing Factors. Catalysts, 2017, 7, 224.	3.5	125
385	2D/2D Graphitic Carbon Nitride (g-C3N4) Heterojunction Nanocomposites for Photocatalysis: Why Does Face-to-Face Interface Matter?. Frontiers in Materials, 2017, 4, .	2.4	201
386	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. Beilstein Journal of Nanotechnology, 2017, 8, 1571-1600.	2.8	119
387	Photocatalysts Based on Graphitic Carbon Nitride: Some Prospects for Artificial Photosynthesis and the Remediation of Environmental Pollution. Science Progress, 2017, 100, 400-410.	1.9	8
388	Ultrasmall CoO(OH) _{<i>x</i>} Nanoparticles As a Highly Efficient "True―Cocatalyst in Porous Photoanodes for Water Splitting. ACS Catalysis, 2017, 7, 4759-4767.	11.2	50
389	Post-activation of in situ B F codoped g-C3N4 for enhanced photocatalytic H2 evolution. Applied Surface Science, 2018, 441, 621-630.	6.1	33
390	Bimetallic Ag–Cu Supported on Graphitic Carbon Nitride Nanotubes for Improved Visible-Light Photocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 9468-9477.	8.0	103
391	Microwave modification of surface hydroxyl density for g-C ₃ N ₄ with enhanced photocatalytic activity. Materials Research Express, 2018, 5, 035502.	1.6	6
392	Preparation of Ag@AgCl/g-C3N4/TiO2 porous ceramic films with enhanced photocatalysis performance and self-cleaning effect. Ceramics International, 2018, 44, 9326-9337.	4.8	31
393	Enhanced photocatalytic activity of Bi12O17Cl2 nano-sheets via surface modification of carbon nanotubes as electron carriers. Journal of Colloid and Interface Science, 2018, 519, 1-10.	9.4	90
394	The effect of metallic Fe(<scp>ii</scp>) and nonmetallic S codoping on the photocatalytic performance of graphitic carbon nitride. RSC Advances, 2018, 8, 7558-7568.	3.6	27
395	Density functional theory study on the stability, electronic structure and absorption spectrum of small size g-C3N4 quantum dots. Computational Materials Science, 2018, 148, 149-156.	3.0	14
396	Novel ternary g-C3N4/Ag3VO4/AgBr nanocomposites with excellent visible-light-driven photocatalytic performance for environmental applications. Solid State Sciences, 2018, 78, 133-143.	3.2	32
397	Crystalline carbon nitride semiconductors prepared at different temperatures for photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2018, 231, 234-241.	20.2	227
398	Fluorescein-sensitized Au/g-C3N4 nanocomposite for enhanced photocatalytic hydrogen evolution under visible light. Materials Research Bulletin, 2018, 102, 362-368.	5.2	56
399	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. Chemical Society Reviews, 2018, 47, 2298-2321.	38.1	488
400	Synthesis of ultrathin two-dimensional organic–inorganic hybrid perovskite nanosheets for polymer field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 3945-3950.	5.5	36
401	Metalâ€Free Dehydrogenation of Nâ€Heterocycles by Ternary <i>h</i> â€BCN Nanosheets with Visible Light. Angewandte Chemie - International Edition, 2018, 57, 5487-5491.	13.8	146

#	Article	IF	CITATIONS
402	Visible light active 2D C ₃ N ₄ -CdS hetero-junction photocatalyst for effective removal of azo dye by photodegradation. Materials Research Express, 2018, 5, 036202.	1.6	9
403	Photophysics and Photocatalysis of Melem: A Spectroscopic Reinvestigation. Chemistry - an Asian Journal, 2018, 13, 1060-1066.	3.3	33
404	TiO 2 nanoparticles and TiO 2 @graphene quantum dots nancomposites as effective visible/solar light photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 357, 90-102.	3.9	70
405	Self-assembled hierarchical carbon/g-C ₃ N ₄ composite with high photocatalytic activity. Journal Physics D: Applied Physics, 2018, 51, 135501.	2.8	12
406	Highly Crystalline Carbon Nitride Nanosheets for Ultrahigh Photocatalytic Hydrogen Evolution. ChemPhotoChem, 2018, 2, 490-497.	3.0	15
407	Effect of Interface Contact Between C and C3N4 on Photocatalytic Water Splitting. Catalysis Letters, 2018, 148, 1435-1444.	2.6	5
408	Deposition of CuWO 4 nanoparticles over g-C 3 N 4 /Fe 3 O 4 nanocomposite: Novel magnetic photocatalysts with drastically enhanced performance under visible-light. Advanced Powder Technology, 2018, 29, 1379-1392.	4.1	97
409	CdSe nanoparticle-sensitized ZnO sheets for enhanced photocatalytic hydrogen evolution rates. Journal of Alloys and Compounds, 2018, 747, 826-833.	5.5	36
410	Fabrication of CdS/BiOI heterostructure with enhanced photocatalytic performance under visible-light irradiation. Materials Letters, 2018, 218, 5-9.	2.6	14
411	Layered MoSe2/Bi2WO6 composite with P-N heterojunctions as a promising visible-light induced photocatalyst. Applied Surface Science, 2018, 444, 320-329.	6.1	76
412	Nanocomposite of Ni–Tiâ€layered double hydroxide and graphene for enhanced visâ€light photocatalysis. Micro and Nano Letters, 2018, 13, 127-130.	1.3	3
413	Enhanced photocatalytic property of hybrid graphitic C3N4 and graphitic ZnO nanocomposite: the effects of interface and doping. Journal of Physics Condensed Matter, 2018, 30, 175001.	1.8	17
414	Exploring the formation and electronic structure properties of the g-C ₃ N ₄ nanoribbon with density functional theory. Journal of Physics Condensed Matter, 2018, 30, 155303.	1.8	11
415	Metalâ€Free Dehydrogenation of Nâ€Heterocycles by Ternary <i>h</i> â€BCN Nanosheets with Visible Light. Angewandte Chemie, 2018, 130, 5585-5589.	2.0	40
416	Autonomous self-healing supramolecular elastomer reinforced and toughened by graphitic carbon nitride nanosheets tailored for smart anticorrosion coating applications. Journal of Materials Chemistry A, 2018, 6, 5887-5898.	10.3	129
417	Solar energy conversion on g-C3N4 photocatalyst: Light harvesting, charge separation, and surface kinetics. Journal of Energy Chemistry, 2018, 27, 1111-1123.	12.9	144
418	NOTâ€INHIBIT Reversible Logic Gate Behavior of g ₃ N ₄ â€Hg ²⁺ omplexed Nanoparticles. ChemistrySelect, 2018, 3, 2096-2102.	1.5	3
419	Porous graphitic carbon nitride nanosheets by pre-polymerization for enhanced photocatalysis. Materials Characterization, 2018, 139, 89-99.	4.4	61

#	Article	IF	CITATIONS
420	A selective ion replacement strategy for the synthesis of copper doped carbon nitride nanotubes with improved photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 234, 19-25.	20.2	61
421	Cu-Al2O3-g-C3N4 and Cu-Al2O3-C-dots with dual-reaction centres for simultaneous enhancement of Fenton-like catalytic activity and selective H2O2 conversion to hydroxyl radicals. Applied Catalysis B: Environmental, 2018, 234, 223-233.	20.2	155
422	g-C ₃ N ₄ /Ti ₃ C ₂ T _x (MXenes) composite with oxidized surface groups for efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 9124-9131.	10.3	233
423	Mechanistic insights into 4-nitrophenol degradation and benzyl alcohol oxidation pathways over MgO/g-C ₃ N ₄ model catalyst systems. Catalysis Science and Technology, 2018, 8, 2825-2834.	4.1	44
425	Mesocrystalline Ta2O5 nanosheets supported Pd Pt nanoparticles for efficient photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2018, 43, 8232-8242.	7.1	22
426	Synthesis of environmentally encouraged, highly robust pollutants reduction 3-D system consisting of Ag/g-C3N4 and Cu-complex to degrade refractory pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 826-836.	3.9	34
427	Unprecedented Centimeter‣ong Carbon Nitride Needles: Synthesis, Characterization and Applications. Small, 2018, 14, e1800633.	10.0	64
428	Enhanced photoelectrochemical performance of Z-scheme g-C3N4/BiVO4 photocatalyst. Applied Catalysis B: Environmental, 2018, 234, 296-310.	20.2	301
429	Flexible electrospun MWCNTs/Ag3PO4/PAN ternary composite fiber membranes with enhanced photocatalytic activity and stability under visible-light irradiation. Journal of Materials Science, 2018, 53, 10147-10159.	3.7	20
430	Recent progress in ultrathin two-dimensional semiconductors for photocatalysis. Materials Science and Engineering Reports, 2018, 130, 1-39.	31.8	116
431	Enhanced hydrogen photogeneration by bulk g-C ₃ N ₄ through a simple and efficient oxidation route. Dalton Transactions, 2018, 47, 6772-6778.	3.3	18
432	One-pot annealing preparation of Na-doped graphitic carbon nitride from melamine and organometallic sodium salt for enhanced photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2018, 43, 13953-13961.	7.1	49
433	Graphene oxide membranes: Functional structures, preparation and environmental applications. Nano Today, 2018, 20, 121-137.	11.9	156
434	Tailoring TiO ₂ Nanotubeâ€Interlaced Graphite Carbon Nitride Nanosheets for Improving Visibleâ€Lightâ€Driven Photocatalytic Performance. Advanced Science, 2018, 5, 1700844.	11.2	66
435	Construction of Eu2 O3 /g-C3 N4 Redox Heterojunctions Containing Eu3+ /Eu2+ Self-Redox Centers for Boosted Visible-Light Photocatalytic Activity. European Journal of Inorganic Chemistry, 2018, 2018, 2564-2573.	2.0	12
436	An amorphous/crystalline g-C ₃ N ₄ homojunction for visible light photocatalysis reactions with superior activity. Chemical Communications, 2018, 54, 4720-4723.	4.1	107
437	Ruthenium(II)â^'Bipyridine/NanoC ₃ N ₄ Hybrids: Tunable Photochemical Properties by Using Exchangeable Alkali Metal Cations. Chemistry - an Asian Journal, 2018, 13, 1348-1356.	3.3	10
438	Cold/monolayer graphitic carbon nitride plasmonic photocatalyst for ultrafast electron transfer in solar-to-hydrogen energy conversion. Chinese Journal of Catalysis, 2018, 39, 760-770.	14.0	36

#	Article	IF	CITATIONS
439	Sulfur- and Carbon-Codoped Carbon Nitride for Photocatalytic Hydrogen Evolution Performance Improvement. ACS Sustainable Chemistry and Engineering, 2018, 6, 7346-7354.	6.7	47
440	Carbon Quantum Dot Implanted Graphite Carbon Nitride Nanotubes: Excellent Charge Separation and Enhanced Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2018, 130, 5867-5873.	2.0	69
441	Carbon Quantum Dot Implanted Graphite Carbon Nitride Nanotubes: Excellent Charge Separation and Enhanced Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 5765-5771.	13.8	372
442	Visible-Light-Driven Photoreduction of CO ₂ to CH ₄ over N,O,P-Containing Covalent Organic Polymer Submicrospheres. ACS Catalysis, 2018, 8, 4576-4581.	11.2	99
443	Design of graphitic carbon nitride nanowires with captured mesoporous carbon spheres for EDLC electrode materials. Ionics, 2018, 24, 3957-3965.	2.4	24
444	Using of g-C 3 N 4 nanosheets for the highly efficient scavenging of heavy metals at environmental relevant concentrations. Journal of Molecular Liquids, 2018, 261, 32-40.	4.9	29
445	Laminated Hybrid Junction of Sulfurâ€Doped TiO ₂ and a Carbon Substrate Derived from Ti ₃ C ₂ MXenes: Toward Highly Visible Lightâ€Driven Photocatalytic Hydrogen Evolution. Advanced Science, 2018, 5, 1700870.	11.2	163
446	Defect-rich (Co–CoS ₂) _x @Co ₉ S ₈ nanosheets derived from monomolecular precursor pyrolysis with excellent catalytic activity for hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 7977-7987.	10.3	46
447	Enhanced visible light photocatalytic activity of g-C3N4assisted by hydrogen peroxide. Materials Research Express, 2018, 5, 046203.	1.6	2
448	Density functional theory study on the effects of oxygen groups on band gap tuning of graphitic carbon nitrides for possible photocatalytic applications. Sustainable Materials and Technologies, 2018, 16, 12-22.	3.3	33
449	Polymeric Carbon Nitride with Localized Aluminum Coordination Sites as a Durable and Efficient Photocatalyst for Visible Light Utilization. ACS Catalysis, 2018, 8, 4241-4256.	11.2	118
450	A New Synthesis Approach for Carbon Nitrides: Poly(triazine imide) and Its Photocatalytic Properties. ACS Omega, 2018, 3, 3892-3900.	3.5	37
451	Graphitic carbon nitride nanosheet wrapped mesoporous titanium dioxide for enhanced photoelectrocatalytic water splitting. Catalysis Today, 2018, 315, 103-109.	4.4	53
452	Graphitic carbon nitride nanosheets coupled with carbon dots and BiOI nanoparticles: Boosting visible-light-driven photocatalytic activity. Journal of the Taiwan Institute of Chemical Engineers, 2018, 87, 98-111.	5.3	118
453	Photocatalytic degradation of oilfield produced water using graphitic carbon nitride embedded in electrospun polyacrylonitrile nanofibers. Chemosphere, 2018, 204, 79-86.	8.2	51
454	In-situ loading of (BiO)2CO3 on g-C3N4 with promoted solar-driven photocatalytic performance originated from a direct Z-scheme mechanism. Materials Science in Semiconductor Processing, 2018, 82, 97-103.	4.0	24
455	Loading sulfur and nitrogen co-doped carbon dots onto g-C ₃ N ₄ nanosheets for an efficient photocatalytic reduction of 4-nitrophenol. Dalton Transactions, 2018, 47, 6435-6443.	3.3	22
456	Stable 1T-phase MoS ₂ as an effective electron mediator promoting photocatalytic hydrogen production. Nanoscale, 2018, 10, 9292-9303.	5.6	60

#	Article	IF	CITATIONS
457	Novel Cu3P/g-C3N4 p-n heterojunction photocatalysts for solar hydrogen generation. Science China Materials, 2018, 61, 861-868.	6.3	84
458	ZnO-graphene quantum dots heterojunctions for natural sunlight-driven photocatalytic environmental remediation. Applied Surface Science, 2018, 447, 802-815.	6.1	123
459	A facile and scalable route for synthesizing ultrathin carbon nitride nanosheets with efficient solar hydrogen evolution. Carbon, 2018, 136, 160-167.	10.3	33
460	Enhancing photocatalytic performance by constructing ultrafine TiO2 nanorods/g-C3N4 nanosheets heterojunction for water treatment. Science Bulletin, 2018, 63, 683-690.	9.0	56
461	Efficient visible light-driven water oxidation and proton reduction by an ordered covalent triazine-based framework. Energy and Environmental Science, 2018, 11, 1617-1624.	30.8	212
462	Sunlightâ€Driven Hydrogen Production Using an Annular Flow Photoreactor and g ₃ N ₄ â€Based Catalysts. ChemPhotoChem, 2018, 2, 870-877.	3.0	20
463	Photocatalytic Cleavage of C–C Bond in Lignin Models under Visible Light on Mesoporous Graphitic Carbon Nitride through π–π Stacking Interaction. ACS Catalysis, 2018, 8, 4761-4771.	11.2	205
464	Band structure engineering and efficient charge transport in oxygen substituted g-C3N4 for superior photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 230, 115-124.	20.2	143
465	Polyoxometalates covalently combined with graphitic carbon nitride for photocatalytic hydrogen peroxide production. Catalysis Science and Technology, 2018, 8, 1686-1695.	4.1	70
466	Petal-like CdS nanostructures coated with exfoliated sulfur-doped carbon nitride via chemically activated chain termination for enhanced visible-light–driven photocatalytic water purification and H2 generation. Applied Catalysis B: Environmental, 2018, 229, 181-191.	20.2	156
467	Tetracyanomethane under Pressure: Extended CN Polymers from Precursors with Built-in sp ³ Centers. Journal of Physical Chemistry A, 2018, 122, 2858-2863.	2.5	14
468	Facile two-step treatment of carbon nitride for preparation of highly efficient visible-light photocatalyst. Applied Catalysis B: Environmental, 2018, 227, 541-547.	20.2	19
469	Effect of sacrificial agents on the dispersion of metal cocatalysts for photocatalytic hydrogen evolution. Applied Surface Science, 2018, 442, 361-367.	6.1	33
470	Facile fabrication of nanosized graphitic carbon nitride sheets with efficient charge separation for mitigation of toxic pollutant. Chemical Engineering Journal, 2018, 342, 30-40.	12.7	47
471	Influence of metal-porphyrins on the photocatalysis of graphitic carbon nitride. Dyes and Pigments, 2018, 153, 241-247.	3.7	60
472	Nitrogen-doped carbon dots decorated on g-C3N4/Ag3PO4 photocatalyst with improved visible light photocatalytic activity and mechanism insight. Applied Catalysis B: Environmental, 2018, 227, 459-469.	20.2	258
473	Photocatalytic cyanation of carbon nitride scaffolds: Tuning band structure and enhancing the performance in green light driven C S bond formation. Applied Catalysis B: Environmental, 2018, 229, 249-253.	20.2	48
474	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. Chemical Reviews, 2018, 118, 1951-2009.	47.7	598

#	Article	IF	CITATIONS
475	WS ₂ /Graphitic Carbon Nitride Heterojunction Nanosheets Decorated with CdS Quantum Dots for Photocatalytic Hydrogen Production. ChemSusChem, 2018, 11, 1187-1197.	6.8	129
476	In-situ synthesis of direct solid-state dual Z-scheme WO3/g-C3N4/Bi2O3 photocatalyst for the degradation of refractory pollutant. Applied Catalysis B: Environmental, 2018, 227, 376-385.	20.2	495
477	Consciously Constructing Heterojunction or Direct Z-Scheme Photocatalysts by Regulating Electron Flow Direction. ACS Catalysis, 2018, 8, 2209-2217.	11.2	298
479	Gold lusterâ€Based Dualâ€Emission Nanocomposite Film as Ratiometric Fluorescent Sensing Paper for Specific Metal Ion. Particle and Particle Systems Characterization, 2018, 35, 1700471.	2.3	19
480	Bimetallic Au-Pd nanoparticles on 2D supported graphitic carbon nitride and reduced graphene oxide sheets: A comparative photocatalytic degradation study of organic pollutants in water. Chemosphere, 2018, 197, 817-829.	8.2	46
481	Review on the criteria anticipated for the fabrication of highly efficient ZnO-based visible-light-driven photocatalysts. Journal of Industrial and Engineering Chemistry, 2018, 62, 1-25.	5.8	697
482	Construction of hybrid Ag2CO3/AgVO3 nanowires with enhanced visible light photocatalytic activity. Materials Research Bulletin, 2018, 101, 246-252.	5.2	23
483	Bimetal-organic frameworks derived carbon doped ZnO/Co 3 O 4 heterojunction as visible-light stabilized photocatalysts. Materials Science in Semiconductor Processing, 2018, 79, 24-31.	4.0	20
484	Development of graphite carbon nitride based fluorescent immune sensor for detection of alpha fetoprotein. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 196, 103-109.	3.9	19
485	Highly efficient pollutant removal of graphitic carbon nitride by the synergistic effect of adsorption and photocatalytic degradation. RSC Advances, 2018, 8, 7260-7268.	3.6	25
486	Nickel doped graphitic carbon nitride nanosheets and its application for dye degradation by chemical catalysis. Materials Research Bulletin, 2018, 101, 291-304.	5.2	66
487	Constructing 2D/2D Fe ₂ O ₃ /gâ€C ₃ N ₄ Direct Zâ€5cheme Photocatalysts with Enhanced H ₂ Generation Performance. Solar Rrl, 2018, 2, 1800006.	5.8	403
488	Fabrication and Photocatalytic Application of Aromatic Ring Functionalized Melem Oligomers. Journal of Physical Chemistry C, 2018, 122, 3506-3512.	3.1	16
489	Artificial Photosynthesis: Taking a Big Leap for Powering the Earth by Harnessing Solar Energy. Particle and Particle Systems Characterization, 2018, 35, 1700451.	2.3	10
490	Nanoarchitectonics from Molecular Units to Living reatureâ€Like Motifs. Chemical Record, 2018, 18, 676-695.	5.8	32
491	Magnetically separable and recyclable g-C3N4 nanocomposite catalyzed one-pot synthesis of substituted imidazoles. Journal of the Iranian Chemical Society, 2018, 15, 855-862.	2.2	24
492	Peering into water splitting mechanism of g-C3N4-carbon dots metal-free photocatalyst. Applied Catalysis B: Environmental, 2018, 227, 418-424.	20.2	126
493	Superstructure Ta ₂ O ₅ mesocrystals derived from (NH ₄) ₂ Ta ₂ O ₃ F ₆ mesocrystals with efficient photocatalytic activity. Dalton Transactions, 2018, 47, 1948-1957.	3.3	21

#	Article	IF	Citations
494	Template-Free Synthesis of Hollow G-C ₃ N ₄ Polymer with Vesicle Structure for Enhanced Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2018, 122, 3786-3793.	3.1	55
495	Creating Graphitic Carbon Nitride Based Donorâ€i̇́€â€"Acceptorâ€i̇́€â€"Donor Structured Catalysts for Highly Photocatalytic Hydrogen Evolution. Small, 2018, 14, e1703599.	10.0	100
496	One-pot hydrothermal synthesis of g-C3N4/Ag/AgCl/BiVO4 micro-flower composite for the visible light degradation of ibuprofen. Chemical Engineering Journal, 2018, 341, 248-261.	12.7	95
497	Highly Efficient Visible Light Active 2Dâ€2D Nanocomposites of Nâ€ZnOâ€gâ€C ₃ N ₄ fc Photocatalytic Degradation of Diverse Industrial Pollutants. ChemistrySelect, 2018, 3, 1919-1932.	^{or} 1.5	84
498	Ordered layered N-doped KTiNbO5/g-C3N4 heterojunction with enhanced visible light photocatalytic activity. Applied Catalysis B: Environmental, 2018, 228, 54-63.	20.2	117
499	Fabrication of carbon bridged g-C3N4 through supramolecular self-assembly for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 229, 114-120.	20.2	128
500	Convenient synthesis and engineering of ultrafine Co ₃ O ₄ -incorporated carbon composite: towards practical application of environmental remediation. Journal of Materials Chemistry A, 2018, 6, 3454-3461.	10.3	70
501	Tunable dipole and carrier mobility for a few layer Janus MoSSe structure. Journal of Materials Chemistry C, 2018, 6, 1693-1700.	5.5	164
502	The roles of buckled geometry and water environment in the excitonic properties of graphitic C ₃ N ₄ . Nanoscale, 2018, 10, 3738-3743.	5.6	17
503	Clayâ€Inspired MXeneâ€Based Electrochemical Devices and Photoâ€Electrocatalyst: Stateâ€ofâ€theâ€Art Progresses and Challenges. Advanced Materials, 2018, 30, e1704561.	21.0	431
504	Metalâ€Free 2D/2D Heterojunction of Graphitic Carbon Nitride/Graphdiyne for Improving the Hole Mobility of Graphitic Carbon Nitride. Advanced Energy Materials, 2018, 8, 1702992.	19.5	200
505	Facile "Spotâ€Heating―Synthesis of Carbon Dots/Carbon Nitride for Solar Hydrogen Evolution Synchronously with Contaminant Decomposition. Advanced Functional Materials, 2018, 28, 1706462.	14.9	121
506	Engineering oxygen-containing and amino groups into two-dimensional atomically-thin porous polymeric carbon nitrogen for enhanced photocatalytic hydrogen production. Energy and Environmental Science, 2018, 11, 566-571.	30.8	304
507	Au/TiO ₂ –gC ₃ N ₄ Nanocomposites for Enhanced Photocatalytic H ₂ Production from Water under Visible Light Irradiation with Very Low Quantities of Sacrificial Agents. Advanced Energy Materials, 2018, 8, 1702142.	19.5	163
508	Heterojunction of <i>g</i> -C3N4/BiOI Immobilized on Flexible Electrospun Polyacrylonitrile Nanofibers: Facile Preparation and Enhanced Visible Photocatalytic Activity for Floating Photocatalysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 2316-2323.	6.7	132
509	Co ₂ P Nanorods as an Efficient Cocatalyst Decorated Porous gâ€C ₃ N ₄ Nanosheets for Photocatalytic Hydrogen Production under Visible Light Irradiation. Particle and Particle Systems Characterization, 2018, 35, 1700251.	2.3	69
510	A self-powered sensor based on molecularly imprinted polymer-coupled graphitic carbon nitride photoanode for selective detection of bisphenol A. Sensors and Actuators B: Chemical, 2018, 259, 394-401.	7.8	53
511	Carbon, nitrogen and phosphorus containing metal-free photocatalysts for hydrogen production: progress and challenges. Journal of Materials Chemistry A, 2018, 6, 1305-1322.	10.3	144

#	Article	IF	CITATIONS
512	Magnetically separable gâ€C ₃ N ₄ hybrid nanocomposite: Highly efficient and ecoâ€friendly recyclable catalyst for oneâ€pot synthesis of αâ€aminonitriles. Applied Organometallic Chemistry, 2018, 32, e4188.	3.5	10
513	Hydrothermally Induced Oxygen Doping of Graphitic Carbon Nitride with a Highly Ordered Architecture and Enhanced Photocatalytic Activity. ChemSusChem, 2018, 11, 700-708.	6.8	96
514	g-C ₃ N ₄ /NiAl-LDH 2D/2D Hybrid Heterojunction for High-Performance Photocatalytic Reduction of CO ₂ into Renewable Fuels. ACS Applied Materials & Interfaces, 2018, 10, 2667-2678.	8.0	438
515	Tuning the band gap and the nitrogen content in carbon nitride materials by high temperature treatment at high pressure. Carbon, 2018, 130, 170-177.	10.3	29
516	Graphene Quantumâ€Dotâ€Modified Hexagonal Tubular Carbon Nitride for Visibleâ€Light Photocatalytic Hydrogen Evolution. ChemCatChem, 2018, 10, 1330-1335.	3.7	95
517	Facile One-Pot Two-Step Synthesis of Novel in Situ Selenium-Doped Carbon Nitride Nanosheet Photocatalysts for Highly Enhanced Solar Fuel Production from CO ₂ . ACS Applied Nano Materials, 2018, 1, 47-54.	5.0	62
518	Porous defect-modified graphitic carbon nitride via a facile one-step approach with significantly enhanced photocatalytic hydrogen evolution under visible light irradiation. Applied Catalysis B: Environmental, 2018, 226, 1-9.	20.2	292
519	Heteroatoms binary-doped hierarchical porous g-C3N4 nanobelts for remarkably enhanced visible-light-driven hydrogen evolution. Applied Catalysis B: Environmental, 2018, 226, 61-70.	20.2	135
520	Interfacial Synthesis of Conjugated Two-Dimensional N-Graphdiyne. ACS Applied Materials & Interfaces, 2018, 10, 53-58.	8.0	124
521	Microwave-assisted one-step rapid synthesis of ternary Ag/Ag2S/g-C3N4 heterojunction photocatalysts for improved visible-light induced photodegradation of organic pollutant. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 557-563.	3.9	31
522	Detection of cyanide by etching-induced electrochemiluminescence recovery. Electrochimica Acta, 2018, 261, 29-34.	5.2	19
523	Covalently bonded 2D/2D O-g-C3N4/TiO2 heterojunction for enhanced visible-light photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 237, 1130-1138.	20.2	129
524	Enhanced Charge Separation Efficiency Accelerates Hydrogen Evolution from Water of Carbon Nitride and 3,4,9,10-Perylene-tetracarboxylic Dianhydride Composite Photocatalyst. ACS Applied Materials & Interfaces, 2018, 10, 3515-3521.	8.0	35
525	Graphitic Carbon Nitride with S and Fe(III) Codoping for Improved Photodegradation Performance. Catalysis Letters, 2018, 148, 601-611.	2.6	23
526	Pd@HNTs-CDNS-g-C3N4: A novel heterogeneous catalyst for promoting ligand and copper-free Sonogashira and Heck coupling reactions, benefits from halloysite and cyclodextrin chemistry and g-C3N4 contribution to suppress Pd leaching. Carbohydrate Polymers, 2018, 186, 25-34.	10.2	113
527	Carbon-doped SnS2 nanostructure as a high-efficiency solar fuel catalyst under visible light. Nature Communications, 2018, 9, 169.	12.8	350
528	Strong base g-C3N4 with perfect structure for photocatalytically eliminating formaldehyde under visible-light irradiation. Applied Catalysis B: Environmental, 2018, 227, 145-152.	20.2	86
529	Visible light driven redox-mediator-free dual semiconductor photocatalytic systems for pollutant degradation and the ambiguity in applying Z-scheme concept. Applied Catalysis B: Environmental, 2018, 227, 296-311.	20.2	183

#	Article	IF	CITATIONS
530	Construction of an all-solid-state Z-scheme photocatalyst based on graphite carbon nitride and its enhancement to catalytic activity. Environmental Science: Nano, 2018, 5, 599-615.	4.3	174
531	High efficiency visible-light-driven Fe2O3-xS /S-doped g-C3N4 heterojunction photocatalysts: Direct Z-scheme mechanism. Journal of Materials Science and Technology, 2018, 34, 1511-1525.	10.7	107
532	Facet-dependent photocatalysis of nanosize semiconductive metal oxides and progress of their characterization. Nano Today, 2018, 18, 15-34.	11.9	99
533	Photoassisted Construction of Holey Defective g ₃ N ₄ Photocatalysts for Efficient Visibleâ€Lightâ€Driven H ₂ O ₂ Production. Small, 2018, 14, 1703142.	10.0	353
534	The improvement of photocatalytic activity of monolayer g-C3N4via surface charge transfer doping. RSC Advances, 2018, 8, 1899-1904.	3.6	19
535	Synthesis of g ₃ N ₄ /ZnGa _{1.9} Al _{0.1} O ₄ Heterojunction Using Narrow and Wide Band Gap Material for Enhanced Photoelectrochemical Water Splitting. ChemistrySelect, 2018, 3, 486-494.	1.5	7
536	Salt-assisted synthesis of 3D open porous g-C ₃ N ₄ decorated with cyano groups for photocatalytic hydrogen evolution. Nanoscale, 2018, 10, 3008-3013.	5.6	87
537	Plasmonic Ag nanoparticles decorated NiAl-layered double hydroxide/graphitic carbon nitride nanocomposites for efficient visible-light-driven photocatalytic removal of aqueous organic pollutants. Catalysis Today, 2018, 315, 213-222.	4.4	66
538	Effects of point defects on the magnetoelectronic structures of MXenes from first principles. Physical Chemistry Chemical Physics, 2018, 20, 4012-4019.	2.8	70
539	A Janus MoSSe monolayer: a potential wide solar-spectrum water-splitting photocatalyst with a low carrier recombination rate. Journal of Materials Chemistry A, 2018, 6, 2295-2301.	10.3	387
540	An ultra-sensitive electrochemical sensor based on 2D g-C3N4/CuO nanocomposites for dopamine detection. Carbon, 2018, 130, 652-663.	10.3	250
541	H ₂ Evolution with Covalent Organic Framework Photocatalysts. ACS Energy Letters, 2018, 3, 400-409.	17.4	318
542	Positive effects of phosphotungstic acid on the in-situ solid-state polymerization and visible light photocatalytic activity of polyimide-based photocatalyst. Applied Catalysis B: Environmental, 2018, 226, 487-498.	20.2	110
543	Promoting visible-light-induced photocatalytic degradation of tetracycline by an efficient and stable beta-Bi2O3@g-C3N4 core/shell nanocomposite. Chemical Engineering Journal, 2018, 338, 137-146.	12.7	272
544	Highly doped graphene with multi-dopants for high-capacity and ultrastable sodium-ion batteries. Energy Storage Materials, 2018, 13, 134-141.	18.0	98
545	Ultra-low-temperature growth of CdS quantum dots on g-C3N4 nanosheets and their photocatalytic performance. Dalton Transactions, 2018, 47, 1417-1421.	3.3	17
546	Enhanced visible photocatalytic activity of TiO2 hollow boxes modified by methionine for RhB degradation and NO oxidation. Chinese Journal of Catalysis, 2018, 39, 736-746.	14.0	43
547	Novel ternary g-C 3 N 4 /Fe 3 O 4 /MnWO 4 nanocomposites: Synthesis, characterization, and visible-light photocatalytic performance for environmental purposes. Journal of Materials Science and Technology, 2018, 34, 1638-1651.	10.7	80

#	Article	IF	CITATIONS
548	Incorporation and distribution of noble metal atoms in polyacrylonitrile colloidal particles using different polymerization strategies. Polymer, 2018, 145, 41-53.	3.8	3
549	Anchoring Ni ₂ P on the UiOâ€66â€NH ₂ /gâ€C ₃ N ₄ â€derived Câ€doped ZrO ₂ /gâ€C ₃ N ₄ Heterostructure: Highly Efficient Photocatalysts for H ₂ Production from Water Splitting. ChemCatChem, 2018, 10, 3327-3335.	3.7	49
550	Carbon nitride with electron storage property: Enhanced exciton dissociation for high-efficient photocatalysis. Applied Catalysis B: Environmental, 2018, 236, 99-106.	20.2	99
551	Cubic mesoporous Pd–WO ₃ loaded graphitic carbon nitride (g-CN) nanohybrids: highly sensitive and temperature dependent VOC sensors. Journal of Materials Chemistry A, 2018, 6, 10718-10730.	10.3	145
552	ZIF-derived CoP as a cocatalyst for enhanced photocatalytic H ₂ production activity of g-C ₃ N ₄ . Sustainable Energy and Fuels, 2018, 2, 1356-1361.	4.9	69
553	Ecofriendly Nanomaterials for Sustainable Photocatalytic Decontamination of Organics and Bacteria. , 2018, , 1-29.		2
554	Multifunctional g-C 3 N 4 /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. Applied Catalysis B: Environmental, 2018, 235, 17-25.	20.2	117
555	Graphitic carbon nitride embedded in hot-melt adhesive polyester and hydrophilic cellulose blend fibers for the efficient elimination of antibiotics under solar irradiation. Applied Surface Science, 2018, 453, 110-119.	6.1	21
556	Metalâ€Free 2D/2D Phosphorene/gâ€C ₃ N ₄ Van der Waals Heterojunction for Highly Enhanced Visibleâ€Light Photocatalytic H ₂ Production. Advanced Materials, 2018, 30, e1800128.	21.0	707
557	Embedding Carbon Nitride into a Covalent Organic Framework with Enhanced Photocatalysis Performance. Chemistry - an Asian Journal, 2018, 13, 1674-1677.	3.3	51
558	Synergetic combination of 1D-2D g-C3N4 heterojunction nanophotocatalyst for hydrogen production via water splitting under visible light irradiation. Renewable Energy, 2018, 127, 433-443.	8.9	46
559	Artificial photosynthesis by light absorption, charge separation, and multielectron catalysis. Chemical Communications, 2018, 54, 6554-6572.	4.1	42
560	Fabrication of graphitic-C3N4 quantum dots/graphene-InVO4 aerogel hybrids with enhanced photocatalytic NO removal under visible-light irradiation. Applied Catalysis B: Environmental, 2018, 236, 45-52.	20.2	97
561	Facile synthesis of highly reactive and stable Fe-doped g-C3N4 composites for peroxymonosulfate activation: A novel nonradical oxidation process. Journal of Hazardous Materials, 2018, 354, 63-71.	12.4	154
562	Band structure engineering of graphitic carbon nitride via Cu2+/Cu+ doping for enhanced visible light photoactivity. Materials Chemistry and Physics, 2018, 214, 482-488.	4.0	44
563	Ammonia-evaporation-induced construction of three-dimensional NiO/g-C 3 N 4 composite with enhanced adsorption and visible light-driven photocatalytic performance. Superlattices and Microstructures, 2018, 119, 122-133.	3.1	24
564	Preparation of an intelligent hydrogel sensor based on g-C ₃ N ₄ nanosheets for selective detection of Ag ⁺ . Journal of Macromolecular Science - Pure and Applied Chemistry, 2018, 55, 408-413.	2.2	23
565	Construction of hierarchical 2D-2D Zn3In2S6/fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. Applied Catalysis B: Environmental, 2018, 233, 58-69.	20.2	213

#	Article	IF	CITATIONS
566	Polycyclic aromatic compounds-modified graphitic carbon nitride for efficient visible-light-driven hydrogen evolution. Carbon, 2018, 134, 134-144.	10.3	126
567	Moderate Bacterial Etching Allows Scalable and Clean Delamination of g-C ₃ N ₄ with Enriched Unpaired Electrons for Highly Improved Photocatalytic Water Disinfection. ACS Applied Materials & Interfaces, 2018, 10, 13796-13804.	8.0	75
568	Halloysite-derived mesoporous g-C3N4 nanotubes for improved visible-light photocatalytic hydrogen evolution. Applied Clay Science, 2018, 158, 143-149.	5.2	55
569	Aptamer-based photoelectrochemical biosensor for antibiotic detection using ferrocene modified DNA as both aptamer and electron donor. Sensors and Actuators B: Chemical, 2018, 266, 514-521.	7.8	68
570	Adsorption of pollutant cations from their aqueous solutions on graphitic carbon nitride explored by density functional theory. Journal of Molecular Liquids, 2018, 260, 423-435.	4.9	18
571	Ag2CrO4/g-C3N4/graphene oxide ternary nanocomposite Z-scheme photocatalyst with enhanced CO2 reduction activity. Applied Catalysis B: Environmental, 2018, 231, 368-380.	20.2	469
572	Promoting Charge Separation in <i>g</i> -C ₃ N ₄ /Graphene/MoS ₂ Photocatalysts by Two-Dimensional Nanojunction for Enhanced Photocatalytic H ₂ Production. ACS Applied Energy Materials, 2018, 1, 1400-1407.	5.1	171
573	Metal-Organic Frameworks for Photocatalysis. Series on Chemistry, Energy and the Environment, 2018, , 519-580.	0.3	0
574	Enhanced visible light photocatalytic activity for g-C3N4/SnO2:Sb composites induced by Sb doping. Journal of Materials Science, 2018, 53, 9473-9485.	3.7	26
575	Construction of network-like and flower-like 2H-MoSe2 nanostructures coupled with porous g-C3N4 for noble-metal-free photocatalytic H2 evolution under visible light. Applied Catalysis B: Environmental, 2018, 233, 26-34.	20.2	147
576	Ultrathin g-C3N4 films supported on Attapulgite nanofibers with enhanced photocatalytic performance. Applied Surface Science, 2018, 440, 170-176.	6.1	52
577	Drastic promoting the visible photoreactivity of layered carbon nitride by polymerization of dicyandiamide at high pressure. Applied Catalysis B: Environmental, 2018, 232, 330-339.	20.2	123
578	Polymeric carbon nitride (C3N4) as heterogeneous photocatalyst for selective oxidation of alcohols to aldehydes. Catalysis Today, 2018, 315, 126-137.	4.4	60
579	Facile synthesis of Ti 3+ -TiO 2 mesocrystals for efficient visible-light photocatalysis. Journal of Physics and Chemistry of Solids, 2018, 119, 94-99.	4.0	15
580	Fabrication and interfacial electron transfer of ultrathin g-C3N4 nanosheet/TNT@CNTs ternary nanostructure heterojunction for high-efficiency visible-light-driven photocatalysis. Journal of Materials Science: Materials in Electronics, 2018, 29, 8673-8687.	2.2	9
581	Photocatalysis and self-cleaning from g-C3N4 coated cotton fabrics under sunlight irradiation. Chemical Physics Letters, 2018, 699, 146-154.	2.6	33
582	One-pot synthesis of porous g-C3N4 nanomaterials with different morphologies and their superior photocatalytic performance. Materials Research Bulletin, 2018, 102, 209-217.	5.2	21
583	Insights into Elevated-Temperature Photocatalytic Reduction of CO ₂ by H ₂ O. Journal of Physical Chemistry C, 2018, 122, 8045-8057.	3.1	33

#	Article	IF	CITATIONS
584	Tumor-Targeted Graphitic Carbon Nitride Nanoassembly for Activatable Two-Photon Fluorescence Imaging. Analytical Chemistry, 2018, 90, 4649-4656.	6.5	49
585	Facile synthesis of carbon-rich g-C3N4 by copolymerization of urea and tetracyanoethylene for photocatalytic degradation of Orange II. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 61-69.	3.9	34
586	Integration of NiWO4 and Fe3O4 with graphitic carbon nitride to fabricate novel magnetically recoverable visible-light-driven photocatalysts. Journal of Materials Science, 2018, 53, 9046-9063.	3.7	62
587	Improving the photocatalytic activity of graphitic carbon nitride by thermal treatment in a high-pressure hydrogen atmosphere. Progress in Natural Science: Materials International, 2018, 28, 183-188.	4.4	31
588	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. Chemical Reviews, 2018, 118, 6337-6408.	47.7	1,552
589	Passivated Codoping Can Improve the Solar-to-Hydrogen Efficiency of Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2018, 122, 7296-7302.	3.1	20
590	Ultrafast Charge Separation for Full Solar Spectrum-Activated Photocatalytic H ₂ Generation in a Black Phosphorus–Au–CdS Heterostructure. ACS Energy Letters, 2018, 3, 932-939.	17.4	122
591	A facile approach to fabricating carbonaceous material/g-C3N4 composites with superior photocatalytic activity. Catalysis Today, 2018, 315, 149-154.	4.4	24
592	Enhanced charge carrier separation of manganese(<scp>ii</scp>)-doped graphitic carbon nitride: formation of N–Mn bonds through redox reactions. Journal of Materials Chemistry A, 2018, 6, 6238-6243.	10.3	40
593	A facile dissolution strategy facilitated by H2SO4 to fabricate a 2D metal-free g-C3N4/rGO heterojunction for efficient photocatalytic H2 production. International Journal of Hydrogen Energy, 2018, 43, 7007-7019.	7.1	47
594	The p-n-type Bi5O7I-modified porous C3N4 nano-heterojunction for enhanced visible light photocatalysis. Journal of Alloys and Compounds, 2018, 747, 788-795.	5.5	45
595	Photocatalytic Activity of Phosphorene Derivatives: Coverage, Electronic, Optical, and Excitonic Properties. Journal of Physical Chemistry C, 2018, 122, 7194-7202.	3.1	9
596	Sn-Doped defect pyrochlore oxide KNbWO ₆ ·H ₂ O microcrystals and their photocatalytic reduction of CO ₂ . New Journal of Chemistry, 2018, 42, 5753-5758.	2.8	18
597	A study on structure, morphology, optical properties, and photocatalytic ability of SrTiO 3 /TiO 2 granular composites. Physica B: Condensed Matter, 2018, 532, 37-41.	2.7	6
598	Novel synthesis of PbBiO2Cl/BiOCl nanocomposite with enhanced visible-driven-light photocatalytic activity. Catalysis Today, 2018, 300, 112-123.	4.4	88
599	The Effects of Hydrogenation on Graphitic C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Activity. Particle and Particle Systems Characterization, 2018, 35, 1700038.	2.3	52
600	Influence of annealing temperature on physical properties and photocatalytic ability of g-C 3 N 4 nanosheets synthesized through urea polymerization in Ar atmosphere. Physica B: Condensed Matter, 2018, 532, 48-53.	2.7	20
601	Facile synthesis of Z-scheme BiVO 4 /porous graphite carbon nitride heterojunction for enhanced visible-light-driven photocatalyst. Applied Surface Science, 2018, 430, 595-602.	6.1	161

#	Article	IF	CITATIONS
602	Constructing effective photocatalytic purification system with P-introduced g-C 3 N 4 for elimination of UO 2 2+. Applied Surface Science, 2018, 430, 371-379.	6.1	62
603	Heteroatomâ€Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. ChemCatChem, 2018, 10, 62-123.	3.7	39
604	g-C3N4 based composite photocatalysts for photocatalytic CO2 reduction. Catalysis Today, 2018, 300, 160-172.	4.4	263
605	Photoassisted oxygen reduction reaction on mpg-C 3 N 4 : The effects of elements doping on the performance of ORR. Applied Surface Science, 2018, 430, 325-334.	6.1	24
606	Twoâ€Dimensional Layered Materials as Catalyst Supports. ChemNanoMat, 2018, 4, 28-40.	2.8	61
607	New understanding of photocatalytic properties of zigzag and armchair g-C 3 N 4 nanotubes from electronic structures and carrier effective mass. Applied Surface Science, 2018, 430, 348-354.	6.1	40
608	Low cost hydrogen production by anion exchange membrane electrolysis: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 1690-1704.	16.4	507
609	Silver nanoparticles/graphitic carbon nitride nanosheets for improved visible-light-driven photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 351, 145-153.	3.9	29
610	Application of nanotechnologies for removing pharmaceutically active compounds from water: development and future trends. Environmental Science: Nano, 2018, 5, 27-47.	4.3	211
611	Facile synthesis of carbon-doped g-C3N4 for enhanced photocatalytic hydrogen evolution under visible light. Materials Letters, 2018, 212, 111-113.	2.6	41
612	Sunlight-driven photocatalytic activity of SnO2 QDs-g-C3N4 nanolayers. Materials Letters, 2018, 212, 327-331.	2.6	54
613	Magnetic g-C3N4 nanocomposite-catalyzed environmentally benign aminolysis of epoxide. Research on Chemical Intermediates, 2018, 44, 1425-1436.	2.7	5
614	Synthesis of Au nanoparticle-decorated carbon nitride nanorods with plasmon-enhanced photoabsorption and photocatalytic activity for removing various pollutants from water. Journal of Hazardous Materials, 2018, 344, 1188-1197.	12.4	81
615	Construction of RGO/CdIn 2 S 4 /g-C 3 N 4 ternary hybrid with enhanced photocatalytic activity for the degradation of tetracycline hydrochloride. Applied Surface Science, 2018, 433, 388-397.	6.1	91
616	Enhanced photocatalytic activity of mesoporous carbon/C3N4 composite photocatalysts. Journal of Colloid and Interface Science, 2018, 512, 474-479.	9.4	22
617	Enhanced photocatalytic activity of graphitic carbon nitride/carbon nanotube/Bi2WO6 ternary Z-scheme heterojunction with carbon nanotube as efficient electron mediator. Journal of Colloid and Interface Science, 2018, 512, 693-700.	9.4	101
618	3D Porous Carbonaceous Electrodes for Electrocatalytic Applications. Joule, 2018, 2, 76-93.	24.0	92
619	Enhanced photocatalytic hydrogen production of restructured B/F codoped g-C3N4 via post-thermal treatment. Materials Letters, 2018, 212, 319-322.	2.6	25

#	Article	IF	CITATIONS
620	Ruthenium based materials as electrode materials for supercapacitors. Chemical Engineering Journal, 2018, 333, 505-518.	12.7	147
621	Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C3N4 under solar irradiation: Performance and mechanistic studies. Chemical Engineering Journal, 2018, 333, 739-749.	12.7	209
622	Amorphous NiO as co-catalyst for enhanced visible-light-driven hydrogen generation over g-C 3 N 4 photocatalyst. Applied Catalysis B: Environmental, 2018, 222, 35-43.	20.2	252
623	Nitrogen photofixation by ultrathin amine-functionalized graphitic carbon nitride nanosheets as a gaseous product from thermal polymerization of urea. Applied Catalysis B: Environmental, 2018, 224, 222-229.	20.2	135
624	Implantation of Iron(III) in porphyrinic metal organic frameworks for highly improved photocatalytic performance. Applied Catalysis B: Environmental, 2018, 224, 60-68.	20.2	125
625	Facile one-step synthesis of hollow mesoporous g-C3N4 spheres with ultrathin nanosheets for photoredox water splitting. Carbon, 2018, 126, 247-256.	10.3	204
626	Metal-free heterojunction of graphitic carbon nitride composite with superior and stable visible-light active photocatalysis. Materials Chemistry and Physics, 2018, 204, 243-250.	4.0	26
627	Cytotoxicity of Group 5 Transition Metal Ditellurides (MTe ₂ ; M=V, Nb, Ta). Chemistry - A European Journal, 2018, 24, 206-211.	3.3	32
628	Scalable one-step production of porous oxygen-doped g-C3N4 nanorods with effective electron separation for excellent visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2018, 224, 1-9.	20.2	269
629	Sub-2 nm Pt-decorated Zn0.5Cd0.5S nanocrystals with twin-induced homojunctions for efficient visible-light-driven photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2018, 224, 360-367.	20.2	133
630	Three dimensional hierarchical heterostructures of g-C3N4 nanosheets/TiO2 nanofibers: Controllable growth via gas-solid reaction and enhanced photocatalytic activity under visible light. Journal of Hazardous Materials, 2018, 344, 113-122.	12.4	116
631	A low temperature, highly sensitive and fast response toluene gas sensor based on In(III)-SnO2 loaded cubic mesoporous graphitic carbon nitride. Sensors and Actuators B: Chemical, 2018, 255, 3564-3575.	7.8	85
632	Metal-free efficient photocatalyst for stable visible-light photocatalytic degradation of refractory pollutant. Applied Catalysis B: Environmental, 2018, 221, 715-725.	20.2	438
633	Effect of thickness on the photophysics and charge carrier kinetics of graphitic carbon nitride nanoflakes. Chinese Chemical Letters, 2018, 29, 543-546.	9.0	4
634	Significantly enhanced photocatalytic hydrogen generation over graphitic carbon nitride with carefully modified intralayer structures. Chemical Engineering Journal, 2018, 332, 499-507.	12.7	47
635	Novel hybrids of graphitic carbon nitride sensitized with free-base meso-tetrakis(carboxyphenyl) porphyrins for efficient visible light photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2018, 221, 56-69.	20.2	136
636	Efficient visible-light-driven photocatalytic hydrogen production from water by using Eosin Y-sensitized novel g-C3N4/Pt/GO composites. Journal of Materials Science, 2018, 53, 774-786.	3.7	57
637	Oxygen-doped nanoporous carbon nitride via water-based homogeneous supramolecular assembly for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 221, 9-16.	20.2	217
#	Article	IF	CITATIONS
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638	Graphene and g-C 3 N 4 based photocatalysts for NO x removal: A review. Applied Surface Science, 2018, 430, 18-52.	6.1	153
639	Photocatalytic fixation of nitrogen to ammonia: state-of-the-art advancements and future prospects. Materials Horizons, 2018, 5, 9-27.	12.2	586
640	Graphene-like boron nitride induced accelerated charge transfer for boosting the photocatalytic behavior of Bi4O5I2 towards bisphenol a removal. Chemical Engineering Journal, 2018, 331, 355-363.	12.7	111
641	Oxygen vacancy-rich 2D/2D BiOCl-g-C3N4 ultrathin heterostructure nanosheets for enhanced visible-light-driven photocatalytic activity in environmental remediation. Applied Catalysis B: Environmental, 2018, 220, 290-302.	20.2	490
642	Enhanced NO 2 abatement by alkaline-earth modified g-C 3 N 4 nanocomposites for efficient air purification. Applied Surface Science, 2018, 430, 225-233.	6.1	33
643	gâ€C ₃ N ₄ â€Based Heterostructured Photocatalysts. Advanced Energy Materials, 2018, 8, 1701503.	19.5	1,870
644	Synthesis of Large Surfaceâ€Area gâ€C ₃ N ₄ Comodified with MnO <i>_x</i> and Auâ€īO ₂ as Efficient Visibleâ€Light Photocatalysts for Fuel Production. Advanced Energy Materials, 2018, 8, 1701580.	19.5	157
645	Highly efficient visible-light driven photocatalytic reduction of CO2 over g-C3N4 nanosheets/tetra(4-carboxyphenyl)porphyrin iron(III) chloride heterogeneous catalysts. Applied Catalysis B: Environmental, 2018, 221, 312-319.	20.2	186
646	Sb doped SnO2-decorated porous g-C3N4 nanosheet heterostructures with enhanced photocatalytic activities under visible light irradiation. Applied Catalysis B: Environmental, 2018, 221, 670-680.	20.2	122
647	In situ one-pot fabrication of g-C 3 N 4 nanosheets/NiS cocatalyst heterojunction with intimate interfaces for efficient visible light photocatalytic H 2 generation. Applied Surface Science, 2018, 430, 208-217.	6.1	204
648	Organosilica Nanotube Templates: Oneâ€Pot Synthesis of Carbonâ€Modified Polymeric Carbon Nitride Nanorods for Photocatalysis. ChemCatChem, 2018, 10, 581-589.	3.7	22
649	Porous g-C 3 N 4 with enhanced adsorption and visible-light photocatalytic performance for removing aqueous dyes and tetracycline hydrochloride. Chinese Journal of Chemical Engineering, 2018, 26, 753-760.	3.5	36
650	Enhanced visible light photocatalytic activity of TiO ₂ assisted by organic semiconductors: a structure optimization strategy of conjugated polymers. Journal of Materials Chemistry A, 2018, 6, 153-159.	10.3	73
651	Construction of direct solid-state Z-scheme g-C ₃ N ₄ /BiOI with improved photocatalytic activity for microcystin-LR degradation. Journal of Materials Research, 2018, 33, 201-212.	2.6	32
652	Tubular TiO ₂ Nanostructures: Toward Safer Microsupercapacitors. Advanced Materials Technologies, 2018, 3, 1700194.	5.8	9
653	Photocatalytic CO2 reduction promoted by uniform perovskite hydroxide CoSn(OH)6 nanocubes. Applied Catalysis B: Environmental, 2018, 224, 1009-1016.	20.2	100
654	Enhanced Solar Fuel H ₂ Generation over g-C ₃ N ₄ Nanosheet Photocatalysts by the Synergetic Effect of Noble Metal-Free Co ₂ P Cocatalyst and the Environmental Phosphorylation Strategy. ACS Sustainable Chemistry and Engineering, 2018, 6, 816-826.	6.7	201
655	Mesocrystalline Ti3+TiO2 hybridized g-C3N4 for efficient visible-light photocatalysis. Carbon, 2018, 128, 21-30.	10.3	110

#	Article	IF	CITATIONS
656	An environment-friendly route to synthesize pyramid-like g-C3N4 arrays for efficient degradation of rhodamine B under visible-light irradiation. Chemical Engineering Journal, 2018, 334, 1869-1877.	12.7	62
657	A magnetically recoverable bimetallic Au-FeNPs decorated on g-C 3 N 4 for efficient photocatalytic degradation of organic contaminants. Journal of Molecular Liquids, 2018, 249, 754-763.	4.9	25
658	Photocatalytic Oxygen Evolution from Functional Triazineâ€Based Polymers with Tunable Band Structures. Angewandte Chemie, 2018, 130, 479-483.	2.0	75
659	Plasmonic enhancement of light-harvesting efficiency in tandem dye-sensitized solar cells using multiplexed gold core/silica shell nanorods. Journal of Power Sources, 2018, 376, 26-32.	7.8	20
660	Construction of a Z-scheme core–shell g-C ₃ N ₄ /MCNTs/BiOI nanocomposite semiconductor with enhanced visible-light photocatalytic activity. New Journal of Chemistry, 2018, 42, 489-496.	2.8	17
661	Photobiocatalysis: Activating Redox Enzymes by Direct or Indirect Transfer of Photoinduced Electrons. Angewandte Chemie - International Edition, 2018, 57, 7958-7985.	13.8	277
662	Katalyse der Kohlenstoffdioxidâ€Photoreduktion an Nanoschichten: Grundlagen und Herausforderungen. Angewandte Chemie, 2018, 130, 7734-7752.	2.0	27
663	Insight into enhanced photocatalytic H2 production by Ni(OH)2-decorated ZnxCd1-xS nanocomposite photocatalysts. Journal of Alloys and Compounds, 2018, 735, 2551-2557.	5.5	29
664	Constructing 2D graphitic carbon nitride nanosheets/layered MoS2/graphene ternary nanojunction with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2018, 225, 468-476.	20.2	208
665	Synthesis of direct Z-scheme g-C3N4/Ag2VO2PO4 photocatalysts with enhanced visible light photocatalytic activity. Separation and Purification Technology, 2018, 195, 332-338.	7.9	59
666	Electrophoretic deposition of ordered mesoporous carbon nitride on a stainless steel wire as a high-performance solid phase microextraction coating. Chemical Communications, 2018, 54, 507-510.	4.1	38
667	The Reactivity of Cyameluric Chloride C ₆ N ₇ Cl ₃ towards Phosphines and Phosphine Oxides. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 121-126.	1.2	8
668	Conjugated polyene-functionalized graphitic carbon nitride with enhanced photocatalytic water-splitting efficiency. Carbon, 2018, 129, 637-645.	10.3	42
669	Bio-inspired synthesis of three-dimensional porous g-C3N4@carbon microflowers with enhanced oxygen evolution reactivity. Chemical Engineering Journal, 2018, 337, 312-321.	12.7	44
670	<i>In situ</i> g-C ₃ N ₄ self-sacrificial synthesis of a g-C ₃ N ₄ /LaCO ₃ OH heterostructure with strong interfacial charge transfer and separation for photocatalytic NO removal. Journal of Materials Chemistry A, 2018, 6, 972-981.	10.3	54
671	Photobiokatalyse: Aktivierung von Redoxenzymen durch direkten oder indirekten Transfer photoinduzierter Elektronen. Angewandte Chemie, 2018, 130, 8086-8116.	2.0	51
672	Fragmented phosphorus-doped graphitic carbon nitride nanoflakes with broad sub-bandgap absorption for highly efficient visible-light photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 225, 397-405.	20.2	154
673	Copper-doped flower-like molybdenum disulfide/bismuth sulfide photocatalysts for enhanced solar water splitting. International Journal of Hydrogen Energy, 2018, 43, 748-756.	7.1	48

#	Article	IF	CITATIONS
674	Mechanism insight into rapid photocatalytic disinfection of Salmonella based on vanadate QDs-interspersed g-C3N4 heterostructures. Applied Catalysis B: Environmental, 2018, 225, 228-237.	20.2	165
675	Carbon Nanotube–Graphitic Carbon Nitride Hybrid Films for Flavoenzymeâ€Catalyzed Photoelectrochemical Cells. Advanced Functional Materials, 2018, 28, 1705232.	14.9	64
676	Catalysis of Carbon Dioxide Photoreduction on Nanosheets: Fundamentals and Challenges. Angewandte Chemie - International Edition, 2018, 57, 7610-7627.	13.8	361
677	In situ construction of fibrous AgNPs/g-C3N4 aerogel toward light-driven COx-free methanol dehydrogenation at room temperature. Chemical Engineering Journal, 2018, 334, 2401-2407.	12.7	45
678	Sustainable Growth and Lipid Production from <i>Chlorella pyrenoidosa</i> Using N-Doped Carbon Nanosheets: Unravelling the Role of Graphitic Nitrogen. ACS Sustainable Chemistry and Engineering, 2018, 6, 774-780.	6.7	23
679	A review on photocatalytic CO ₂ reduction using perovskite oxide nanomaterials. Nanotechnology, 2018, 29, 052001.	2.6	192
680	CoMoS2/rGO/C3N4 ternary heterojunctions catalysts with high photocatalytic activity and stability for hydrogen evolution under visible light irradiation. Applied Surface Science, 2018, 435, 1296-1306.	6.1	37
681	Noble metal-free NiS/P-S codoped g-C3N4 photocatalysts with strong visible light absorbance and enhanced H2 evolution activity. Catalysis Communications, 2018, 106, 55-59.	3.3	30
682	Magnetically recoverable highly efficient visible-light-active g-C3N4/Fe3O4/Ag2WO4/AgBr nanocomposites for photocatalytic degradations of environmental pollutants. Advanced Powder Technology, 2018, 29, 94-105.	4.1	111
683	Photoelectrochemical apta-biosensor for zeatin detection based on graphene quantum dots improved photoactivity of graphite-like carbon nitride and streptavidin induced signal inhibition. Sensors and Actuators B: Chemical, 2018, 257, 237-244.	7.8	53
684	Design of a Unique Energy-Band Structure and Morphology in a Carbon Nitride Photocatalyst for Improved Charge Separation and Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 519-530.	6.7	60
685	Recent progress in two-dimensional inorganic quantum dots. Chemical Society Reviews, 2018, 47, 586-625.	38.1	230
686	Cobalt manganese spinel as an effective cocatalyst for photocatalytic water oxidation. Applied Catalysis B: Environmental, 2018, 224, 886-894.	20.2	78
687	A novel route combined precursor-hydrothermal pretreatment with microwave heating for preparing holey g-C3N4 nanosheets with high crystalline quality and extended visible light absorption. Applied Catalysis B: Environmental, 2018, 225, 22-29.	20.2	108
688	Robust visible/near-infrared light driven hydrogen generation over Z-scheme conjugated polymer/CdS hybrid. Applied Catalysis B: Environmental, 2018, 224, 871-876.	20.2	63
689	Constructing magnetic catalysts with in-situ solid-liquid interfacial photo-Fenton-like reaction over Ag3PO4@NiFe2O4 composites. Applied Catalysis B: Environmental, 2018, 225, 40-50.	20.2	175
690	Rapidly catalysis of oxygen evolution through sequential engineering of vertically layered FeNi structure. Nano Energy, 2018, 43, 359-367.	16.0	49
691	Pristine Metal–Organic Frameworks and their Composites for Energy Storage and Conversion. Advanced Materials, 2018, 30, e1702891.	21.0	525

		IF	CITATIONS
Ŧ	ARTICLE Photocatalytic Oxygen Evolution from Functional Triazineâ€Based Polymers with Tunable Band	IF	CHATIONS
692	Structures. Angewandte Chemie - International Edition, 2018, 57, 470-474.	13.8	278
693	One‣tep Synthesis of B/N Coâ€doped Graphene as Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction: Synergistic Effect of Impurities. Chemistry - A European Journal, 2018, 24, 928-936.	3.3	26
694	Review on magnetically separable graphitic carbon nitride-based nanocomposites as promising visible-light-driven photocatalysts. Journal of Materials Science: Materials in Electronics, 2018, 29, 1719-1747.	2.2	462
695	Coordination Polymer Derived Sulfur Vacancies Rich CdS Composite Photocatalyst with Nitrogen Doped Carbon as Matrix for H ₂ Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 854-861.	6.7	44
696	Chemical vapor deposition growth of two-dimensional heterojunctions. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	52
697	Sodium-doped carbon nitride nanotubes for efficient visible light-driven hydrogen production. Nano Research, 2018, 11, 2295-2309.	10.4	94
698	2D heterostructure comprised of metallic 1T-MoS2/Monolayer O-g-C3N4 towards efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 220, 379-385.	20.2	231
699	Toward noble-metal-free visible-light-driven photocatalytic hydrogen evolution: Monodisperse sub–15 nm Ni2P nanoparticles anchored on porous g-C3N4 nanosheets to engineer 0D-2D heterojunction interfaces. Applied Catalysis B: Environmental, 2018, 221, 47-55.	20.2	251
700	Synthesis and characterization of novel Sm2O3/S-doped g-C3N4 nanocomposites with enhanced photocatalytic activities under visible light irradiation. Applied Surface Science, 2018, 427, 375-387.	6.1	87
701	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified gâ€C ₃ N ₄ under Dual Light Irradiation. Advanced Functional Materials, 2018, 28, 1800299.	14.9	246
702	Photo-Assisted Hydrogen Evolution with Reduced Graphene Oxide Catalyst on Silicon Nanowire Photocathode. Applied Sciences (Switzerland), 2018, 8, 2046.	2.5	20
703	2D g-C3N4–MnO2 nanocomposite for sensitive and rapid turn-on fluorescence detection of H2O2 and glucose. Analytical Methods, 2018, 10, 5084-5090.	2.7	19
704	Mini Review on the Structure and Properties (Photocatalysis), and Preparation Techniques of Graphitic Carbon Nitride Nano-Based Particle, and Its Applications. Nanoscale Research Letters, 2018, 13, 388.	5.7	127
705	Hantzsch ester as hole relay significantly enhanced photocatalytic hydrogen production. Catalysis Science and Technology, 2018, 8, 6123-6128.	4.1	11
706	Boosted visible light photodegradation activity of boron doped rGO/g-C ₃ N ₄ nanocomposites: the role of C–O–C bonds. New Journal of Chemistry, 2018, 42, 17644-17651.	2.8	18
707	Pristine carbon nitride as active material for high-performance metal-free supercapacitors: simple, easy and cheap. RSC Advances, 2018, 8, 35327-35336.	3.6	35
708	Apically Co-nanoparticles-wrapped nitrogen-doped carbon nanotubes from a single-source MOF for efficient oxygen reduction. Journal of Materials Chemistry A, 2018, 6, 24071-24077.	10.3	73
709	C ₃ N ₄ –Mn/CNT composite as a heterogeneous catalyst in the electro-peroxone process for promoting the reaction between O ₃ and H ₂ O ₂ in acid solution. Catalysis Science and Technology, 2018, 8, 6241-6251.	4.1	10

#	Article	IF	CITATIONS
710	Ultrasmall C-TiO _{2â^'x} nanoparticle/g-C ₃ N ₄ composite for CO ₂ photoreduction with high efficiency and selectivity. Journal of Materials Chemistry A, 2018, 6, 21596-21604.	10.3	48
711	MicroRNA‑154 functions as a tumor suppressor in bladder cancer by directly targeting ATG7. Oncology Reports, 2018, 41, 819-828.	2.6	27
712	Photoelectrochemical determination of the activity of protein kinase A by using g-C3N4 and CdS quantum dots. Mikrochimica Acta, 2018, 185, 541.	5.0	9
713	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. Nature Communications, 2018, 9, 4968.	12.8	244
714	Synthesis, Characterization of g-C3N4/SrTiO3 Heterojunctions and Photocatalytic Activity for Organic Pollutants Degradation. Catalysts, 2018, 8, 554.	3.5	72
715	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. Journal of Physical Chemistry C, 2018, 122, 28065-28074.	3.1	20
716	Wrinkled Ultrathin Graphitic C ₃ N ₄ Nanosheets for Photocatalytic Degradation of Organic Wastewater. ACS Applied Nano Materials, 2018, 1, 6733-6741.	5.0	71
717	Electrostatic Stabilization of Carbon Nitride Colloids in Organic Solvents Enables Stable Dispersions and Transparent Homogeneous CN Films for Optoelectronics. Journal of the American Chemical Society, 2018, 140, 17532-17537.	13.7	48
718	2D Nanocomposite of g ₃ N ₄ and TiN Embedded Nâ€Doped Graphene for Photoelectrochemical Reduction of Water Using Sunlight. Advanced Materials Interfaces, 2018, 5, 1801488.	3.7	34
719	Electronic Structure Modulation of Graphitic Carbon Nitride by Oxygen Doping for Enhanced Catalytic Degradation of Organic Pollutants through Peroxymonosulfate Activation. Environmental Science & Technology, 2018, 52, 14371-14380.	10.0	455
720	Photocatalysis: From Fundamental Principles to Materials and Applications. ACS Applied Energy Materials, 2018, 1, 6657-6693.	5.1	370
721	Bimetallic PtNi/g-C3N4 nanotubes with enhanced photocatalytic activity for H2 evolution under visible light irradiation. International Journal of Hydrogen Energy, 2018, 43, 22215-22225.	7.1	64
722	Highly Enhanced Photocatalytic Water-Splitting Activity of Gallium Zinc Oxynitride Derived from Flux-Assisted Zn/Ga Layered Double Hydroxides. Industrial & Engineering Chemistry Research, 2018, 57, 16264-16271.	3.7	13
723	Improving the Visible-Light Photocatalytic Activity of Graphitic Carbon Nitride by Carbon Black Doping. ACS Omega, 2018, 3, 15009-15017.	3.5	46
724	Janus nanostructures for heterogeneous photocatalysis. Applied Physics Reviews, 2018, 5, 041111.	11.3	51
725	Graphitic carbon nitride (g-C ₃ N ₄) electrodes for energy conversion and storage: a review on photoelectrochemical water splitting, solar cells and supercapacitors. Journal of Materials Chemistry A, 2018, 6, 22346-22380.	10.3	244
726	Person Re-Identification by Multi-Camera Networks for Internet of Things in Smart Cities. IEEE Access, 2018, 6, 76111-76117.	4.2	11
727	<i>In situ</i> topotactic fabrication of direct Z-scheme 2D/2D ZnO/Zn _x Cd _{1â^x} S single crystal nanosheet heterojunction for efficient photocatalytic water splitting. Catalysis Science and Technology, 2018, 8, 6458-6467.	4.1	49

#	Article	IF	CITATIONS
728	Facile fabrication of sandwich-like BiOI/AgI/g-C3N4 composites for efficient photocatalytic degradation of methyl orange and reduction of Cr(VI). Journal of Nanoparticle Research, 2018, 20, 1.	1.9	27
729	Achieving Efficient Incorporation of Ï€â€Electrons into Graphitic Carbon Nitride for Markedly Improved Hydrogen Generation. Angewandte Chemie, 2019, 131, 2007-2011.	2.0	51
730	Metal-Free Visible-Light Photoactivated C ₃ N ₄ Bubble-Propelled Tubular Micromotors with Inherent Fluorescence and On/Off Capabilities. ACS Nano, 2018, 12, 12482-12491.	14.6	85
731	An Investigation into the Stability of Graphitic C ₃ N ₄ as a Photocatalyst for CO ₂ Reduction. Journal of Physical Chemistry C, 2018, 122, 28727-28738.	3.1	56
732	Preassembly Strategy To Fabricate Porous Hollow Carbonitride Spheres Inlaid with Single Cu–N ₃ Sites for Selective Oxidation of Benzene to Phenol. Journal of the American Chemical Society, 2018, 140, 16936-16940.	13.7	156
733	Tuning Nitrogen Content in Graphitic Carbon Nitride by Isonicotinic acid for Highly Efficient Photocatalytic Hydrogen Evolution. ChemCatChem, 2018, 11, 1045.	3.7	9
734	Molecular Doping of Electrochemically Prepared Triazine-Based Carbon Nitride by 2,4,6-Triaminopyrimidine for Improved Photocatalytic Properties. ACS Omega, 2018, 3, 17042-17048.	3.5	20
735	A Metal-Free Carbon-Based Catalyst: An Overview and Directions for Future Research. Journal of Carbon Research, 2018, 4, 54.	2.7	29
736	Fabrication of nobleâ€metalâ€free gâ€C ₃ N ₄ â€MILâ€53(Fe) composite for enhanced photocatalytic H ₂ â€generation performance. Applied Organometallic Chemistry, 2018, 32, e4597.	3.5	49
737	A Comparative Study of the Photoconduction, Photocatalytic and Electrocatalytic Performance of g-C3N4/ZnS/CuS Heterojunctions with Different Morphologies. Catalysis Letters, 2018, 148, 3342-3348.	2.6	10
738	Improved visible-light catalytic activities of novel Au/P-doped g-C3N4 photocatalyst for solar fuel production and mechanism. Applied Catalysis A: General, 2018, 568, 139-147.	4.3	86
739	Two-dimensional ultrathin ZnxCd1-xS nanosheet with exposed polar facet by using layered double hydroxide template for photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2018, 43, 19481-19491.	7.1	22
740	Two-dimensional quantum dots: Fundamentals, photoluminescence mechanism and their energy and environmental applications. Materials Today Energy, 2018, 10, 222-240.	4.7	87
741	Rational Design of Carbon Nitride Materials by Supramolecular Preorganization of Monomers. ChemCatChem, 2018, 10, 5573-5586.	3.7	105
742	Popping of g-C3N4 mixed with cupric nitrate: Facile synthesis of Cu-based catalyst for construction of C N bond. Green Energy and Environment, 2018, 3, 368-374.	8.7	8
743	Graphitic Carbon Nitrideâ ^{~^} γ-Gallium Oxide (GCN-γ <i>-</i> Ga ₂ O ₃) Nanohybrid Photocatalyst for Dinitrogen Fixation and Pollutant Decomposition. ACS Applied Nano Materials, 2018, 1, 5581-5588.	5.0	32
744	Proton-Coupled Electron Transfer from Water to a Model Heptazine-Based Molecular Photocatalyst. Journal of Physical Chemistry Letters, 2018, 9, 6257-6261.	4.6	51
745	Hierarchical Macro–Mesoporous Polymeric Carbon Nitride Microspheres with Narrow Bandgap for Enhanced Photocatalytic Hydrogen Production, Advanced Materials Interfaces, 2018, 5, 1801241.	3.7	21

#	Article	IF	CITATIONS
746	Rapid and energy-efficient preparation of boron doped g-C3N4 with excellent performance in photocatalytic H2-evolution. International Journal of Hydrogen Energy, 2018, 43, 19984-19989.	7.1	137
747	Insight into the enhanced CO2 photocatalytic reduction performance over hollow-structured Bi-decorated g-C3N4 nanohybrid under visible-light irradiation. Journal of CO2 Utilization, 2018, 28, 126-136.	6.8	75
748	Insights on Tafel Constant in the Analysis of Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 23943-23949.	3.1	136
749	Z-Scheme Au@Void@g-C ₃ N ₄ /SnS Yolk–Shell Heterostructures for Superior Photocatalytic CO ₂ Reduction under Visible Light. ACS Applied Materials & Interfaces, 2018, 10, 34123-34131.	8.0	120
750	Nanocellulose: Recent advances and its prospects in environmental remediation. Beilstein Journal of Nanotechnology, 2018, 9, 2479-2498.	2.8	202
751	Facile fabrication of direct solid-state Z-scheme g-C ₃ N ₄ /Fe ₂ O ₃ heterojunction: a cost-effective photocatalyst with high efficiency for the degradation of aqueous organic pollutants. Dalton Transactions, 2018, 47, 15382-15390.	3.3	56
752	Simultaneous morphology, band structure, and defect optimization of graphitic carbon nitride microsphere by the precursor concentration to boost photocatalytic activity. Journal of Materials Research, 2018, 33, 3917-3927.	2.6	12
753	Organic–Organic Hybrid g-C ₃ N ₄ /Ethanediamine Nanosheets for Photocatalytic H ₂ Evolution. Journal of Physical Chemistry C, 2018, 122, 24725-24731.	3.1	15
754	Enhanced Visibleâ€Lightâ€Driven ActivityÂofÂSodiumâ€, Calcium―and Aluminiumâ€InsertedÂg ₃ N ₄ . ChemistrySelect, 2018, 3, 11241-11250.	1.5	6
755	Determination of surface properties and Gutmann's Lewis acidity–basicity parameters of thiourea and melamine polymerized graphitic carbon nitride sheets by inverse gas chromatography. Journal of Chromatography A, 2018, 1580, 134-141.	3.7	22
756	Ultralong Nanostructured Carbon Nitride Wires and Self-Standing C-Rich Filters from Supramolecular Microspheres. ACS Applied Materials & Interfaces, 2018, 10, 39688-39694.	8.0	34
757	Two-dimensional layered nanomaterials for visible-light-driven photocatalytic water splitting. Materials Today Energy, 2018, 10, 352-367.	4.7	73
758	Mechanistic study on metal-free acetylene hydrochlorination catalyzed by imidazolium-based ionic liquids. Molecular Catalysis, 2018, 461, 73-79.	2.0	20
759	Facile strategy to fabricate Ni2P/g-C3N4 heterojunction with excellent photocatalytic hydrogen evolution activity. International Journal of Hydrogen Energy, 2018, 43, 21355-21364.	7.1	109
760	Bionanocomposite Hydrogel for the Adsorption of Dye and Reusability of Generated Waste for the Photodegradation of Ciprofloxacin: A Demonstration of the Circularity Concept for Water Purification. ACS Sustainable Chemistry and Engineering, 2018, 6, 17011-17025.	6.7	108
761	Photocatalytic Carbon Nitride Materials with Nanoscale Features Synthesized from the Rapid and Low-Temperature Decomposition of Trichloromelamine. ACS Applied Nano Materials, 2018, 1, 5944-5956.	5.0	15
762	An Unusual Red Carbon Nitride to Boost the Photoelectrochemical Performance of Wide Bandgap Photoanodes. Advanced Functional Materials, 2018, 28, 1805698.	14.9	94
763	Efficient Degradation of Phenol and 4â€Nitrophenol by Surface Oxygen Vacancies and Plasmonic Silver Coâ€Modified Bi ₂ MoO ₆ Photocatalysts. Chemistry - A European Journal, 2018, 24, 18463-18478.	3.3	40

#	Article	IF	CITATIONS
764	Graphitic Carbon Nitride for Electrochemical Energy Conversion and Storage. ACS Energy Letters, 2018, 3, 2796-2815.	17.4	149
765	One-Step Synthesis Heterostructured g-C3N4/TiO2 Composite for Rapid Degradation of Pollutants in Utilizing Visible Light. Nanomaterials, 2018, 8, 842.	4.1	47
766	Controllable Interfaceâ€Induced Coâ€Assembly toward Highly Ordered Mesoporous Pt@TiO ₂ /g ₃ N ₄ Heterojunctions with Enhanced Photocatalytic Performance. Advanced Functional Materials, 2018, 28, 1806214.	14.9	99
767	Localized NiS ₂ Quantum Dots on g ₃ N ₄ Nanosheets for Efficient Photocatalytic Hydrogen Production from Water. ChemCatChem, 2018, 10, 5441-5448.	3.7	46
768	A New Graphitic Carbon Nitride/Horseradish Peroxidase Hybrid Nano–Bio Artificial Catalytic System for Unselective Degradation of Persistent Phenolic Pollutants. Advanced Materials Interfaces, 2018, 5, 1801297.	3.7	30
769	Metal-Free Graphitic Carbon Nitride Photocatalyst Goes Into Two-Dimensional Time. Frontiers in Chemistry, 2018, 6, 551.	3.6	41
770	Influence of g-C ₃ N ₄ Precursors in g-C ₃ N ₄ /NiTiO ₃ Composites on Photocatalytic Behavior and the Interconnection between g-C ₃ N ₄ and NiTiO ₃ . Langmuir, 2018, 34, 13144-13154.	3.5	79
771	Handbook of Materials Characterization. , 2018, , .		35
772	Copolymerization Approach to Improving Ru(II)-Complex/C ₃ N ₄ Hybrid Photocatalysts for Visible-Light CO ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2018, 6, 15333-15340.	6.7	40
773	Z-Scheme g-C ₃ N ₄ /Bi ₄ NbO ₈ Cl Heterojunction for Enhanced Photocatalytic Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 16219-16227.	6.7	156
774	Embedding Noble-Metal-Free Ni2P Cocatalyst on g-C3N4 for Enhanced Photocatalytic H2 Evolution in Water Under Visible Light. Catalysis Letters, 2018, 148, 3741-3749.	2.6	16
775	Tuning Thermally Treated Graphitic Carbon Nitride for H ₂ Evolution and CO ₂ Photoreduction: The Effects of Material Properties and Mid-Gap States. ACS Applied Energy Materials, 2018, 1, 6524-6534.	5.1	33
776	Heterogeneous Visible-Light Photoredox Catalysis with Graphitic Carbon Nitride for α-Aminoalkyl Radical Additions, Allylations, and Heteroarylations. ACS Catalysis, 2018, 8, 9471-9476.	11.2	112
777	Ordered graphitic carbon nitride tubular bundles with efficient electron-hole separation and enhanced photocatalytic performance for hydrogen generation. Applied Catalysis A: General, 2018, 566, 200-206.	4.3	21
778	High-Density Ultra-small Clusters and Single-Atom Fe Sites Embedded in Graphitic Carbon Nitride (g-C ₃ N ₄) for Highly Efficient Catalytic Advanced Oxidation Processes. ACS Nano, 2018, 12, 9441-9450.	14.6	455
779	Enhanced Photocatalytic Hydrogen Evolution of Carbon Quantum Dot Modified 1D Protonated Nanorods of Graphitic Carbon Nitride. ACS Applied Nano Materials, 2018, 1, 5337-5344.	5.0	34
780	First-principles study of the nanotubes from the TiO2 hexagonal sheet. Journal of Materials Science, 2018, 53, 15530-15540.	3.7	4
781	Electrocatalytic Activity of Carbon in N-Doped Graphene to Achieve High-Energy Density Li–S Batteries. Journal of Physical Chemistry C, 2018, 122, 23045-23052.	3.1	15

#	Article	IF	CITATIONS
783	Highly Active, Superstable, and Biocompatible Ag/Polydopamine/g-C ₃ N ₄ Bactericidal Photocatalyst: Synthesis, Characterization, and Mechanism. ACS Sustainable Chemistry and Engineering, 2018, 6, 14082-14094.	6.7	76
784	Optical Spectroscopy and Its Applications in Inorganic Materials. , 2018, , 293-315.		0
785	Plant leaf extracts as photocatalytic activity tailoring agents for BiOCl towards environmental remediation. Ecotoxicology and Environmental Safety, 2018, 165, 357-366.	6.0	29
786	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. Chemical Society Reviews, 2018, 47, 7783-7817.	38.1	238
787	A facile band alignment of polymeric carbon nitride isotype heterojunctions for enhanced photocatalytic tetracycline degradation. Environmental Science: Nano, 2018, 5, 2604-2617.	4.3	93
788	Piezo-phototronic mediated enhanced photodetection characteristics of plasmonic Au-g-C ₃ N ₄ /CdS/ZnO based hybrid heterojunctions on a flexible platform. Nanoscale, 2018, 10, 19203-19211.	5.6	30
789	Tiâ€Substituted Kegginâ€Type Polyoxotungstate as Proton and Electron Reservoir Encaged into Metal–Organic Framework for Carbon Dioxide Photoreduction. Advanced Materials Interfaces, 2018, 5, 1801062.	3.7	62
790	Synthesis of vanadium-pentoxide-supported graphitic carbon nitride heterostructure and studied their hydrogen evolution activity under solar light. Journal of Materials Science: Materials in Electronics, 2018, 29, 18760-18770.	2.2	26
791	Carbon Self-Doped Carbon Nitride Nanosheets with Enhanced Visible-Light Photocatalytic Hydrogen Production. Catalysts, 2018, 8, 366.	3.5	17
792	Investigations of Interfacial Electric Field on Reducedâ€Grapheneâ€Oxideâ€Supported Molybdenum Oxide @ Silver Phosphate Ternary Hybrid Composite: Highly Efficient Visibleâ€Lightâ€Driven Photocatalyst. ChemistrySelect, 2018, 3, 9920-9932.	1.5	5
793	Comparing the photocatalytic properties of g-C3N4 treated by thermal decomposition, solvothermal and protonation. Results in Physics, 2018, 11, 331-334.	4.1	37
794	Fe-ZrO2 imbedded graphene like carbon nitride for acarbose (ACB) photo-degradation intermediate study. Advanced Powder Technology, 2018, 29, 3233-3240.	4.1	15
795	Synthesis and Functionalization of Nanomaterials. Springer Series in Materials Science, 2018, , 15-55.	0.6	12
796	Strategies to improve metal organic frameworks photocatalyst's performance for degradation of organic pollutants. Coordination Chemistry Reviews, 2018, 376, 449-466.	18.8	139
797	Au–TiO ₂ -Loaded Cubic g-C ₃ N ₄ Nanohybrids for Photocatalytic and Volatile Organic Amine Sensing Applications. ACS Applied Materials & Interfaces, 2018, 10, 34087-34097.	8.0	132
798	A ratiometric photoelectrochemical immunosensor based on g-C ₃ N ₄ @TiO ₂ NTs amplified by signal antibodies–Co ₃ O ₄ nanoparticle conjugates. Analyst, The, 2018, 143, 5030-5037.	3.5	22
799	Enhanced photocatalytic hydrogen evolution over a heterojunction composed of silver cyanamide and graphitic carbon nitride. New Journal of Chemistry, 2018, 42, 16005-16012.	2.8	12
800	One step to prepare Cl doped porous defect modified g-C ₃ N ₄ with improved visible-light photocatalytic performance for H ₂ production and rhodamine B degradation. Materials Research Express, 2018, 5, 115510.	1.6	13

#	Article	IF	CITATIONS
801	Hierarchical heterostructures of Bi2MoO6 microflowers decorated with Ag2CO3 nanoparticles for efficient visible-light-driven photocatalytic removal of toxic pollutants. Beilstein Journal of Nanotechnology, 2018, 9, 2297-2305.	2.8	15
802	Review on optofluidic microreactors for artificial photosynthesis. Beilstein Journal of Nanotechnology, 2018, 9, 30-41.	2.8	28
803	Enhanced photocatalytic hydrogen energy production of g-C ₃ N ₄ -WO ₃ composites under visible light irradiation. International Journal of Energy Research, 2018, 42, 4667-4673.	4.5	34
804	Engineering the High Concentration of N _{3C} Nitrogen Vacancies Toward Strong Solar Light-Driven Photocatalyst-Based g-C ₃ N ₄ . ACS Applied Energy Materials, 2018, 1, 4716-4723.	5.1	45
805	Promoting effect of cyano groups attached on g-C3N4 nanosheets towards molecular oxygen activation for visible light-driven aerobic coupling of amines to imines. Journal of Catalysis, 2018, 366, 237-244.	6.2	68
806	Relations between Structure, Activity and Stability in C3N4 Based Photocatalysts Used for Solar Hydrogen Production. Catalysts, 2018, 8, 52.	3.5	10
807	Wallâ€Mesoporous Graphitic Carbon Nitride Nanotubes for Efficient Photocatalytic Hydrogen Evolution. Chemistry - an Asian Journal, 2018, 13, 3160-3164.	3.3	22
808	Growth of ZnO Nanorods on Graphitic Carbon Nitride gCN Sheets for the Preparation of Photocatalysts with High Visible‣ight Activity. ChemCatChem, 2018, 10, 4973-4983.	3.7	76
809	Water desalination across multilayer graphitic carbon nitride membrane: Insights from non-equilibrium molecular dynamics simulations. Carbon, 2018, 140, 131-138.	10.3	75
810	Fabrication of TiO ₂ on porous g-C ₃ N ₄ by ALD for improved solar-driven hydrogen evolution. RSC Advances, 2018, 8, 30642-30651.	3.6	11
811	A facile method for scalable synthesis of ultrathin g-C ₃ N ₄ nanosheets for efficient hydrogen production. Journal of Materials Chemistry A, 2018, 6, 18252-18257.	10.3	40
812	Nanocarbons as platforms for developing novel catalytic composites: overview and prospects. Applied Catalysis A: General, 2018, 562, 94-105.	4.3	40
813	Graphitic carbon nitride-carbon nanofiber as oxygen catalyst in anion-exchange membrane water electrolyzer and rechargeable metal–air cells. Applied Catalysis B: Environmental, 2018, 237, 140-148.	20.2	62
814	Facile synthesis of bimodal porous graphitic carbon nitride nanosheets as efficient photocatalysts for hydrogen evolution. Nano Energy, 2018, 50, 376-382.	16.0	58
815	Graphitic-phase carbon nitride-based electrochemiluminescence sensing analyses: recent advances and perspectives. RSC Advances, 2018, 8, 19369-19380.	3.6	25
816	Contrasting transient photocurrent characteristics for thin films of vacuum-doped "grey―TiO2 and "grey―Nb2O5. Applied Catalysis B: Environmental, 2018, 237, 339-352.	20.2	21
817	Zero-Dimensional/Two-Dimensional Au ₂₅ (Cys) ₁₈ Nanoclusters/g-C ₃ N ₄ Nanosheets Composites for Enhanced Photocatalytic Hydrogen Production under Visible Light. ACS Sustainable Chemistry and Engineering, 2018, 6, 8447-8457.	6.7	29
818	Cluster-model DFT simulations of the infrared spectra of triazine-based molecular crystals. Physical Chemistry Chemical Physics, 2018, 20, 20779-20784.	2.8	14

#	Article	IF	CITATIONS
819	Surface Engineering of Carbon Nitride Electrode by Molecular Cobalt Species and Their Photoelectrochemical Application. Chemistry - an Asian Journal, 2018, 13, 1539-1543.	3.3	30
820	Building a direct Z-scheme heterojunction photocatalyst by ZnIn2S4 nanosheets and TiO2 hollowspheres for highly-efficient artificial photosynthesis. Chemical Engineering Journal, 2018, 349, 287-296.	12.7	166
821	Effect of boron and phosphorus codoping on the electronic and optical properties of graphitic carbon nitride monolayers: First-principle simulations. Physical Review B, 2018, 97, .	3.2	43
822	Reconstructing Supramolecular Aggregates to Nitrogen-Deficient g-C ₃ N ₄ Bunchy Tubes with Enhanced Photocatalysis for H ₂ Production. ACS Applied Materials & Interfaces, 2018, 10, 18746-18753.	8.0	97
823	Magnetically recoverable graphitic carbon nitride and NiFe2O4 based magnetic photocatalyst for degradation of oxytetracycline antibiotic in simulated wastewater under solar light. Journal of Environmental Chemical Engineering, 2018, 6, 3874-3883.	6.7	160
824	Photochemical Construction of Carbonitride Structures for Redâ€Light Redox Catalysis. Angewandte Chemie - International Edition, 2018, 57, 8674-8677.	13.8	93
825	The electronic and optical properties of carbon nitride derivatives: A first principles study. Applied Surface Science, 2018, 453, 442-448.	6.1	28
826	Photochemical Construction of Carbonitride Structures for Redâ€Light Redox Catalysis. Angewandte Chemie, 2018, 130, 8810-8813.	2.0	28
827	Overview on microfluidic reactors in photocatalysis: Applications of graphene derivatives. Catalysis Today, 2018, 315, 79-92.	4.4	49
828	Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. Journal of Materials Chemistry A, 2018, 6, 12876-12931.	10.3	215
829	Biomimetic Donor–Acceptor Motifs in Conjugated Polymers for Promoting Exciton Splitting and Charge Separation. Angewandte Chemie - International Edition, 2018, 57, 8729-8733.	13.8	190
830	Promoting magnesium sulfite oxidation <i>via</i> partly oxidized metal nanoparticles on graphitic carbon nitride (g-C ₃ N ₄) in the magnesia desulfurization process. Journal of Materials Chemistry A, 2018, 6, 11296-11305.	10.3	23
831	Visibleâ€Lightâ€Driven Chemoselective Hydrogenation of Nitroarenes to Anilines in Water through Graphitic Carbon Nitride Metalâ€Free Photocatalysis. Chemistry - an Asian Journal, 2018, 13, 1950-1955.	3.3	23
832	Double defects modified carbon nitride nanosheets with enhanced photocatalytic hydrogen evolution. Physical Chemistry Chemical Physics, 2018, 20, 17471-17476.	2.8	26
833	Carbon Nitride/Reduced Graphene Oxide Film with Enhanced Electron Diffusion Length: An Efficient Photoâ€Electrochemical Cell for Hydrogen Generation. Advanced Energy Materials, 2018, 8, 1800566.	19.5	83
834	lonothermal Synthesis of Triazine–Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60 % at 420â€nm for Solar Hydrogen Production from "Sea Water― Angewandte Chemie - International Edition, 2018, 57, 9372-9376.	13.8	369
835	Metal-free dual-phase full organic carbon nanotubes/g-C3N4 heteroarchitectures for photocatalytic hydrogen production. Nano Energy, 2018, 50, 468-478.	16.0	133
836	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. ACS Applied Materials & amp; Interfaces, 2018, 10, 21035-21055.	8.0	266

#	Article	IF	CITATIONS
837	A Spatially Confined gC ₃ N ₄ –Pt Electrocatalyst with Robust Stability. ACS Applied Materials & Interfaces, 2018, 10, 21306-21312.	8.0	13
838	One-Step Nickel Foam Assisted Synthesis of Holey G-Carbon Nitride Nanosheets for Efficient Visible-Light Photocatalytic H ₂ Evolution. ACS Applied Materials & Interfaces, 2018, 10, 20521-20529.	8.0	81
839	Construction of functional nanonetwork-structured carbon nitride with Au nanoparticle yolks for highly efficient photocatalytic applications. Chemical Communications, 2018, 54, 7159-7162.	4.1	48
840	Graphite carbon nitride/boron-doped graphene hybrid for efficient hydrogen generation reaction. Nanotechnology, 2018, 29, 345705.	2.6	23
841	Facile synthesis of noble-metal free polygonal Zn2TiO4 nanostructures for highly efficient photocatalytic hydrogen evolution under solar light irradiation. International Journal of Hydrogen Energy, 2018, 43, 13145-13157.	7.1	30
842	Cadmium sulfide-based nanomaterials for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2018, 6, 11606-11630.	10.3	379
843	Significant Enhancement of Photoactivity in Hybrid TiO ₂ /g-C ₃ N ₄ Nanorod Catalysts Modified with Cu–Ni-Based Nanostructures. ACS Applied Nano Materials, 2018, 1, 2526-2535.	5.0	40
844	g-C ₃ N ₄ @α-Fe ₂ O ₃ /C Photocatalysts: Synergistically Intensified Charge Generation and Charge Transfer for NADH Regeneration. ACS Catalysis, 2018, 8, 5664-5674.	11.2	165
845	Li–Ionâ€Conducting Pillar‣ike Graphitic Carbon Nitrides as Novel Anodes for Li–Ion Batteries. ChemistrySelect, 2018, 3, 5364-5376.	1.5	7
846	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75.	10.3	20
846 847	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75. Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744.	10.3 6.1	20 63
846 847 848	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75. Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744. Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034.	10.3 6.1 7.4	20 63 105
846 847 848 849	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75. Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744. Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034. Crystalâ€Face Tailored Graphitic Carbon Nitride Films for Highâ€Performance Photoelectrochemical Cells. ChemSusChem, 2018, 11, 2497-2501.	10.3 6.1 7.4 6.8	20 63 105 34
846 847 848 849 850	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75. Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744. Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034. Crystalâ€Face Tailored Graphitic Carbon Nitride Films for Highâ€Performance Photoelectrochemical cells. ChemSusChem, 2018, 11, 2497-2501. In-situ grown nanocrystal TiO2 on 2D Ti3C2 nanosheets for artificial photosynthesis of chemical fuels. Nano Energy, 2018, 51, 442-450.	10.3 6.1 7.4 6.8 16.0	20 63 105 34 127
846 847 848 849 850 851	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75. Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744. Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034. Crystalâ€Face Tailored Graphitic Carbon Nitride Films for Highâ€Performance Photoelectrochemical Cells. ChemSusChem, 2018, 11, 2497-2501. In-situ grown nanocrystal TiO2 on 2D Ti3C2 nanosheets for artificial photosynthesis of chemical fuels. Nano Energy, 2018, 51, 442-450. Enhanced Photocatalytic H ₂ -Production Activity of g-C ₃ N ₄ Nanosheets via Optimal Photodeposition of Pt as Cocatalyst. ACS Sustainable Chemistry and Engineering, 2018, 6, 10472-10480.	 10.3 6.1 7.4 6.8 16.0 6.7 	20 63 105 34 127 166
 846 847 848 849 850 851 852 	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75.Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744.Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034.Crystalâ€Face Tailored Graphitic Carbon Nitride Films for Highâ€Performance Photoelectrochemical Cells. ChemSusChem, 2018, 11, 2497-2501.In-situ grown nanocrystal TiO2 on 2D Ti3C2 nanosheets for artificial photosynthesis of chemical fuels. Nano Energy, 2018, 51, 442-450.Enhanced Photocatalytic H ₂ -Production Activity of g-C ₃ N ₄ Nanosheets via Optimal Photodeposition of Pt as Cocatalyst. ACS Sustainable Chemistry and Engineering, 2018, 6, 10472-10480.A nanoclay-induced defective g-C ₃ N ₄ photocatalytic for highly efficient catalytic reactions. Chemical Communications, 2018, 54, 8249-8252.	 10.3 6.1 7.4 6.8 16.0 6.7 4.1 	20 63 105 34 127 166
 846 847 848 849 850 851 852 853 	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75. Adjustable photocatalytic ability of monolayer g-C3N4 utilizing single–metal atom: Density functional theory. Applied Surface Science, 2018, 457, 735-744. Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034. Crystalâ€Face Tailored Graphitic Carbon Nitride Films for Highâ€Performance Photoelectrochemical Cells. ChemSusChem, 2018, 11, 2497-2501. In-situ grown nanocrystal TiO2 on 2D Ti3C2 nanosheets for artificial photosynthesis of chemical fuels. Nano Energy, 2018, 51, 442-450. Enhanced Photocatalytic H ₂ -Production Activity of g-C ₃ N ₄ Nanosheets via Optimal Photodeposition of Pt as Cocatalyst. ACS Sustainable Chemistry and Engineering, 2018, 6, 10472-10480. A nanoclay-induced defective g-C ₃ N ₄ photocatalyst for highly efficient catalytic reactions. Chemical Communications, 2018, 54, 8249-8252. Efficient spatial charge separation and transfer in ultrathin g-C ₃ N ₄ nanosheets modified with Cu ₂ MoS ₄ as a noble metal-free co-catalyst for superior visible light-driven photocatalytic water splitting. Catalysis Science and Technology, 2018, 8, 3883.	 10.3 6.1 7.4 6.8 16.0 6.7 4.1 4.1 	20 63 105 34 127 166 33

#	Article	IF	CITATIONS
855	Steam engraving optimization of graphitic carbon nitride with enhanced photocatalytic hydrogen evolution. Carbon, 2018, 139, 189-194.	10.3	20
856	Enhancing ROS generation and suppressing toxic intermediate production in photocatalytic NO oxidation on O/Ba co-functionalized amorphous carbon nitride. Applied Catalysis B: Environmental, 2018, 237, 938-946.	20.2	134
857	New two-dimensional porous graphitic carbon nitride nanosheets for highly efficient photocatalytic hydrogen evolution under visible-light irradiation. Catalysis Science and Technology, 2018, 8, 3846-3852.	4.1	32
858	Fe(III) @g-C3N4 nanocomposite-catalyzed green synthesis of di-indolyloxindole derivatives. Research on Chemical Intermediates, 2018, 44, 6741-6751.	2.7	5
859	Visible Light-Responsive Photocatalysts—From TiO2 to Carbon Nitrides and Boron Carbon Nitride. Advances in Inorganic Chemistry, 2018, 72, 49-92.	1.0	9
860	Boron- and phenyl-codoped graphitic carbon nitride with greatly enhanced light responsive range for photocatalytic disinfection. Journal of Hazardous Materials, 2018, 358, 62-68.	12.4	32
861	Cobalt disulfide/graphitic carbon nitride as an efficient photocatalyst for hydrogen evolution reaction under visible light irradiation. Materials Letters, 2018, 229, 217-220.	2.6	21
862	Two-dimensional metal–organic framework nanosheets: synthesis and applications. Chemical Society Reviews, 2018, 47, 6267-6295.	38.1	978
863	Metalâ€Free Flexible Protonated gâ€C ₃ N ₄ /Carbon Dots Photoanode for Photoelectrochemical Water Splitting. ChemElectroChem, 2018, 5, 2734-2737.	3.4	24
864	In-situ microwave-assisted heating synthesis of a high-performance g-C 3 N 4 /carbon nanotubes composite photocatalyst with good contact interfaces. Materials Research Bulletin, 2018, 106, 152-161.	5.2	26
865	Synthesis of MoS2/YVO4 composite and its high photocatalytic performance in methyl orange degradation and H2 evolution. Solar Energy, 2018, 171, 426-434.	6.1	32
866	Defective Anatase TiO _{2â^'<i>x</i>} Mesocrystal Growth In Situ on gâ€C ₃ N ₄ Nanosheets: Construction of 3D/2D Zâ€Scheme Heterostructures for Highly Efficient Visibleâ€Light Photocatalysis. Chemistry - A European Journal, 2018, 24, 13311-13321.	3.3	46
867	Unraveling structural properties of Cu2O loaded on gC3N4 for enhanced photocatalytic hydrogen generation. Materials Research Express, 2018, 5, 065519.	1.6	17
868	Synthesis of g-C3N4/BiOI/BiOBr heterostructures for efficient visible-light-induced photocatalytic and antibacterial activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 14300-14310.	2.2	40
869	Switching charge transfer process of carbon nitride and bismuth vanadate by anchoring silver nanoparticle toward cocatalyst free water reduction. Journal of Colloid and Interface Science, 2018, 529, 375-384.	9.4	27
870	Hydrogenation of Pyridines Using a Nitrogenâ€Modified Titaniaâ€Supported Cobalt Catalyst. Angewandte Chemie, 2018, 130, 14696-14700.	2.0	7
871	Single atom accelerates ammonia photosynthesis. Science China Chemistry, 2018, 61, 1187-1196.	8.2	107
872	TiO2 faceted nanocrystals on the nanofibers: Homojunction TiO2 based Z-scheme photocatalyst for air purification. Applied Surface Science, 2018, 456, 817-826.	6.1	59

#	Article	IF	CITATIONS
873	MoS2 quantum dots embedded in g-C3N4 frameworks: A hybrid 0D-2D heterojunction as an efficient visible-light driven photocatalyst. Applied Surface Science, 2018, 457, 30-40.	6.1	56
874	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. Chemical Reviews, 2018, 118, 6409-6455.	47.7	711
875	Facile Synthesis of Self-Assembled <i>g</i> -C ₃ N ₄ with Abundant Nitrogen Defects for Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 10200-10210.	6.7	93
876	Three-dimensional flower-like phosphorus-doped g-C ₃ N ₄ with a high surface area for visible-light photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 16485-16494.	10.3	148
877	Honeycomb-like carbon nitride through supramolecular preorganization of monomers for high photocatalytic performance under visible light irradiation. Chemosphere, 2018, 211, 324-334.	8.2	48
878	Enhanced Baseâ€Free Formic Acid Production from CO ₂ on Pd/gâ€C ₃ N ₄ by Tuning of the Carrier Defects. ChemSusChem, 2018, 11, 2859-2869.	6.8	47
879	One-step synthesis of sulfur and tungstate co-doped porous g-C3N4 microrods with remarkably enhanced visible-light photocatalytic performances. Applied Surface Science, 2018, 462, 991-1001.	6.1	49
880	CoSe/Co nanoparticles wrapped by in situ grown N-doped graphitic carbon nanosheets as anode material for advanced lithium ion batteries. Journal of Power Sources, 2018, 399, 223-230.	7.8	70
881	High wear-resistant performance of thermosetting polyimide reinforced by graphitic carbon nitride (g-C3N4) under high temperature. Composites Part A: Applied Science and Manufacturing, 2018, 113, 200-208.	7.6	68
882	Photocatalytic Decomposition of Paraquat Under Visible Light by Carbon Nitride and Hydrogen Peroxide. Optik, 2018, 172, 1047-1056.	2.9	19
883	2D/2D g-C3N4/MgFe MMO nanosheet heterojunctions with enhanced visible-light photocatalytic H2 production. Journal of Alloys and Compounds, 2018, 769, 611-619.	5.5	40
884	Surface defect-mediated efficient electron-hole separation in hierarchical flower-like bismuth molybdate hollow spheres for enhanced visible-light-driven photocatalytic performance. Journal of Colloid and Interface Science, 2018, 531, 664-671.	9.4	25
885	Unique physicochemical properties of two-dimensional light absorbers facilitating photocatalysis. Chemical Society Reviews, 2018, 47, 6410-6444.	38.1	178
886	Highly Bendable Ionic Soft Actuator Based on Nitrogenâ€Enriched 3D Heteroâ€Nanostructure Electrode. Advanced Functional Materials, 2018, 28, 1802464.	14.9	51
887	Construction of 3D porous g-C3N4/AgBr/rGO composite for excellent visible light photocatalytic activity. Applied Surface Science, 2018, 458, 586-596.	6.1	88
888	Dibenzothiopheneâ€ <i>S</i> , <i>S</i> â€Dioxideâ€Based Conjugated Polymers: Highly Efficient Photocatalyts for Hydrogen Production from Water under Visible Light. Small, 2018, 14, e1801839.	10.0	96
889	Single-Layered Two-Dimensional Metal–Organic Framework Nanosheets as an in Situ Visual Test Paper for Solvents. ACS Applied Materials & Interfaces, 2018, 10, 28860-28867.	8.0	64
890	Perovskite-structured CaTiO ₃ coupled with g-C ₃ N ₄ as a heterojunction photocatalyst for organic pollutant degradation. Beilstein Journal of Nanotechnology, 2018, 9, 671-685.	2.8	116

#	Article	IF	CITATIONS
891	Interfacial Chemistry of Low-Dimensional Systems for Applications in Nanocatalysis. European Journal of Inorganic Chemistry, 2018, 2018, 4311-4321.	2.0	6
892	Ag ₂ WO ₄ nanorods decorated with Agl nanoparticles: Novel and efficient visible-light-driven photocatalysts for the degradation of water pollutants. Beilstein Journal of Nanotechnology, 2018, 9, 1308-1316.	2.8	22
893	Facile preparation with high yield of a 3D porous graphitic carbon nitride for dramatically enhanced photocatalytic H2 evolution under visible light. Applied Catalysis B: Environmental, 2018, 238, 294-301.	20.2	50
894	Nitrogen Fixation with Water on Carbon-Nitride-Based Metal-Free Photocatalysts with 0.1% Solar-to-Ammonia Energy Conversion Efficiency. ACS Applied Energy Materials, 2018, 1, 4169-4177.	5.1	103
895	Development of g-C3N4/TiO2/Fe3O4@SiO2 heterojunction via sol-gel route: A magnetically recyclable direct contact Z-scheme nanophotocatalyst for enhanced photocatalytic removal of ibuprofen from real sewage effluent under visible light. Chemical Engineering Journal, 2018, 353, 645-656.	12.7	123
896	Stable, metal-free, visible-light-driven photocatalyst for efficient removal of pollutants: Mechanism of action. Journal of Colloid and Interface Science, 2018, 531, 433-443.	9.4	56
897	Nitrogen Containing Linear Poly(phenylene) Derivatives for Photo-catalytic Hydrogen Evolution from Water. Chemistry of Materials, 2018, 30, 5733-5742.	6.7	88
898	A Mn ₁₃ -cluster based coordination polymer as a co-catalyst of CdS for enhanced visible-light driven H ₂ evolution. Dalton Transactions, 2018, 47, 10857-10860.	3.3	7
899	Sugarcane juice derived carbon dot–graphitic carbon nitride composites for bisphenol A degradation under sunlight irradiation. Beilstein Journal of Nanotechnology, 2018, 9, 353-363.	2.8	38
900	Selective Production of Benzaldehyde Using Metalâ€Free Reduced Graphene Oxide/Carbon Nitride Hybrid Photocatalysts. ChemistrySelect, 2018, 3, 8070-8081.	1.5	14
901	Graphene oxide based soil moisture microsensor for in situ agriculture applications. Sensors and Actuators B: Chemical, 2018, 273, 1660-1669.	7.8	57
902	Cellulose nanofibrils anchored Ag on graphitic carbon nitride for efficient photocatalysis under visible light. Environmental Science: Nano, 2018, 5, 2129-2143.	4.3	27
903	In-situ construction of 2D direct Z-scheme g-C3N4/g-C3N4 homojunction with high photocatalytic activity. Journal of Materials Science, 2018, 53, 15882-15894.	3.7	52
904	Mechanism of Photocatalytic Water Oxidation by Graphitic Carbon Nitride. Journal of Physical Chemistry Letters, 2018, 9, 4695-4699.	4.6	22
905	A photocatalytic degradation strategy of PPCPs by a heptazine-based CN organic polymer (OCN) under visible light. Environmental Science: Nano, 2018, 5, 2325-2336.	4.3	47
906	A dual-reaction-center Fenton-like process on –Cî€,N–Cu linkage between copper oxides and defect-containing g-C ₃ N ₄ for efficient removal of organic pollutants. Journal of Materials Chemistry A, 2018, 6, 17819-17828.	10.3	73
907	Perovskite Oxide LaNiO ₃ Nanoparticles for Boosting H ₂ Evolution over Commercial CdS with Visible Light. Chemistry - A European Journal, 2018, 24, 18512-18517.	3.3	69
908	Two-dimensional polymeric carbon nitride: structural engineering for optimizing photocatalysis. Science China Chemistry, 2018, 61, 1205-1213.	8.2	50

#	Article	IF	CITATIONS
909	Azine-based covalent organic frameworks as metal-free visible light photocatalysts for CO2 reduction with H2O. Applied Catalysis B: Environmental, 2018, 239, 46-51.	20.2	203
910	Metal Organic Framework Derived Materials: Progress and Prospects for the Energy Conversion and Storage. Advanced Materials, 2018, 30, e1705146.	21.0	376
911	Strongly Coupled g ₃ N ₄ Nanosheets o ₃ O ₄ Quantum Dots as 2D/0D Heterostructure Composite for Peroxymonosulfate Activation. Small, 2018, 14, e1801353.	10.0	284
912	g-C3N4-Based Nanomaterials for Visible Light-Driven Photocatalysis. Catalysts, 2018, 8, 74.	3.5	188
913	Solid-Solution-Like o-C3N4/Ag2SO4 Nanocomposite as a Direct Z-Scheme Photocatalytic System for Photosynthesis of Active Oxygen Species. ACS Sustainable Chemistry and Engineering, 2018, 6, 10905-10913.	6.7	28
914	Z-scheme 2D/3D g-C3N4@ZnO with enhanced photocatalytic activity for cephalexin oxidation under solar light. Chemical Engineering Journal, 2018, 352, 412-422.	12.7	192
915	Construction of 2D/2D layered g-C ₃ N ₄ /Bi ₁₂ O ₁₇ Cl ₂ hybrid material with matched energy band structure and its improved photocatalytic performance. RSC Advances, 2018, 8, 24500-24508.	3.6	43
916	The construction and enhanced photocatalytic performance of binary composite S/g-C3N4. Materials Science in Semiconductor Processing, 2018, 87, 1-6.	4.0	17
917	Carbon Nitride Materials as Efficient Catalyst Supports for Proton Exchange Membrane Water Electrolyzers. Nanomaterials, 2018, 8, 432.	4.1	17
918	A Novel "Off-On―Fluorescent Probe Based on Carbon Nitride Nanoribbons for the Detection of Citrate Anion and Live Cell Imaging. Sensors, 2018, 18, 1163.	3.8	7
919	Synthesis of BN/g ₃ N ₄ as Visibleâ€lightâ€driven Photocatalysts for Degradation of Different Organic Pollutants. ChemistrySelect, 2018, 3, 7170-7177.	1.5	17
920	Twoâ€Dimensional Materials for Antimicrobial Applications: Graphene Materials and Beyond. Chemistry - an Asian Journal, 2018, 13, 3378-3410.	3.3	104
921	Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research, 2018, 144, 215-225.	11.3	481
922	Label-Free Simultaneous Analysis of Fe(III) and Ascorbic Acid Using Fluorescence Switching of Ultrathin Graphitic Carbon Nitride Nanosheets. ACS Applied Materials & Interfaces, 2018, 10, 26118-26127.	8.0	95
923	Controllable synthesis of graphitic carbon nitride nanomaterials for solar energy conversion and environmental remediation: the road travelled and the way forward. Catalysis Science and Technology, 2018, 8, 4576-4599.	4.1	99
924	Where do photogenerated holes at the g-C ₃ N ₄ /water interface go for water splitting: H ₂ O or OH ^{â~} ?. Nanoscale, 2018, 10, 15624-15631.	5.6	39
925	Highly crystalline sulfur-doped carbon nitride as photocatalyst for efficient visible-light hydrogen generation. Applied Catalysis B: Environmental, 2018, 238, 592-598.	20.2	171
926	Highly efficient photoelectrocatalytic reduction of CO ₂ on the Ti ₃ C ₂ /g-C ₃ N ₄ heterojunction with rich Ti ³⁺ and pyri-N species. Journal of Materials Chemistry A, 2018, 6, 15213-15220.	10.3	85

#	Article	IF	CITATIONS
927	Gradual carbon doping of graphitic carbon nitride towards metal-free visible light photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 15310-15319.	10.3	108
928	Leafâ€Mosaicâ€Inspired Vineâ€Like Graphitic Carbon Nitride Showing High Light Absorption and Efficient Photocatalytic Hydrogen Evolution. Advanced Energy Materials, 2018, 8, 1801139.	19.5	115
929	Conversion of Lignin Models by Photoredox Catalysis. ChemSusChem, 2018, 11, 3071-3080.	6.8	39
930	Interactions between ZnO nanoparticles and amorphous g-C3N4 nanosheets in thermal formation of g-C3N4/ZnO composite materials: The annealing temperature effect. Applied Surface Science, 2018, 458, 369-381.	6.1	53
931	Conductive two-dimensional metal–organic frameworks as multifunctional materials. Chemical Communications, 2018, 54, 7873-7891.	4.1	373
932	Graphitic carbon nitride nanosheets anchored with BiOBr and carbon dots: Exceptional visible-light-driven photocatalytic performances for oxidation and reduction reactions. Journal of Colloid and Interface Science, 2018, 530, 642-657.	9.4	65
933	Magnetically Recyclable Fe ₃ O ₄ @Zn _{<i>x</i>} Cd _{1–<i>x</i>} S Core–Shell Microspheres for Visible Light-Mediated Photocatalysis. Langmuir, 2018, 34, 9264-9271.	3.5	25
934	Confining the polymerization degree of graphitic carbon nitride in porous zeolite-Y and its luminescence. RSC Advances, 2018, 8, 25057-25064.	3.6	10
935	In Situ Growth of Pd Nanosheets on gâ€C ₃ N ₄ Nanosheets with Wellâ€Contacted Interface and Enhanced Catalytic Performance for 4â€Nitrophenol Reduction. Small, 2018, 14, e1801812.	10.0	74
936	Pompon-like structured g-C3N4/ZnO composites and their application in visible light photocatalysis. Research on Chemical Intermediates, 2018, 44, 6895-6906.	2.7	19
937	Carbon nitride photocatalysts. , 2018, , 103-126.		1
938	Construction of Sn/oxide g-C3N4 nanostructure by electrostatic self-assembly strategy with enhanced photocatalytic degradation performance. Applied Surface Science, 2018, 457, 1035-1043.	6.1	17
939	Influence of hydrogen peroxide in enhancing photocatalytic activity of carbon nitride under visible light: An insight into reaction intermediates. Journal of Environmental Chemical Engineering, 2018, 6, 4927-4936.	6.7	52
940	Zinc oxide-graphitic carbon nitride nanohybrid as an efficient electrochemical sensor and photocatalyst. Sensors and Actuators B: Chemical, 2018, 277, 467-476.	7.8	60
941	Epigrammatic progress and perspective on the photocatalytic properties of BiVO4-based photocatalyst in photocatalytic water treatment technology: A review. Journal of Molecular Liquids, 2018, 268, 438-459.	4.9	104
942	Self-assembly of yolk-shell porous Fe-doped g-C3N4 microarchitectures with excellent photocatalytic performance under visible light. Sustainable Materials and Technologies, 2018, 17, e00072.	3.3	4
943	Study on the pyrolysis of ammonium thiocyanate and its product formation characteristics in H2. Journal of Analytical and Applied Pyrolysis, 2018, 134, 427-438.	5.5	8
944	Mesoporous ferriferrous oxide nanoreactors modified on graphitic carbon nitride towards improvement of physical, photoelectrochemical properties and photocatalytic performance. Journal of Colloid and Interface Science, 2018, 531, 331-342.	9.4	113

#	ARTICLE Visible-light-driven activity and synergistic mechanism of	IF	CITATIONS
945	TiO ₂ @g-C ₃ N ₄ heterostructured photocatalysts fabricated through a facile and green procedure for various toxic pollutants removal. Nanotechnology, 2018, 29, 315601.	2.6	28
946	Controlled fabrication of TiO2/C3N4 core–shell nanowire arrays: a visible-light-responsive and environmental-friendly electrode for photoelectrocatalytic degradation of bisphenol A. Journal of Materials Science, 2018, 53, 11015-11026.	3.7	22
947	Computational study on the half-metallicity in transition metal—oxide-incorporated 2D g-C3N4 nanosheets. Frontiers of Physics, 2018, 13, 1.	5.0	11
948	Multifunctional performance of gC3N4-BiFeO3-Cu2O hybrid nanocomposites for magnetic separable photocatalytic and antibacterial activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 10784-10801.	2.2	46
949	Review on nanoscale Bi-based photocatalysts. Nanoscale Horizons, 2018, 3, 464-504.	8.0	421
950	Morphology and band structure regulation of graphitic carbon nitride microspheres by solvothermal temperature to boost photocatalytic activity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	22
951	Photocatalytic desulfurization of thiophene base on molecular oxygen and zinc phthalocyanine/g-C3N4. Research on Chemical Intermediates, 2018, 44, 5547-5557.	2.7	15
952	Direct Observation of Carbon Nitride-Stabilized Pickering Emulsions. Langmuir, 2018, 34, 10135-10143.	3.5	25
953	Cu nanocrystal enhancement of C ₃ N ₄ /Cu hetero-structures and new applications in photo-electronic catalysis: hydrazine oxidation and redox reactions of organic molecules. Inorganic Chemistry Frontiers, 2018, 5, 2420-2424.	6.0	9
954	Reduced recombination and low-resistive transport of electrons for photo-redox reactions in metal-free hybrid photocatalyst. Applied Physics Letters, 2018, 112, .	3.3	23
955	Cr(VI) remediation from aqueous environment through modified-TiO ₂ -mediated photocatalytic reduction. Beilstein Journal of Nanotechnology, 2018, 9, 1448-1470.	2.8	102
956	Layered Heterostructures of Ultrathin Polymeric Carbon Nitride and ZnIn ₂ S ₄ Nanosheets for Photocatalytic CO ₂ Reduction. Chemistry - A European Journal, 2018, 24, 18529-18534.	3.3	116
957	Understanding the roles of plasmonic Au nanocrystal size, shape, aspect ratio and loading amount in Au/g-C ₃ N ₄ hybrid nanostructures for photocatalytic hydrogen generation. Physical Chemistry Chemical Physics, 2018, 20, 22296-22307.	2.8	57
958	Vertically Aligned Porous Organic Semiconductor Nanorod Array Photoanodes for Efficient Charge Utilization. Nano Letters, 2018, 18, 5954-5960.	9.1	52
959	Construction of Bi2WO6/RGO/g-C3N4 2D/2D/2D hybrid Z-scheme heterojunctions with large interfacial contact area for efficient charge separation and high-performance photoreduction of CO2 and H2O into solar fuels. Applied Catalysis B: Environmental, 2018, 239, 586-598.	20.2	278
960	Facile synthesis of g-C3N4/amine-functionalized MIL-101(Fe) composites with efficient photocatalytic activities under visible light irradiation. Journal of Materials Science: Materials in Electronics, 2018, 29, 17591-17601.	2.2	48
961	Enhanced charge separation ability and visible light photocatalytic performance of graphitic carbon nitride by binary S, B co-doping. Materials Research Bulletin, 2018, 107, 477-483.	5.2	39
962	Preparation of oxygen-doped graphitic carbon nitride and its visible-light photocatalytic performance on bisphenol A degradation. Water Science and Technology, 2018, 78, 1023-1033.	2.5	30

#	Article	IF	CITATIONS
963	Photoelectrochemical Device Designs toward Practical Solar Water Splitting: A Review on the Recent Progress of BiVO4 and BiFeO3 Photoanodes. Applied Sciences (Switzerland), 2018, 8, 1388.	2.5	32
964	Sodiumâ€Ðoped C ₃ N ₄ /MOF Heterojunction Composites with Tunable Band Structures for Photocatalysis: Interplay between Light Harvesting and Electron Transfer. Chemistry - A European Journal, 2018, 24, 18403-18407.	3.3	85
965	Tuning the Intrinsic Properties of Carbon Nitride for High Quantum Yield Photocatalytic Hydrogen Production. Advanced Science, 2018, 5, 1800820.	11.2	92
966	Carbon dioxide droplets stabilized by g-C ₃ N ₄ . Green Chemistry, 2018, 20, 4206-4209.	9.0	9
967	Well-regulated nickel nanoparticles functional modified ZIF-67 (Co) derived Co3O4/CdS p-n heterojunction for efficient photocatalytic hydrogen evolution. Applied Surface Science, 2018, 462, 213-225.	6.1	129
968	Visible light induced efficient hydrogen production through semiconductor–conductor–semiconductor (S–C–S) interfaces formed between g-C ₃ N ₄ and rGO/Fe ₂ O ₃ core–shell composites. Catalysis Science and Technology, 2018, 8, 5081-5090.	4.1	39
969	Unravelling the electrochemical mechanisms for nitrogen fixation on single transition metal atoms embedded in defective graphitic carbon nitride. Journal of Materials Chemistry A, 2018, 6, 21941-21948.	10.3	161
970	Self-assembly synthesis of boron-doped graphitic carbon nitride hollow tubes for enhanced photocatalytic NOx removal under visible light. Applied Catalysis B: Environmental, 2018, 239, 352-361.	20.2	154
971	Electronic and Optical Properties of 2D Materials Constructed from Light Atoms. Advanced Materials, 2018, 30, e1801600.	21.0	36
972	A mesoporous tungsten carbide nanostructure as a promising cathode catalyst decreases overpotential in Li–O ₂ batteries. RSC Advances, 2018, 8, 27973-27978.	3.6	5
973	First-principle investigation on charge carrier transfer in transition-metal single atoms loaded g-C3N4. Applied Surface Science, 2018, 459, 385-392.	6.1	43
974	BODIPY modified g-C3N4 as a highly efficient photocatalyst for degradation of Rhodamine B under visible light irradiation. Journal of Solid State Chemistry, 2018, 267, 22-27.	2.9	13
975	Mechanistic insights into plasmonic photocatalysts in utilizing visible light. Beilstein Journal of Nanotechnology, 2018, 9, 628-648.	2.8	54
976	Novel Zn _{0.8} Cd _{0.2} S@g-C ₃ N ₄ core–shell heterojunctions with a twin structure for enhanced visible-light-driven photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2018, 6, 17086-17094.	10.3	85
977	Core-shell Ag2CrO4/N-GQDs@g-C3N4 composites with anti-photocorrosion performance for enhanced full-spectrum-light photocatalytic activities. Applied Catalysis B: Environmental, 2018, 239, 525-536.	20.2	147
978	In situ construction of layered K3Ti5NbO14/g-C3N4 composite for improving visible-light-driven photocatalytic performance. Journal of Materials Science: Materials in Electronics, 2018, 29, 15859-15868.	2.2	12
979	Extended Visible Light Absorption Combined with Promoted Charge Carrier Transfer in Urea-Derived Graphitic Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution Performances. Journal of Physical Chemistry C, 2018, 122, 20717-20726.	3.1	20
980	Half-metallic carbon nitride nanosheets with micro grid mode resonance structure for efficient photocatalytic hydrogen evolution. Nature Communications, 2018, 9, 3366.	12.8	219

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#	Article	IF	CITATIONS
981	Ionothermal Synthesis of Triazine–Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from "Sea Water― Angewandte Chemie, 2018, 130, 9516-952	0 ^{2.0}	73
982	Shining Light on Carbon Nitrides: Leveraging Temperature To Understand Optical Gap Variations. Chemistry of Materials, 2018, 30, 4253-4262.	6.7	28
983	Efficient and stable photocatalytic NO removal on C self-doped g-C ₃ N ₄ : electronic structure and reaction mechanism. Catalysis Science and Technology, 2018, 8, 3387-3394.	4.1	60
984	Biomimetic Donor–Acceptor Motifs in Conjugated Polymers for Promoting Exciton Splitting and Charge Separation. Angewandte Chemie, 2018, 130, 8865-8869.	2.0	26
985	Mechanochemistry: Toward Sustainable Design of Advanced Nanomaterials for Electrochemical Energy Storage and Catalytic Applications. ACS Sustainable Chemistry and Engineering, 2018, 6, 9530-9544.	6.7	130
986	Single atom catalyst towards ammonia synthesis at mild conditions. Science China Chemistry, 2018, 61, 1045-1046.	8.2	10
987	Graphitic carbon nitride/BiOI loaded on electrospun silica nanofibers with enhanced photocatalytic activity. Applied Surface Science, 2018, 455, 952-962.	6.1	46
988	Investigation of the initial reactions of lithium oxides on the graphitic carbon nitrides (g-C3N4) for catalyst in non-aqueous lithium - air batteries: A first-principles calculations. Thin Solid Films, 2018, 660, 186-190.	1.8	6
989	Synthesis of heterometallic metal–organic frameworks and their performance as electrocatalyst for CO ₂ reduction. RSC Advances, 2018, 8, 21092-21099.	3.6	108
990	Interfacial Engineering of a Carbon Nitride–Graphene Oxide–Molecular Ni Catalyst Hybrid for Enhanced Photocatalytic Activity. ACS Catalysis, 2018, 8, 6914-6926.	11.2	52
991	Facile synthesis of NiS ₂ nanoparticles ingrained in a sulfur-doped carbon nitride framework with enhanced visible light photocatalytic activity: two functional roles of thiourea. Journal of Materials Chemistry A, 2018, 6, 13448-13466.	10.3	65
992	Reduced graphene oxide coupled with g-C3N4 nanodots as 2D/0D nanocomposites for enhanced photocatalytic activity. Journal of Physics and Chemistry of Solids, 2018, 122, 104-108.	4.0	27
993	Preparation of Agâ€doped gâ€C ₃ N ₄ Nano Sheet Decorated Magnetic γâ€Fe ₂ O ₃ @SiO ₂ Core–Shell Hollow Spheres through a Novel Hydrothermal Procedure: Investigation of the Catalytic activity for A ³ , KA ² Coupling Reactions and [3Â+Â2] Cycloaddition. Applied Organometallic Chemistry, 2018, 32, e4413.	3.5	25
994	Halogen-hydrogen bonds: A general synthetic approach for highly photoactive carbon nitride with tunable properties. Applied Catalysis B: Environmental, 2018, 237, 681-688.	20.2	44
995	Interface-Assisted Synthesis of 2D Materials: Trend and Challenges. Chemical Reviews, 2018, 118, 6189-6235.	47.7	505
996	Singleâ€Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1802169.	14.9	287
997	Improvement of the photocatalytic hydrogen production activity of g-C3N4 by doping selenides as cocatalysts. Materials Science in Semiconductor Processing, 2018, 85, 76-82.	4.0	11
998	Highly Efficient Visible-Light-Driven Schottky Catalyst MoN/2D g-C ₃ N ₄ for Hydrogen Production and Organic Pollutants Degradation. Industrial & Engineering Chemistry Research, 2018, 57, 8863-8870	3.7	35

#	Article	IF	CITATIONS
999	Hydrogenation of Pyridines Using a Nitrogenâ€Modified Titaniaâ€&upported Cobalt Catalyst. Angewandte Chemie - International Edition, 2018, 57, 14488-14492.	13.8	42
1000	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nanoâ€networks as Efficient Photoanodes for Water Oxidation. ChemSusChem, 2018, 11, 2510-2516.	6.8	25
1001	Self-assembly of tungstophosphoric acid/acidified carbon nitride hybrids with enhanced visible-light-driven photocatalytic activity for the degradation of imidacloprid and acetamiprid. Applied Surface Science, 2018, 456, 259-269.	6.1	40
1002	Novel g < ₃ N ₄ nanosheets/CDs/BiOCl photocatalysts with exceptional activity under visible light. Journal of the American Ceramic Society, 2019, 102, 1435-1453.	3.8	81
1003	Twoâ€dimensional nanomaterials for photocatalytic water disinfection: recent progress and future challenges. Journal of Chemical Technology and Biotechnology, 2019, 94, 22-37.	3.2	76
1004	Photoresponsive polymeric carbon nitride-based materials: Design and application. Materials Today, 2019, 23, 72-86.	14.2	82
1005	Enhanced catalytic reduction of nitrophenols by sodium borohydride over highly recyclable Au@graphitic carbon nitride nanocomposites. Applied Catalysis B: Environmental, 2019, 240, 337-347.	20.2	153
1006	Reflectance and color purity obtained for novel Ti C N/Ti Nb C N multilayers as function of niobium (Nb) modulation. Journal of Alloys and Compounds, 2019, 770, 875-885.	5.5	7
1007	Al2O3 support triggering highly efficient photoreduction of CO2 with H2O on noble-metal-free CdS/Ni9S8/Al2O3. Applied Catalysis B: Environmental, 2019, 240, 174-181.	20.2	28
1008	Hollow Nanostructures for Photocatalysis: Advantages and Challenges. Advanced Materials, 2019, 31, e1801369.	21.0	506
1009	3D cubic mesoporous C3N4 with tunable pore diameters derived from KIT-6 and their application in base catalyzed Knoevenagel reaction. Catalysis Today, 2019, 324, 33-38.	4.4	39
1010	Enhancement of photocatalytic hydrogen evolution activity of porous oxygen doped g-C3N4 with nitrogen defects induced by changing electron transition. Applied Catalysis B: Environmental, 2019, 240, 30-38.	20.2	285
1011	Synthesis of graphitic carbon nitride with large specific surface area via copolymerizing with nucleobases for photocatalytic hydrogen generation. Applied Surface Science, 2019, 463, 1-8.	6.1	33
1012	Enhanced azo dye decolorization through charge transmission by σ-Sb3+-azo complexes on amorphous Sb2S3 under visible light irradiation. Applied Catalysis B: Environmental, 2019, 240, 132-140.	20.2	45
1013	Kohlenstoffnitridmaterialien für photochemische Zellen zur Wasserspaltung. Angewandte Chemie, 2019, 131, 6198-6211.	2.0	19
1014	Recent Progress in Twoâ€Đimensional Antimicrobial Nanomaterials. Chemistry - A European Journal, 2019, 25, 929-944.	3.3	59
1015	Carbon Nitride Materials for Water Splitting Photoelectrochemical Cells. Angewandte Chemie - International Edition, 2019, 58, 6138-6151.	13.8	205
1016	Monomer sequence design at two solvent interface enables the synthesis of highly photoactive carbon nitride. RSC Advances, 2019, 9, 26091-26096.	3.6	9

#	Article	IF	Citations
1017	Recent Development of Graphitic Carbon Nitride-Based Photocatalyst for Environmental Pollution Remediation. , 0, , .		4
1018	Confinement Catalysis with 2D Materials for Energy Conversion. Advanced Materials, 2019, 31, e1901996.	21.0	257
1019	Constructing 3D hierarchical Zn0.2Cd0.8S microspheres for the improved visible-light-driven photocatalytic performance. International Journal of Hydrogen Energy, 2019, 44, 23868-23879.	7.1	11
1020	Photocatalytic NOx abatement and self-cleaning performance of cementitious composites with g-C3N4 nanosheets under visible light. Construction and Building Materials, 2019, 225, 120-131.	7.2	22
1021	Polyaniline/oxidation etching graphitic carbon nitride composites for U(VI) removal from aqueous solutions. Journal of Radioanalytical and Nuclear Chemistry, 2019, 321, 1005-1017.	1.5	5
1022	Rational modulation of p-n homojunction in P-doped g-C3N4 decorated with Ti3C2 for photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2019, 259, 118077.	20.2	94
1023	Water oxidation by Ferritin: A semi-natural electrode. Scientific Reports, 2019, 9, 11499.	3.3	6
1024	A Novel Route to Manufacture 2D Layer MoS2 and g-C3N4 by Atmospheric Plasma with Enhanced Visible-Light-Driven Photocatalysis. Nanomaterials, 2019, 9, 1139.	4.1	19
1025	Revealing the pHâ€Dependent Photoluminescence Mechanism of Graphitic C ₃ N ₄ Quantum Dots. Advanced Theory and Simulations, 2019, 2, 1900074.	2.8	13
1026	g-C3N4/TiO2 hybrid film on the metal surface, a cheap and efficient sunlight active photoelectrochemical anticorrosion coating. Journal of Materials Science: Materials in Electronics, 2019, 30, 12710-12717.	2.2	18
1027	Photocatalytic coupled redox cycle for two organic transformations over Pd/carbon nitride composites. Catalysis Science and Technology, 2019, 9, 5077-5089.	4.1	26
1028	Cysteine-assisted photoelectrochemical immunoassay for the carcinoembryonic antigen by using an ITO electrode modified with C3N4-BiOCl semiconductor and CuO nanoparticles as antibody labels. Mikrochimica Acta, 2019, 186, 633.	5.0	15
1029	2D Metal–Organic Frameworks as Multifunctional Materials in Heterogeneous Catalysis and Electro/Photocatalysis. Advanced Materials, 2019, 31, e1900617.	21.0	309
1030	Heterogeneous structural defects to prompt charge shuttle in g-C3N4 plane for boosting visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2019, 259, 118094.	20.2	97
1031	Research advances towards large-scale solar hydrogen production from water. EnergyChem, 2019, 1, 100014.	19.1	130
1032	2D Crystal–Based Fibers: Status and Challenges. Small, 2019, 15, e1902691.	10.0	35
1033	Toward Efficient Preconcentrating Photocatalysis: 3D g-C ₃ N ₄ Monolith with Isotype Heterojunctions Assembled from Hybrid 1D and 2D Nanoblocks. ACS Applied Materials & Interfaces, 2019, 11, 31934-31942.	8.0	25
1034	Photocatalytic Selective Oxidation of Organic Compounds in Graphitic Carbon Nitride Systems: A Review. Theoretical and Experimental Chemistry, 2019, 55, 147-172.	0.8	20

#	Article	IF	CITATIONS
1035	Fabrication of nanostructured NiO/WO ₃ with graphitic carbon nitride for visible light driven photocatalytic hydroxylation of benzene and metronidazole degradation. New Journal of Chemistry, 2019, 43, 14616-14624.	2.8	31
1036	Fullâ€Color Chemically Modulated g ₃ N ₄ for Whiteâ€Lightâ€Emitting Device. Advanced Optical Materials, 2019, 7, 1900775.	7.3	33
1037	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. Angewandte Chemie - International Edition, 2019, 58, 14950-14954.	13.8	120
1038	Photosensitization of Bi2O2CO3 nanoplates with amorphous Bi2S3 to improve the visible photoreactivity towards NO oxidation. Applied Surface Science, 2019, 495, 143561.	6.1	46
1039	Boosting visible-light-driven hydrogen evolution of covalent organic frameworks through compositing with MoS ₂ : a promising candidate for noble-metal-free photocatalysts. Journal of Materials Chemistry A, 2019, 7, 20193-20200.	10.3	133
1040	Biofilm-Assisted Fabrication of Ag@SnO ₂ - <i>g</i> -C ₃ N ₄ Nanostructures for Visible Light-Induced Photocatalysis and Photoelectrochemical Performance. Journal of Physical Chemistry C, 2019, 123, 20936-20948.	3.1	60
1041	Constructing Schottky junction between 2D semiconductor and metallic nickel phosphide for highly efficient catalytic hydrogen evolution. Applied Surface Science, 2019, 495, 143528.	6.1	35
1042	g-C3N4/TiO2 composite catalysts for the photo-oxidation of toluene: Chemical and charge handling effects. Chemical Engineering Journal, 2019, 378, 122228.	12.7	46
1043	Core–shell g-C ₃ N ₄ /Pt/TiO ₂ nanowires for simultaneous photocatalytic H ₂ evolution and RhB degradation under visible light irradiation. Catalysis Science and Technology, 2019, 9, 4898-4908.	4.1	41
1044	Graphitic carbon nitride nanostructures: Catalysis. Applied Materials Today, 2019, 16, 388-424.	4.3	58
1045	<i>In situ</i> synthesis of Cu ₃ P/g-C ₃ N ₄ heterojunction with superior photocatalytic hydrogen evolution. Journal Physics D: Applied Physics, 2019, 52, 465106.	2.8	21
1046	Facile synthesis of oxygen doped mesoporous graphitic carbon nitride with high photocatalytic degradation efficiency under simulated solar irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123736.	4.7	23
1047	Constructing highly dispersed 0D Co3S4 quantum dots/2D g-C3N4 nanosheets nanocomposites for excellent photocatalytic performance. Science Bulletin, 2019, 64, 1510-1517.	9.0	58
1048	Two-dimensional graphitic carbon nitride based membranes for separation. Science Bulletin, 2019, 64, 1385-1387.	9.0	4
1049	Review on photocatalytic conversion of carbon dioxide to value-added compounds and renewable fuels by graphitic carbon nitride-based photocatalysts. Catalysis Reviews - Science and Engineering, 2019, 61, 595-628.	12.9	452
1050	Porous Carbon Networks Derived From Graphitic Carbon Nitride for Efficient Oxygen Reduction Reaction. Nanoscale Research Letters, 2019, 14, 249.	5.7	22
1051	Facile Bottom-up Preparation of WS2-Based Water-Soluble Quantum Dots as Luminescent Probes for Hydrogen Peroxide and Glucose. Nanoscale Research Letters, 2019, 14, 271.	5.7	28
1052	Photocatalytic and electrocatalytic approaches towards atmospheric nitrogen reduction to ammonia under ambient conditions. Nano Convergence, 2019, 6, 15.	12.1	62

#	ARTICLE	IF	CITATIONS
1053	Photocatalyst with a metal-free electron–hole pair double transfer mechanism for pharmaceutical and personal care product degradation. Environmental Science: Nano, 2019, 6, 3292-3306.	4.3	14
1054	Photoinduced Water–Heptazine Electron-Driven Proton Transfer: Perspective for Water Splitting with g-C ₃ N ₄ . Journal of Physical Chemistry Letters, 2019, 10, 4310-4316.	4.6	33
1055	Tunable Covalent Triazine-Based Frameworks (CTF-0) for Visible-Light-Driven Hydrogen and Oxygen Generation from Water Splitting. ACS Catalysis, 2019, 9, 7697-7707.	11.2	131
1056	Facile synthesis of g-C3N4(0.94)/CeO2(0.05)/Fe3O4(0.01) nanosheets for DFT supported visible photocatalysis of 2-Chlorophenol. Scientific Reports, 2019, 9, 10202.	3.3	29
1057	Photocatalytic conversion of lignocellulosic biomass to valuable products. Green Chemistry, 2019, 21, 4266-4289.	9.0	180
1058	In- situ solid-phase fabrication of Ag/AgX (X=Cl, Br, I)/g-C3N4 composites for enhanced visible-light hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 21397-21405.	7.1	29
1059	Enhancing the luminescent efficiency of Y3Al5O12:Ce3+ by coating graphitic carbon nitride: Toward white light-emitting diodes. Journal of Alloys and Compounds, 2019, 801, 10-18.	5.5	37
1060	Fluorescent Graphitic Carbon Nitride-Based Nanozymes with Peroxidase-Like Activities for Ratiometric Biosensing. Analytical Chemistry, 2019, 91, 10648-10656.	6.5	139
1061	Multi-layered porous hierarchical TiO2/g-C3N4 hybrid coating for enhanced visible light photocatalysis. Applied Surface Science, 2019, 495, 143435.	6.1	62
1062	In Situ Doping of Black Phosphorus by High-Pressure Synthesis. Inorganic Chemistry, 2019, 58, 10227-10238.	4.0	20
1063	Urea and Melamine Formaldehyde Resin-Derived Tubular g-C ₃ N ₄ with Highly Efficient Photocatalytic Performance. ACS Applied Materials & Interfaces, 2019, 11, 27934-27943.	8.0	54
1064	A multifunctional platform by controlling of carbon nitride in the core-shell structure: From design to construction, and catalysis applications. Applied Catalysis B: Environmental, 2019, 258, 117957.	20.2	126
1065	Immobilization of metal-organic molecular cage on g-C3N4 semiconductor for enhancement of photocatalytic H2 generation. Chinese Journal of Catalysis, 2019, 40, 1198-1204.	14.0	15
1066	sp ² /sp ³ Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. ACS Catalysis, 2019, 9, 7494-7519.	11.2	86
1067	A biomimetic nanofluidic diode based on surface-modified polymeric carbon nitride nanotubes. Beilstein Journal of Nanotechnology, 2019, 10, 1316-1323.	2.8	16
1068	Synthesis, Structure, and Magnetic Properties of Bâ€Đoped Fe 3 N@C Magnetic Nanomaterial as Catalyst for the Hydrogen Evolution Reaction. Physica Status Solidi (B): Basic Research, 2019, 256, 1900111.	1.5	5
1069	Asymmetric embedded benzene ring enhances charge transfer of carbon nitride for photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2019, 258, 117959.	20.2	69
1070	Solar-driven efficient degradation of emerging contaminants by g-C3N4-shielding polyester fiber/TiO2 composites. Applied Catalysis B: Environmental, 2019, 258, 117960.	20.2	68

#	Article	IF	Citations
1071	Fabrication of highly efficient heterostructured Ag-CeO2/g-C3N4 hybrid photocatalyst with enhanced visible-light photocatalytic activity. Journal of Rare Earths, 2019, 37, 1269-1278,	4.8	30
1072	Photoelectrochemical platform for glucose sensing based on g-C3N4/ZnIn2S4 composites coupled with bi-enzyme cascade catalytic in-situ precipitation. Sensors and Actuators B: Chemical, 2019, 297, 126818.	7.8	44
1073	Direct Z-Scheme 2D/2D Photocatalyst Based on Ultrathin g-C3N4 and WO3 Nanosheets for Efficient Visible-Light-Driven H2 Generation. ACS Applied Materials & Interfaces, 2019, 11, 27913-27923.	8.0	161
1074	One-step synthesis of few layers g-C3N4 with suitable band structure and enhanced photocatalytic activities. Chemical Physics Letters, 2019, 732, 136613.	2.6	6
1075	Formation of g ₃ N ₄ Nanotubes towards Superior Photocatalysis Performance. ChemCatChem, 2019, 11, 4558-4567.	3.7	86
1076	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. Applied Catalysis B: Environmental, 2019, 257, 117931.	20.2	170
1077	Enhanced photocatalytic disinfection of Escherichia coli K-12 by porous g-C3N4 nanosheets: Combined effect of photo-generated and intracellular ROSs. Chemosphere, 2019, 235, 1116-1124.	8.2	28
1078	Fabrication of AgBr/La2Ti2O7 hierarchical heterojunctions: Boosted interfacial charge transfer and high efficiency visible-light photocatalytic activity. Separation and Purification Technology, 2019, 229, 115798.	7.9	23
1079	Conjugated porous polymer based on BOPHY dyes as photocatalyst under visible light. Applied Catalysis B: Environmental, 2019, 258, 117933.	20.2	46
1080	Electrochemiluminescence for Characterizing the Polymerization Process during Graphitic Carbon Nitride Synthesis. ChemElectroChem, 2019, 6, 3742-3746.	3.4	10
1081	Polymeric carbon nitride hybridized by CuInS2 quantum dots for photocatalytic hydrogen evolution. Materials Letters, 2019, 254, 81-84.	2.6	21
1082	Nanocatalytic Medicine. Advanced Materials, 2019, 31, e1901778.	21.0	396
1083	Less is more: Enhancement of photocatalytic activity of g-C3N4 nanosheets by site-selective atomic layer deposition of TiO2. Applied Surface Science, 2019, 494, 508-518.	6.1	20
1084	Porous nanostructure and enhanced charge transfer in graphitic carbon nitride fabricated by polyoxometalate oxidation etching. Journal of Alloys and Compounds, 2019, 805, 654-662.	5.5	9
1085	Silver-melamine nanowire-assisted synthesis of net-like AgCl-Ag/g-C3N4 for highly efficient photocatalytic degradation ability. Journal of Alloys and Compounds, 2019, 806, 263-271.	5.5	28
1086	Nickel Ammine Complexâ€derived NiO Modified gâ€C 3 N 4 Composites with Enhanced Visibleâ€light Photocatalytic H 2 Evolution Performance. ChemistrySelect, 2019, 4, 8095-8103.	1.5	5
1087	Freestanding Hierarchical Carbon Nitride/Carbon-Paper Electrode as a Photoelectrocatalyst for Water Splitting and Dye Degradation. ACS Applied Materials & Interfaces, 2019, 11, 29139-29146.	8.0	24
1088	Protonation and microwave-assisted heating induced excitation of lone-pair electrons in graphitic carbon nitride for increased photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 20223-20228.	10.3	56

#	Article	IF	CITATIONS
1089	Significantly Enhanced Charge Separation in Rippled Monolayer Graphitic C 3 N 4. ChemCatChem, 2019, 11, 6252-6257.	3.7	9
1090	Graphitic Carbon Nitride Nanosheets Covalently Functionalized with Biocompatible Vitamin B ₁ : Synthesis, Characterization, and Its Superior Performance for Synthesis of Quinoxalines. ACS Omega, 2019, 4, 12544-12554.	3.5	33
1091	Photocatalytic reforming of biomass for hydrogen production over ZnS nanoparticles modified carbon nitride nanosheets. Journal of Colloid and Interface Science, 2019, 555, 22-30.	9.4	31
1092	Amino-functionalised conjugated porous polymers for improved photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 19087-19093.	10.3	41
1093	Synergistically effective and highly visible light responsive SnO2-g-C3N4 nanostructures for improved photocatalytic and photoelectrochemical performance. Applied Surface Science, 2019, 495, 143432.	6.1	77
1094	Algorithm screening to accelerate discovery of 2D metal-free electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 19290-19296.	10.3	48
1095	Alkali-metal-oxides coated ultrasmall Pt sub-nanoparticles loading on intercalated carbon nitride: Enhanced charge interlayer transportation and suppressed backwark reaction for overall water splitting. Journal of Catalysis, 2019, 377, 72-80.	6.2	30
1096	Interfacial coupling promoting hydrogen sulfide splitting on the staggered type II g-C3N4/r-TiO2 heterojunction. Journal of Catalysis, 2019, 377, 122-132.	6.2	42
1097	Boosting photocatalytic hydrogen evolution rate over carbon nitride through tuning its crystallinity and its nitrogen composition. Journal of Colloid and Interface Science, 2019, 555, 268-275.	9.4	12
1098	Micro-patterned TiO2 films for photocatalysis. Materials Letters, 2019, 254, 448-451.	2.6	11
1099	Persulfate enhanced visible light photocatalytic degradation of organic pollutants by construct magnetic hybrid heterostructure. Journal of Alloys and Compounds, 2019, 806, 1207-1219.	5.5	24
1100	Surface-Doped Graphitic Carbon Nitride Catalyzed Photooxidation of Olefins and Dienes: Chemical Evidence for Electron Transfer and Singlet Oxygen Mechanisms. Catalysts, 2019, 9, 639.	3.5	7
1101	A Hybrid Solar Absorber–Electrocatalytic Nâ€Đoped Carbon/Alloy/Semiconductor Electrode for Localized Photothermic Electrocatalysis. Advanced Materials, 2019, 31, e1903605.	21.0	43
1102	Fabrication of Amorphous BiOCl/TiO ₂ ₃ N ₄ Heterostructure for Efficient Water Oxidation. ChemistrySelect, 2019, 4, 8277-8282.	1.5	14
1103	Novel g-C3N4/g-C3N4 S-scheme isotype heterojunction for improved photocatalytic hydrogen generation. Applied Surface Science, 2019, 495, 143555.	6.1	166
1104	N-doped C dot/CoAl-layered double hydroxide/g-C3N4 hybrid composites for efficient and selective solar-driven conversion of CO2 into CH4. Composites Part B: Engineering, 2019, 176, 107212.	12.0	86
1105	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. ACS Nano, 2019, 13, 9811-9840.	14.6	331
1106	Direct double Z-scheme O-g-C3N4/Zn2SnO4N/ZnO ternary heterojunction photocatalyst with enhanced visible photocatalytic activity. Applied Surface Science, 2019, 492, 690-702.	6.1	70

#	Article	IF	CITATIONS
1107	Nanoscale lightning rod effect in 3D carbon nitride nanoneedle: Enhanced charge collection and separation for efficient photocatalysis. Journal of Catalysis, 2019, 375, 361-370.	6.2	55
1108	Visible-light-driven photocatalytic degradation of sulfamethazine by surface engineering of carbon nitride:Properties, degradation pathway and mechanisms. Journal of Hazardous Materials, 2019, 380, 120815.	12.4	131
1109	Resorcinol–formaldehyde resins as metal-free semiconductor photocatalysts for solar-to-hydrogen peroxide energy conversion. Nature Materials, 2019, 18, 985-993.	27.5	429
1110	Co2+ immobilized on highly ordered mesoporous graphitic carbon nitride (ompg-C3N4/Co2+) as an efficient and recyclable heterogeneous catalyst for one-pot tandem selective photo-oxidation/Knoevenagel condensation. Molecular Catalysis, 2019, 475, 110491.	2.0	14
1111	Visibleâ€Lightâ€Driven CO ₂ Reduction by Mesoporous Carbon Nitride Modified with Polymeric Cobalt Phthalocyanine. Angewandte Chemie - International Edition, 2019, 58, 12180-12184.	13.8	135
1112	Z-scheme MgFe2O4/Bi2MoO6 heterojunction photocatalyst with enhanced visible light photocatalytic activity for malachite green removal. Applied Surface Science, 2019, 492, 527-539.	6.1	75
1113	Fabrication of surface hydroxyl modified g-C ₃ N ₄ with enhanced photocatalytic oxidation activity. Catalysis Science and Technology, 2019, 9, 3979-3993.	4.1	51
1114	C ₃ N ₄ -digested 3D construction of hierarchical metallic phase MoS ₂ nanostructures. Journal of Materials Chemistry A, 2019, 7, 18388-18396.	10.3	26
1116	Visibleâ€Lightâ€Driven CO ₂ Reduction by Mesoporous Carbon Nitride Modified with Polymeric Cobalt Phthalocyanine. Angewandte Chemie, 2019, 131, 12308-12312.	2.0	48
1117	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. Journal Physics D: Applied Physics, 2019, 53, 015502.	2.8	28
1118	Nanotechnology for biological photovoltaics; industrial applications of nanomaterials. , 2019, , 65-89.		8
1119	A triptych photocatalyst based on the Co-Integration of Ag nanoparticles and carbo-benzene dye into a TiO2 thin film. International Journal of Hydrogen Energy, 2019, 44, 26347-26360.	7.1	9
1120	Surface decoration of microdisk-like g-C3N4/diatomite with Ag/AgCl nanoparticles for application in Cr(VI) reduction. Sustainable Materials and Technologies, 2019, 22, e00127.	3.3	20
1121	Ultrafine WC _{1–<i>x</i>} Nanocrystals: An Efficient Cocatalyst for the Significant Enhancement of Photocatalytic Hydrogen Evolution on g-C ₃ N ₄ . Journal of Physical Chemistry C, 2019, 123, 26136-26144.	3.1	33
1122	Photocatalytic Degradation of Pharmaceuticals Carbamazepine, Diclofenac, and Sulfamethoxazole by Semiconductor and Carbon Materials: A Review. Molecules, 2019, 24, 3702.	3.8	92
1123	Synergy of Dopants and Defects in Graphitic Carbon Nitride with Exceptionally Modulated Band Structures for Efficient Photocatalytic Oxygen Evolution. Advanced Materials, 2019, 31, e1903545.	21.0	604
1124	Spinelâ€Type Mixed Metal Sulfide NiCo ₂ S ₄ for Efficient Photocatalytic Reduction of CO ₂ with Visible Light. ChemCatChem, 2019, 11, 5513-5518.	3.7	24
1125	Review on Photogenerated Hole Modulation Strategies in Photoelectrocatalysis for Solar Fuel Production. ChemCatChem, 2019, 11, 5875-5884.	3.7	17

#	Article	IF	CITATIONS
1126	Fabrication of 2D/0D Heterojunction Based on the Dual Controls of Micro/Nanoâ€Morphology and Structure Towards Highâ€Efficiency Photocatalytic H ₂ Production. ChemCatChem, 2019, 11, 6263-6269.	3.7	14
1127	First Whole-Genome Sequence of a Highly Resistant Klebsiella pneumoniae Sequence Type 14 Strain Isolated from Sudan. Microbiology Resource Announcements, 2019, 8, .	0.6	3
1128	Host–Guest Recognition on 2D Graphitic Carbon Nitride for Nanosensing. Advanced Materials Interfaces, 2019, 6, 1901429.	3.7	30
1129	Dual-defect-modified graphitic carbon nitride with boosted photocatalytic activity under visible light. Scientific Reports, 2019, 9, 14873.	3.3	43
1130	Generic Derivation of Optimal Architecture for A Resilient Microgrid with Graph Theory. , 2019, , .		3
1131	Highly Selective CO2 Capture and Its Direct Photochemical Conversion on Ordered 2D/1D Heterojunctions. Joule, 2019, 3, 2792-2805.	24.0	189
1132	Single-source-precursor-assisted synthesis of porous WO3/g-C3N4 with enhanced photocatalytic property. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123857.	4.7	41
1133	Regulating Polymerization in Graphitic Carbon Nitride To Improve Photocatalytic Activity. Chemistry of Materials, 2019, 31, 9188-9199.	6.7	57
1134	Magnetic Fe3C@C nanoparticles as a novel cocatalyst for boosting visible-light-driven photocatalytic performance of g-C3N4. International Journal of Hydrogen Energy, 2019, 44, 26970-26981.	7.1	29
1135	In situ self-assembly synthesis of carbon self-doped graphite carbon nitride hexagonal tubes with enhanced photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 27354-27362.	7.1	25
1136	Green exfoliation of graphitic carbon nitride towards decolourization of Congo-Red under solar irradiation. Journal of Environmental Chemical Engineering, 2019, 7, 103456.	6.7	45
1137	Two-dimensional nanomaterials: fascinating materials in biomedical field. Science Bulletin, 2019, 64, 1707-1727.	9.0	171
1138	Synthesis and characterization of Z-scheme α-Fe2O3 NTs/ruptured tubular g-C3N4 for enhanced photoelectrochemical water oxidation. Solar Energy, 2019, 193, 403-412.	6.1	55
1139	A Scalable General Synthetic Approach toward Ultrathin Imine-Linked Two-Dimensional Covalent Organic Framework Nanosheets for Photocatalytic CO ₂ Reduction. Journal of the American Chemical Society, 2019, 141, 17431-17440.	13.7	418
1140	Periodic table of elements and nanotechnology. Mendeleev Communications, 2019, 29, 479-485.	1.6	15
1141	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. Angewandte Chemie, 2019, 131, 15092-15096.	2.0	19
1142	Ionic Carbon Nitrides in Solar Hydrogen Production and Organic Synthesis: Exciting Chemistry and Economic Advantages. ChemCatChem, 2019, 11, 6166-6176.	3.7	56
1143	Photocatalytic Hydrogen Production by Boron Modified TiO ₂ /Carbon Nitride Heterojunctions. ChemCatChem, 2019, 11, 6408-6416.	3.7	35

#	Article	IF	CITATIONS
1144	Ultrasmall Co@Co(OH) ₂ Nanoclusters Embedded in Nâ€Enriched Mesoporous Carbon Networks as Efficient Electrocatalysts for Water Oxidation. ChemSusChem, 2019, 12, 5117-5125.	6.8	26
1145	Interfacial synthesis of ultrathin two-dimensional 2PbCO ₃ ·Pb(OH) ₂ nanosheets with high enzyme mimic catalytic activity. Inorganic Chemistry Frontiers, 2019, 6, 498-503.	6.0	1
1146	Facile preparation of g-C3N4/Bi2WO6 hybrid photocatalyst with enhanced visible light photoreduction of Cr(VI). Journal of Nanoparticle Research, 2019, 21, 1.	1.9	9
1148	Excellent visible light photocatalytic efficiency of Na and S co-doped g-C3N4 nanotubes for H2 production and organic pollutant degradation. International Journal of Hydrogen Energy, 2019, 44, 31916-31929.	7.1	42
1149	The zeta potentials of g-C3N4 nanoparticles: Effect of electrolyte, ionic strength, pH, and humic acid. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	37
1150	Two-dimensional carbon nitride-based composites for photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 30935-30948.	7.1	25
1151	Substituent Regulation Improves Photocatalytic Hydrogen Evolution of Conjugated Polyelectrolytes. , 2019, 1, 620-627.		32
1152	TiO ₂ /Graphitic Carbon Nitride Nanosheets for the Photocatalytic Degradation of Rhodamine B under Simulated Sunlight. ACS Applied Nano Materials, 2019, 2, 7255-7265.	5.0	52
1154	Improving hole mobility with the heterojunction of graphitic carbon nitride and titanium dioxide via soft template process in photoelectrocatalytic water splitting. International Journal of Hydrogen Energy, 2019, 44, 30885-30898.	7.1	49
1155	Simultaneously efficient light absorption and charge transport of CdS/TiO2 nanotube array toward improved photoelectrochemical performance. International Journal of Hydrogen Energy, 2019, 44, 30899-30909.	7.1	30
1156	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. Chemical Reviews, 2019, 119, 11980-12031.	47.7	242
1157	Merging Singleâ€Atomâ€Dispersed Iron and Graphitic Carbon Nitride to a Joint Electronic System for Highâ€Efficiency Photocatalytic Hydrogen Evolution. Small, 2019, 15, e1905166.	10.0	80
1158	Superficial Hydroxyl and Amino Groups Synergistically Active Polymeric Carbon Nitride for CO ₂ Electroreduction. ACS Catalysis, 2019, 9, 10983-10989.	11.2	105
1159	From All-Triazine C ₃ N ₃ Framework to Nitrogen-Doped Carbon Nanotubes: Efficient and Durable Trifunctional Electrocatalysts. ACS Applied Nano Materials, 2019, 2, 7969-7977.	5.0	49
1160	A ratiometric electrochemiluminescent immunoassay for calcitonin by using N-(aminobutyl)-N-(ethylisoluminol) and graphite-like carbon nitride. Mikrochimica Acta, 2019, 186, 771.	5.0	8
1161	Synergetic photocatalytic ozonation using modified graphitic carbon nitride for treatment of emerging contaminants under UVC, UVA and visible irradiation. Chemical Engineering Science, 2019, 209, 115181.	3.8	26
1162	K and halogen binary-doped graphitic carbon nitride (g-C3N4) toward enhanced visible light hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 27704-27712.	7.1	44
1163	Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. Inorganic Chemistry, 2019, 58, 15880-15888.	4.0	19

#	Article	IF	CITATIONS
1164	Simultaneously enhancing interfacial adhesion and pervaporation separation performance of PDMS/ceramic composite membrane via a facile substrate surface grafting approach. AICHE Journal, 2019, 65, e16773.	3.6	21
1165	Impregnated copper ferrite on mesoporous graphitic carbon nitride: An efficient and reusable catalyst for promoting ligandâ€free click synthesis of diverse 1,2,3â€triazoles and tetrazoles. Applied Organometallic Chemistry, 2019, 33, e5219.	3.5	14
1166	Mechanism of Alkali Metal Compound-Promoted Growth of Monolayer MoS ₂ : Eutectic Intermediates. Chemistry of Materials, 2019, 31, 873-880.	6.7	59
1167	Thin NiFeCr-LDHs nanosheets promoted by g-C ₃ N ₄ : a highly active electrocatalyst for oxygen evolution reaction. Nanotechnology, 2019, 30, 494001.	2.6	12
1168	Graphitic carbon nitride based photoanodes prepared by spray coating method. International Journal of Hydrogen Energy, 2019, 44, 24430-24440.	7.1	22
1169	Recent Advances in Emerging 2D Materialâ€Based Gas Sensors: Potential in Disease Diagnosis. Advanced Materials Interfaces, 2019, 6, 1901329.	3.7	169
1170	Threeâ€Ðimensional Hierarchical Porous Carbon/Graphitic Carbon Nitride Composites for Efficient Photocatalytic Hydrogen Production. ChemCatChem, 2019, 11, 6364-6371.	3.7	22
1171	Triplet–Triplet Annihilation Upconversion for Photocatalytic Hydrogen Evolution. Chemistry - A European Journal, 2019, 25, 16270-16276.	3.3	36
1172	Improvement of hydrogen production under solar light using cobalt (II) phosphide hydroxide co-doped g-C3N4 photocatalyst. Rendiconti Lincei, 2019, 30, 699-706.	2.2	8
1173	Natural Variation and Domestication Selection of ZmPGP1 Affects Plant Architecture and Yield-Related Traits in Maize. Genes, 2019, 10, 664.	2.4	21
1174	A mini-review on the synthesis and structural modification of g-C ₃ N ₄ -based materials, and their applications in solar energy conversion and environmental remediation. Sustainable Energy and Fuels, 2019, 3, 2907-2925.	4.9	158
1175	Novel High Efficiency Layered Oxide Photocatalyst Li2SnO3 for Rhodamine B and Tetracycline Degradation. Catalysts, 2019, 9, 712.	3.5	11
1176	Synergy effects of Al2O3 promoter on a highly ordered mesoporous heterogeneous Rh-g-C3N4 for a liquid-phase carbonylation of methanol. Applied Catalysis A: General, 2019, 585, 117209.	4.3	10
1177	Photocatalytic Degradation of Selected Pharmaceuticals Using g-C3N4 and TiO2 Nanomaterials. Nanomaterials, 2019, 9, 1194.	4.1	39
1178	Singlet–Triplet Inversion in Heptazine and in Polymeric Carbon Nitrides. Journal of Physical Chemistry A, 2019, 123, 8099-8108.	2.5	87
1179	Enhanced Selective H ₂ S Oxidation Performance on Mo ₂ C-Modified g-C ₃ N ₄ . ACS Sustainable Chemistry and Engineering, 2019, 7, 16257-16263.	6.7	39
1180	Construction of CoP/B doped g-C3N4 nanodots/g-C3N4 nanosheets ternary catalysts for enhanced photocatalytic hydrogen production performance. Applied Surface Science, 2019, 496, 143738.	6.1	44
1181	Powerful combination of g-C3N4 and LDHs for enhanced photocatalytic performance: A review of strategy, synthesis, and applications. Advances in Colloid and Interface Science, 2019, 272, 101999.	14.7	127

#	Article	IF	CITATIONS
1182	Controlled synthesis of three dimensional mesoporous C3N4 with ordered porous structure for room temperature Suzuki coupling reaction. Molecular Catalysis, 2019, 477, 110548.	2.0	7
1183	Cobalt atoms dispersed on hierarchical carbon nitride support as the cathode electrocatalyst for high-performance lithium-polysulfide batteries. Science Bulletin, 2019, 64, 1875-1880.	9.0	54
1184	Boosting Photocatalytic Hydrogen Production by Modulating Recombination Modes and Proton Adsorption Energy. Journal of Physical Chemistry Letters, 2019, 10, 5381-5386.	4.6	15
1185	Nanostructured g-C ₃ N ₄ /Agl composites assembled by Agl nanoparticles-decorated g-C ₃ N ₄ nanosheets for effective and mild photooxidation reaction. New Journal of Chemistry, 2019, 43, 14841-14852.	2.8	40
1186	Development of a High-Performance Axial Flux PM Machine With SMC Cores for Electric Vehicle Application. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	33
1187	Synthesis of ultrathin g-C3N4/graphene nanocomposites with excellent visible-light photocatalytic performances. Functional Materials Letters, 2019, 12, 1950025.	1.2	3
1188	Updating a search strategy to track emerging nanotechnologies. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	23
1189	Suppressed Carrier Recombination in Janus MoSSe Bilayer Stacks: A Time-Domain Ab Initio Study. Journal of Physical Chemistry Letters, 2019, 10, 5564-5570.	4.6	23
1190	2D/3D interface engineering: direct Z-scheme g-C3N4/YMnO3 heterojunction for reinforced visible-light photocatalytic oxidation. Journal of Materials Science: Materials in Electronics, 2019, 30, 17601-17611.	2.2	18
1191	Facile synthesis of C-doped hollow spherical g-C3N4 from supramolecular self-assembly for enhanced photoredox water splitting. International Journal of Hydrogen Energy, 2019, 44, 25671-25679.	7.1	66
1192	Stabilizing Ti3C2Tx-MXenes with TiOF2 nanospheres intercalation to improve hydrogen evolution reaction and humidity-sensing performance. Applied Surface Science, 2019, 496, 143729.	6.1	52
1193	Plasmonic Gold Nanoprism–Cobalt Molecular Complex Dyad Mimics Photosystem-II for Visible–NIR Illuminated Neutral Water Oxidation. ACS Energy Letters, 2019, 4, 2428-2435.	17.4	19
1194	C–H activation derived CPPs for photocatalytic hydrogen production excellently accelerated by a DMF cosolvent. Journal of Materials Chemistry A, 2019, 7, 24222-24230.	10.3	73
1195	Porous nanosheets of carbon-conjugated graphitic carbon nitride for the oxidation of H2S to elemental sulfur. Carbon, 2019, 155, 204-214.	10.3	51
1196	Tailoring of crystalline structure of carbon nitride for superior photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2019, 556, 324-334.	9.4	20
1197	Structure Tuning of Polymeric Carbon Nitride for Solar Energy Conversion: From Nano to Molecular Scale. CheM, 2019, 5, 2775-2813.	11.7	78
1198	Controllable fabrication of a red phosphorus modified g-C3N4 photocatalyst with strong interfacial binding for the efficient removal of organic pollutants. Journal of Alloys and Compounds, 2019, 810, 151885.	5.5	29
1199	Orthorhombic WP co-catalyst coupled with electron transfer bridge UiO-66 for efficient visible-light-driven H2 evolution. Journal of Colloid and Interface Science, 2019, 556, 689-703.	9.4	34

#	Article	IF	CITATIONS
1200	Influence of MoS2 on Activity and Stability of Carbon Nitride in Photocatalytic Hydrogen Production. Catalysts, 2019, 9, 695.	3.5	15
1201	Palygorskite/g-C3N4 conjunction for visible-light-driven degradation of tetracycline hydrochloride. Journal of Materials Science: Materials in Electronics, 2019, 30, 18159-18167.	2.2	5
1202	Enhanced charge separation and interfacial charge transfer of InGaN nanorods/C3N4 heterojunction photoanode. Electrochimica Acta, 2019, 324, 134844.	5.2	17
1203	Carbon nitride and titania nanoparticles prepared using porous silica templates and photocatalytic activity. Materials Letters, 2019, 256, 126600.	2.6	3
1204	Two-Dimensional COF with Rather Low Exciton Binding Energies Comparable to 3D Inorganic Semiconductors in the Visible Range for Water Splitting. Journal of Physical Chemistry C, 2019, 123, 24626-24633.	3.1	11
1205	First-principles investigations of the stability and electronic properties of fluorinated Janus MoSSe monolayer. Journal of Theoretical and Computational Chemistry, 2019, 18, 1950024.	1.8	7
1206	Visible-light induced emulsion photopolymerization with carbon nitride as a stabilizer and photoinitiator. Polymer Chemistry, 2019, 10, 5315-5323.	3.9	44
1207	Nickel formate induced high-level <i>in situ</i> Ni-doping of g-C ₃ N ₄ for a tunable band structure and enhanced photocatalytic performance. Journal of Materials Chemistry A, 2019, 7, 22385-22397.	10.3	101
1208	Hydrogen peroxide-assisted synthesis of oxygen-doped carbon nitride nanorods for enhanced photocatalytic hydrogen evolution. RSC Advances, 2019, 9, 28421-28431.	3.6	6
1209	Affinity-Based Detection of Biomolecules Using Photo-Electrochemical Readout. Frontiers in Chemistry, 2019, 7, 617.	3.6	39
1210	Synergistic Effect of Hydrochloric Acid and Phytic Acid Doping on Polyaniline-Coupled g-C ₃ N ₄ Nanosheets for Photocatalytic Cr(VI) Reduction and Dye Degradation. ACS Applied Materials & Interfaces, 2019, 11, 35702-35712.	8.0	89
1211	Structural Engineering of Graphitic Carbon Nitrides for Enhanced Metal-Free PET-RAFT Polymerizations in Heterogeneous and Homogeneous Systems. ACS Omega, 2019, 4, 16247-16255.	3.5	36
1212	Time resolved fluorescence properties of thermally stable graphitic carbon nitride. Ceramics International, 2019, 45, 21034-21037.	4.8	4
1213	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. Topics in Current Chemistry, 2019, 377, 27.	5.8	17
1214	Modulation in the Band Dispersion of Bi ₂ WO ₆ Nanocrsytals Using the Electronegativity of Transition Elements for Enhanced Visible Light Photocatalysis. Crystal Growth and Design, 2019, 19, 6224-6238.	3.0	35
1215	Metal-Oxide-Mediated Subtractive Manufacturing of Two-Dimensional Carbon Nitride for High-Efficiency and High-Yield Photocatalytic H ₂ Evolution. ACS Nano, 2019, 13, 11294-11302.	14.6	109
1216	Highly dispersed Pd nanoparticles hybridizing with 3D hollow-sphere g-C3N4 to construct 0D/3D composites for efficient photocatalytic hydrogen evolution. Journal of Catalysis, 2019, 378, 331-340.	6.2	55
1217	Efficient Photoelectrocatalytic Water Oxidation by Palladium Doped g-C ₃ N ₄ Electrodeposited Thin Film. Journal of Physical Chemistry C, 2019, 123, 26106-26115.	3.1	39

#	Article	IF	CITATIONS
1218	Recent Developments in Polymeric Carbon Nitride-Derived Photocatalysts and Electrocatalysts for Nitrogen Fixation. ACS Catalysis, 2019, 9, 10260-10278.	11.2	116
1219	Solar-driven conversion of arylboronic acids to phenols using metal-free heterogeneous photocatalysts. Journal of Catalysis, 2019, 378, 63-67.	6.2	15
1220	Polymeric structure optimization of g-C3N4 by using confined argon-assisted highly-ionized ammonia plasma for improved photocatalytic activity. Journal of Colloid and Interface Science, 2019, 556, 214-223.	9.4	20
1221	Surface-oxygen vacancy defect-promoted electron-hole separation of defective tungsten trioxide ultrathin nanosheets and their enhanced solar-driven photocatalytic performance. Journal of Colloid and Interface Science, 2019, 557, 18-27.	9.4	14
1222	Ag-doped graphitic carbon nitride photocatalyst with remarkably enhanced photocatalytic activity towards antibiotic in hospital wastewater under solar light. Journal of Industrial and Engineering Chemistry, 2019, 80, 597-605.	5.8	46
1223	Porous organic polymer composites as surging catalysts for visible-light-driven chemical transformations and pollutant degradation. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 41, 100319.	11.6	32
1224	Hydrothermal pre-treatment induced cyanamide to prepare porous g-C3N4 with boosted photocatalytic performance. Diamond and Related Materials, 2019, 98, 107499.	3.9	28
1225	Improvement in visible light stimulated photocatalysis by the inducement of magnesium dopant inside graphitic carbon nitride frameworks. Journal of Environmental Chemical Engineering, 2019, 7, 103440.	6.7	13
1226	Novel in-situ radiation construction of thioglycollic acid capped CdS quantum dots functionalized g-C3N4 nanohybrids with superior photocatalytic activity under visible light. Radiation Physics and Chemistry, 2019, 165, 108449.	2.8	11
1227	Graphitic Carbon Nitride Materials for Photocatalytic Hydrogen Production via Water Splitting: A Short Review. Catalysts, 2019, 9, 805.	3.5	54
1228	Nanotechnology Facets of the Periodic Table of Elements. ACS Nano, 2019, 13, 10879-10886.	14.6	26
1229	Synthesis of Ag@rGO/g-C3N4 Layered Structures and Their Application to Toxic Gas Sensors: Effect of Ag Nanoparticles. Electronic Materials Letters, 2019, 15, 750-759.	2.2	30
1230	Combining iodic acid and nitric acid to fabricate carbon nitride tubes for enhanced hydrogen evolution under visible light. Catalysis Science and Technology, 2019, 9, 266-270.	4.1	19
1231	Nanopore enriched hollow carbon nitride nanospheres with extremely high visible-light photocatalytic activity in the degradation of aqueous contaminants of emerging concern. Catalysis Science and Technology, 2019, 9, 355-365.	4.1	20
1232	In situ growth of triazine–heptazine based carbon nitride film for efficient (photo)electrochemical performance. Catalysis Science and Technology, 2019, 9, 425-435.	4.1	23
1233	Recent progress in visible light photocatalytic conversion of carbon dioxide. Journal of Materials Chemistry A, 2019, 7, 865-887.	10.3	193
1234	Ternary catalysts based on amino-functionalized carbon quantum dots, graphitic carbon nitride nanosheets and cobalt complex for efficient H2 evolution under visible light irradiation. Carbon, 2019, 145, 488-500.	10.3	51
1235	Electronic pump boosting photocatalytic hydrogen evolution over graphitic carbon nitride. Materials Today Chemistry, 2019, 11, 296-302.	3.5	12

#	Article	IF	CITATIONS
1236	Layer-by-layer assembly for photoelectrochemical nanoarchitectonics. Molecular Systems Design and Engineering, 2019, 4, 65-77.	3.4	25
1237	Facile preparation of graphitic-C ₃ N ₄ quantum dots for application in two-photon imaging. New Journal of Chemistry, 2019, 43, 3174-3179.	2.8	16
1238	Graphitic carbon nitride based materials for electrochemical energy storage. Journal of Materials Chemistry A, 2019, 7, 901-924.	10.3	178
1239	Trifunctional metal–organic platform for environmental remediation: structural features with peripheral hydroxyl groups facilitate adsorption, degradation and reduction processes. Dalton Transactions, 2019, 48, 915-927.	3.3	99
1240	Rapid disinfection of <i>E. coli</i> by a ternary BiVO ₄ /Ag/g-C ₃ N ₄ composite under visible light: photocatalytic mechanism and performance investigation in authentic sewage. Environmental Science: Nano, 2019, 6, 610-623.	4.3	59
1241	Unraveling the impact of the Pd nanoparticle@BiVO ₄ /S-CN heterostructure on the photo-physical & opto-electronic properties for enhanced catalytic activity in water splitting and one-pot three-step tandem reaction. Nanoscale Advances, 2019, 1, 1395-1412.	4.6	15
1242	Photo-mediated co-loading of highly dispersed MnO _x -Pt on g-C ₃ N ₄ boosts the ambient catalytic oxidation of formaldehyde. Nanoscale, 2019, 11, 8160-8169.	5.6	24
1243	Graphitic carbon nitride nanosheets coated with Ni2CoS4 nanoparticles as a high-rate electrode material for supercapacitor application. Ceramics International, 2019, 45, 8518-8524.	4.8	29
1244	Full color carbon dots through surface engineering for constructing white light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2212-2218.	5.5	69
1245	Crafting Musselâ€Inspired Metal Nanoparticleâ€Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. Advanced Materials, 2019, 31, e1806314.	21.0	239
1246	Carbonâ€Based Metalâ€Free Catalysts for Energy Storage and Environmental Remediation. Advanced Materials, 2019, 31, e1806128.	21.0	188
1247	The preparation of spherical mesoporous g-C3N4 with highly improved photocatalytic performance for H2 production and rhodamine B degradation. Materials Research Bulletin, 2019, 113, 115-121.	5.2	38
1248	Direct functionalization of methane into ethanol over copper modified polymeric carbon nitride via photocatalysis. Nature Communications, 2019, 10, 506.	12.8	190
1249	Mesoporous graphitic carbon nitride (g-C ₃ N ₄) nanosheets synthesized from carbonated beverage-reformed commercial melamine for enhanced photocatalytic hydrogen evolution. Materials Chemistry Frontiers, 2019, 3, 597-605.	5.9	44
1250	Dual Functional S-Doped g-C3N4 Pinhole Porous Nanosheets for Selective Fluorescence Sensing of Ag+ and Visible-Light Photocatalysis of Dyes. Molecules, 2019, 24, 450.	3.8	51
1251	Upgrading the photocatalytic achievement of g-C3N4 nanosheets along decoration with Ag@TiO2 nanospheres for the preparation of vitamin B3. Applied Nanoscience (Switzerland), 2019, 9, 1621-1636.	3.1	7
1252	Powerful combination of MOFs and C3N4 for enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2019, 247, 24-48.	20.2	309
1253	Engineering black phosphorus to porous g-C ₃ N ₄ -metal–organic framework membrane: a platform for highly boosting photocatalytic performance. Journal of Materials Chemistry A, 2019, 7, 4408-4414.	10.3	79

#	Article	IF	CITATIONS
1254	Improvement of photocatalytic activity of g-C3N4 by five-membered heterocyclic small molecule modifications: A theoretical prediction. Applied Surface Science, 2019, 478, 119-127.	6.1	14
1255	Montmorillonite-hybridized g-C3N4 composite modified by NiCoP cocatalyst for efficient visible-light-driven photocatalytic hydrogen evolution by dye-sensitization. International Journal of Hydrogen Energy, 2019, 44, 4114-4122.	7.1	48
1256	Combined theoretical and experimental characterizations of semiconductors for photoelectrocatalytic applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 40, 212-233.	11.6	29
1257	An innovative application of graphitic carbon nitride (g-C3N4) nano-sheets as silver ion carrier in a solid state potentiometric sensor. Materials Chemistry and Physics, 2019, 227, 176-183.	4.0	32
1258	Photocatalytically active ladder polymers. Faraday Discussions, 2019, 215, 84-97.	3.2	20
1259	Exfoliation of Graphitic Carbon Nitride for Enhanced Oxidative Desulfurization: A Facile and General Strategy. ACS Sustainable Chemistry and Engineering, 2019, 7, 4941-4950.	6.7	82
1260	Lateral heterojunctions within ultrathin FeS–FeSe ₂ nanosheet semiconductors for photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 3828-3841.	10.3	67
1261	Solid salt confinement effect: An effective strategy to fabricate high crystalline polymer carbon nitride for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 246, 349-355.	20.2	136
1262	Biomass Nanomicelles Assist Conjugated Polymers/Pt Cocatalysts To Achieve High Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 4128-4135.	6.7	38
1263	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. Sustainable Energy and Fuels, 2019, 3, 611-655.	4.9	47
1264	Surfaceâ€Groupâ€Oriented, Condensation Cyclizationâ€Driven, Nitrogenâ€Doping Strategy for the Preparation of a Nitrogenâ€Speciesâ€Tunable, Carbonâ€Materialâ€Supported Pd Catalyst. ChemistryOpen, 2019, 8, 87-96.	1.9	8
1265	Evaluation of self-cleaning and photocatalytic properties of modified g-C3N4 based PVDF membranes driven by visible light. Journal of Colloid and Interface Science, 2019, 541, 356-366.	9.4	93
1266	ZnTe/ZnSe heterostructures: In-situ synthesis, characterization and photocatalytic activity for Congo Red degradation. SN Applied Sciences, 2019, 1, 1.	2.9	13
1267	Facile synthesis of nitrogen-deficient mesoporous graphitic carbon nitride for highly efficient photocatalytic performance. Applied Surface Science, 2019, 478, 304-312.	6.1	68
1268	Tunability and Scalability of Single-Atom Catalysts Based on Carbon Nitride. ACS Sustainable Chemistry and Engineering, 2019, 7, 5223-5230.	6.7	31
1269	Metal-free g-C3N4 photocatalysis of organic micropollutants in urban wastewater under visible light. Applied Catalysis B: Environmental, 2019, 248, 184-192.	20.2	124
1270	Graphitic Carbon Nitride Nanosheets as Coâ€reactants for Tris(2,2′â€bipyridine)ruthenium(II) Electrochemiluminescence. ChemElectroChem, 2019, 6, 1673-1677.	3.4	8
1271	Novel CoAl-LDH/g-C3N4/RGO ternary heterojunction with notable 2D/2D/2D configuration for highly efficient visible-light-induced photocatalytic elimination of dye and antibiotic pollutants. Journal of Hazardous Materials, 2019, 368, 778-787.	12.4	149

#	Article	IF	CITATIONS
1272	Recent advances of nanocarbon-inorganic hybrids in photocatalysis. , 2019, , 521-588.		5
1273	One-pot, solid-state loading of Zn into g-C3N4 for increasing the population of photoexcited electrons and the rate of photocatalytic hydrogen evolution. Optik, 2019, 181, 1057-1065.	2.9	15
1274	A squaraine-linked metalloporphyrin two-dimensional polymer photocatalyst for hydrogen and oxygen evolution reactions. Chemical Communications, 2019, 55, 1627-1630.	4.1	22
1275	The functionality of surface hydroxyls on selective CH ₄ generation from photoreduction of CO ₂ over SiC nanosheets. Chemical Communications, 2019, 55, 1572-1575.	4.1	19
1276	Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. Chemical Society Reviews, 2019, 48, 637-682.	38.1	79
1277	Comparison of TiO2 and g-C3N4 2D/2D nanocomposites from three synthesis protocols for visible-light induced hydrogen evolution. Catalysis Science and Technology, 2019, 9, 75-85.	4.1	43
1278	Kinetics and mechanisms of catalytic water oxidation. Dalton Transactions, 2019, 48, 779-798.	3.3	42
1279	Two-dimensional materials in semiconductor photoelectrocatalytic systems for water splitting. Energy and Environmental Science, 2019, 12, 59-95.	30.8	373
1280	Are lanthanide-doped upconversion materials good candidates for photocatalysis?. Nanoscale Horizons, 2019, 4, 579-591.	8.0	73
1281	Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. Nanoscale, 2019, 11, 1475-1504.	5.6	134
1282	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. Chemical Science, 2019, 10, 2519-2528.	7.4	30
1283	Extending the π-electron conjugation in 2D planar graphitic carbon nitride: efficient charge separation for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 3757-3771.	10.3	128
1284	Ni-P cluster modified carbon nitride toward efficient photocatalytic hydrogen production. Chinese Journal of Catalysis, 2019, 40, 867-874.	14.0	73
1285	Electrocatalytic Performance of Titania Nanotube Arrays Coated with MoS ₂ by ALD toward the Hydrogen Evolution Reaction. ACS Omega, 2019, 4, 8816-8823.	3.5	16
1286	ZrO2/g-C3N4 Hybrid Nanocomposite: An Efficient and Eco-Friendly Recyclable Catalyst for the Trimethylsilyl Protection of Hydroxyl Groups and Synthesis of α-Aminophosphonates. Proceedings (mdpi), 2018, 9, .	0.2	0
1287	Hydrochromic full-color MXene quantum dots through hydrogen bonding toward ultrahigh-efficiency white light-emitting diodes. Applied Materials Today, 2019, 16, 90-101.	4.3	86
1288	Photocatalytic degradation of trihalomethanes and haloacetonitriles on graphitic carbon nitride under visible light irradiation. Science of the Total Environment, 2019, 682, 200-207.	8.0	20
1289	Rationally designed 2D/2D SiC/g-C ₃ N ₄ photocatalysts for hydrogen production. Catalysis Science and Technology, 2019, 9, 3896-3906.	4.1	35
#	Article	IF	CITATIONS
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1290	Carbon‧upportâ€Based Heterogeneous Nanocatalysts: Synthesis and Applications in Organic Reactions. Asian Journal of Organic Chemistry, 2019, 8, 1263-1305.	2.7	59
1291	Porous Graphitic Carbon Nitride Synthesized via Using Carbon Nanotube as a Novel Recyclable Hard Template for Efficient Visible Light Photocatalytic Organic Pollutant Degradation. ChemistrySelect, 2019, 4, 6123-6129.	1.5	15
1292	Urchin-like hierarchical CoZnAl-LDH/RGO/g-C3N4 hybrid as a Z-scheme photocatalyst for efficient and selective CO2 reduction. Applied Catalysis B: Environmental, 2019, 255, 117771.	20.2	212
1293	CO2 reduction by C3N4-TiO2 Nafion photocatalytic membrane reactor as a promising environmental pathway to solar fuels. Applied Catalysis B: Environmental, 2019, 255, 117779.	20.2	46
1294	The mixed marriage of copper and carbon ring-g-C3N4 nanosheet: A visible-light-driven heterogeneous Fenton-like catalyst. Applied Surface Science, 2019, 488, 728-738.	6.1	38
1295	An efficient metal-free phosphorus and oxygen co-doped g-C3N4 photocatalyst with enhanced visible light photocatalytic activity for the degradation of fluoroquinolone antibiotics. Chemical Engineering Journal, 2019, 374, 242-253.	12.7	222
1296	Flower-like g-C3N4 assembly from holy nanosheets with nitrogen vacancies for efficient NO abatement. Applied Surface Science, 2019, 492, 166-176.	6.1	59
1297	Recent advances in 3D g-C3N4 composite photocatalysts for photocatalytic water splitting, degradation of pollutants and CO2 reduction. Journal of Alloys and Compounds, 2019, 802, 196-209.	5.5	217
1298	Photosynthesis-Inspired Acceleration of Carrier Separation: Co–O–Ac and CH3COO– Ions Synergistically Enhanced Photocatalytic Hydrogen Evolution of Graphitic Carbon Nitride. ACS Sustainable Chemistry and Engineering, 2019, , .	6.7	0
1299	Cyano and potassium-rich g-C ₃ N ₄ hollow tubes for efficient visible-light-driven hydrogen evolution. Catalysis Science and Technology, 2019, 9, 3342-3346.	4.1	45
1300	Tris(2,2'â€bipyridyl)ruthenium(II)â€Nanomaterial Coâ€Reactant Electrochemiluminescence. ChemElectroChem, 2019, 6, 3878-3884.	3.4	20
1301	Photocatalytic H2 evolution and MB degradation over nickel-doped graphitic carbon nitride microwires under visible light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111931.	3.9	20
1302	Carbon nitride as a new way to facilitate the next generation of carbon-based supercapacitors. Sustainable Energy and Fuels, 2019, 3, 2176-2204.	4.9	64
1303	g-C ₃ N ₄ templated synthesis of the Fe ₃ C@NSC electrocatalyst enriched with Fe–N _x active sites for efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 16920-16936.	10.3	91
1304	Synthesis of Oxygen-Doped Graphitic Carbon Nitride from Thiourea. Technical Physics Letters, 2019, 45, 108-110.	0.7	16
1305	Ligand-free copper-catalyzed O-arylation of aryl halides using impregnated copper ferrite on mesoporous graphitic carbon nitride as a robust and magnetic heterogeneous catalyst. Microporous and Mesoporous Materials, 2019, 287, 254-263.	4.4	18
1306	Catalytic origin and universal descriptors of heteroatom-doped photocatalysts for solar fuel production. Nano Energy, 2019, 63, 103819.	16.0	25
1307	Ag decorated G 3 N 4 /black titanium oxides composite for the destruction of environmental pollutant under solar irradiation. Canadian Journal of Chemical Engineering, 2019, 97, 2632-2641.	1.7	4

#	Article	IF	CITATIONS
1308	Stretch/Compressâ€Modulated Spin Splitting in Oneâ€Dimensional Melem Chain with a Helical Structure. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900294.	2.4	0
1309	Encapsulated MWCNT@MOF-derived In2S3 tubular heterostructures for boosted visible-light-driven degradation of tetracycline. Applied Catalysis B: Environmental, 2019, 256, 117882.	20.2	92
1310	Biogenic Synthesis of Graphitic Carbon Nitride for Photocatalytic Degradation of Organic Dyes. ACS Omega, 2019, 4, 10263-10272.	3.5	22
1311	Cesium Salts as Mild Chemical Scissors To Trim Carbon Nitride for Photocatalytic H ₂ Evolution. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	2
1312	Template-free synthesis of oxygen-containing ultrathin porous carbon quantum dots/g-C ₃ N ₄ with superior photocatalytic activity for PPCPs remediation. Environmental Science: Nano, 2019, 6, 2565-2576.	4.3	55
1313	Highly Dispersed NiCo ₂ O ₄ Nanodots Decorated Three-Dimensional g-C ₃ N ₄ for Enhanced Photocatalytic H ₂ Generation. ACS Sustainable Chemistry and Engineering, 2019, 7, 12428-12438.	6.7	115
1314	Research progress of photocatalytic sterilization over semiconductors. RSC Advances, 2019, 9, 19278-19284.	3.6	65
1315	Controlled synthesis of g-C3N4@BiPO4 core–shell nanorods via low temperature reassembled strategy. Materials Today Advances, 2019, 1, 100006.	5.2	5
1316	Cobalt Oxide Supported on Phosphorus-Doped g-C ₃ N ₄ as an Efficient Electrocatalyst for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 4718-4729.	5.1	62
1317	Boosting the performance of visible lightâ€driven WO ₃ /g ₃ N ₄ anchored with BiVO ₄ nanoparticles for photocatalytic hydrogen evolution. International Journal of Energy Research, 2019, 43, 5747-5758.	4.5	76
1318	Ultrafast NaN3-deflagration induced nitrogen vacancy-enriched g-C3N4 for tailoring band structures and enhanced photocatalytic performance. Journal of Power Sources, 2019, 434, 226731.	7.8	32
1319	Promoting Pt catalysis for CO oxidation <i>via</i> the Mott–Schottky effect. Nanoscale, 2019, 11, 18568-18574.	5.6	13
1320	Recent development in graphitic carbon nitride based photocatalysis for hydrogen generation. Applied Catalysis B: Environmental, 2019, 257, 117855.	20.2	244
1321	A novel Bi12TiO20/g-C3N4 hybrid catalyst with a bionic granum configuration for enhanced photocatalytic degradation of organic pollutants. Journal of Hazardous Materials, 2019, 379, 120808.	12.4	36
1322	Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. Journal of the American Chemical Society, 2019, 141, 11219-11229.	13.7	177
1323	An on-demand solar hydrogen-evolution system for unassisted high-efficiency pure-water splitting. Journal of Materials Chemistry A, 2019, 7, 17315-17323.	10.3	17
1324	Hierarchical flower-like ZnIn ₂ S ₄ anchored with well-dispersed Ni ₁₂ P ₅ nanoparticles for high-quantum-yield photocatalytic H ₂ evolution under visible light. Catalysis Science and Technology, 2019, 9, 4010-4016.	4.1	46
1325	Recent advances on state-of-the-art copper (I/II) oxide as photoelectrode for solar green fuel generation: Challenges and mitigation strategies. Applied Catalysis A: General, 2019, 582, 117104.	4.3	19

#	ARTICLE Prenaring conner doned carbon nitride from melamine templated crystalline conner chloride for	IF	CITATIONS
1326	Fenton-like catalysis. Applied Catalysis B: Environmental, 2019, 256, 117830.	20.2	133
1327	Nanostructured materials for photocatalysis. Chemical Society Reviews, 2019, 48, 3868-3902.	38.1	744
1328	A bio-inspired strategy for enhanced hydrogen evolution: carbonate ions as hole vehicles to promote carrier separation. Nanoscale, 2019, 11, 11451-11456.	5.6	10
1329	Effect of mechanochemical preparation of 2D g-C3N4 on electronic properties and efficiency of photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 17922-17929.	7.1	12
1330	Se-modified polymeric carbon nitride nanosheets with improved photocatalytic activities. Journal of Catalysis, 2019, 375, 104-112.	6.2	44
1331	In situ photochemical fabrication of CdS/g-C3N4 nanocomposites with high performance for hydrogen evolution under visible light. Applied Catalysis B: Environmental, 2019, 256, 117848.	20.2	105
1332	Visible light active metal-free photocatalysis: N-doped graphene covalently grafted with g-C3N4 for highly robust degradation of methyl orange. Solid State Sciences, 2019, 94, 99-105.	3.2	22
1333	An Intrinsically Conductive Phosphorusâ€Đoped Perovskite Oxide as a New Cathode for Highâ€Performance Dye‣ensitized Solar Cells by Providing Internal Conducting Pathways. Solar Rrl, 2019, 3, 1900108.	5.8	18
1334	Synthesis of g-C3N4/NiO p–n heterojunction materials with ball-flower morphology and enhanced photocatalytic performance for the removal of tetracycline and Cr6+. Journal of Materials Science, 2019, 54, 11417-11434.	3.7	48
1335	Photocatalytic disinfection efficiency of 2D structure graphitic carbon nitride-based nanocomposites: a review. Journal of Materials Science, 2019, 54, 12206-12235.	3.7	91
1336	Role of oxygen, nitrogen and sulfur functionalities on the surface of nanoporous carbons in CO2 adsorption: A critical review. Microporous and Mesoporous Materials, 2019, 287, 29-55.	4.4	153
1337	In-situ Construction of Superhydrophilic g-C3N4 Film by Vapor-Assisted Confined Deposition for Photocatalysis. Frontiers in Materials, 2019, 6, .	2.4	17
1338	Hyperbranched Conjugated Polymer Dots: The Enhanced Photocatalytic Activity for Visible Light-Driven Hydrogen Production. Macromolecules, 2019, 52, 4376-4384.	4.8	47
1339	Metallic 1T-phase MoS ₂ quantum dots/g-C ₃ N ₄ heterojunctions for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 12266-12274.	5.6	76
1340	A Facile Synthesis of MoS2/g-C3N4 Composite as an Anode Material with Improved Lithium Storage Capacity. Materials, 2019, 12, 1730.	2.9	28
1341	Novel g-C3N4/BiOClxI1-x nanosheets with rich oxygen vacancies for enhanced photocatalytic degradation of organic contaminants under visible and simulated solar light. Applied Catalysis B: Environmental, 2019, 256, 117789.	20.2	103
1342	Photocarving nitrogen vacancies in a polymeric carbon nitride for metal-free oxygen synthesis. Applied Catalysis B: Environmental, 2019, 256, 117794.	20.2	80
1343	Element doping and semiconductor heterojunction forming enhance the photocatalytic performance of CdS/P–CN under visible light. Materials Chemistry and Physics, 2019, 233, 145-154.	4.0	13

#	Article	IF	CITATIONS
1344	Simultaneously Broadened Visible Light Absorption and Boosted Intersystem Crossing in Platinum-Doped Graphite Carbon Nitride for Enhanced Photosensitization. ACS Applied Materials & Interfaces, 2019, 11, 20770-20777.	8.0	44
1345	Introduction of in-plane ï€-conjugated heterojunction via rGO modulation: A promising approach to enhance photoexcited charge separation and transfer of g-C3N4. Applied Surface Science, 2019, 489, 658-667.	6.1	26
1346	Organic motif's functionalization via covalent linkage in carbon nitride: An exemplification in photocatalysis. Carbon, 2019, 152, 40-58.	10.3	54
1347	Multiple Doped Carbon Nitrides with Accelerated Interfacial Charge/Mass Transportation for Boosting Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 22255-22263.	8.0	42
1348	Impregnation of semiconductor CdS NPs in MOFs cavities via double solvent method for effective photocatalytic CO2 conversion. Journal of Catalysis, 2019, 375, 21-31.	6.2	47
1349	Carbon doped honeycomb-like graphitic carbon nitride for photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2019, 552, 728-734.	9.4	39
1350	Fabrication of protonated g-C ₃ N ₄ nanosheets as promising proton conductive materials. Chemical Communications, 2019, 55, 7414-7417.	4.1	18
1351	Tuning the visible-light photocatalytic degradation activity of thin nanosheets constructed porous g-C ₃ N ₄ microspheres by decorating ionic liquid modified carbon dots: roles of heterojunctions and surface charges. New Journal of Chemistry, 2019, 43, 10141-10150.	2.8	18
1352	Towards the prominent cocatalytic effect of ultra-small CoP particles anchored on g-C3N4 nanosheets for visible light driven photocatalytic H2 production. Applied Catalysis B: Environmental, 2019, 256, 117819.	20.2	112
1353	Superior visible light photocatalysis and low-operating temperature VOCs sensor using cubic Ag(0)-MoS2 loaded g-CN 3D porous hybrid. Applied Materials Today, 2019, 16, 193-203.	4.3	50
1354	Graphitic carbon nitride quantum dots and nitrogen-doped carbon quantum dots co-decorated with BiVO4 microspheres: A ternary heterostructure photocatalyst for water purification. Separation and Purification Technology, 2019, 226, 117-127.	7.9	155
1355	Carbon nitride as a ligand: edge-site coordination of ReCl(CO) ₃ -fragments to g-C ₃ N ₄ . Chemical Communications, 2019, 55, 7450-7453.	4.1	10
1356	Heterostructured Ag/gâ€C ₃ N ₄ /TiO ₂ with enhanced visible light photocatalytic performances. Journal of Chemical Technology and Biotechnology, 2019, 94, 3806-3814.	3.2	38
1357	Dual role of a g-C ₃ N ₄ /carbon intra-Schottky junction in charge carrier generation and separation for efficient solar H ₂ production. Catalysis Science and Technology, 2019, 9, 3493-3503.	4.1	31
1358	High yield synthesis of homogeneous boron doping C3N4 nanocrystals with enhanced photocatalytic property. Applied Surface Science, 2019, 489, 631-638.	6.1	30
1359	ZIFâ€67â€Derived 3D Hollow Mesoporous Crystalline Co ₃ O ₄ Wrapped by 2D gâ€C ₃ N ₄ Nanosheets for Photocatalytic Removal of Nitric Oxide. Small, 2019, 15, e1902291.	10.0	93
1360	Next-Generation Multifunctional Carbon–Metal Nanohybrids for Energy and Environmental Applications. Environmental Science & Technology, 2019, 53, 7265-7287.	10.0	109
1361	Porous N–C catalyst synthesized by pyrolyzing g-C3N4 embedded in carbon as highly efficient oxygen reduction electrocatalysts for primary Zn-air battery. Carbon, 2019, 150, 475-484.	10.3	59

#	Article	IF	CITATIONS
1362	Hydrothermal Synthesis of g ₃ N ₄ /NiFe ₂ O ₄ Nanocomposite and Its Enhanced Photocatalytic Activity. Applied Organometallic Chemistry, 2019, 33, e5002.	3.5	35
1363	High-efficiency visible light photocatalytic performances of the CdS(HS)/g-C3N4 composites: the role of intimate connection and hollow structure. Journal of Materials Science: Materials in Electronics, 2019, 30, 10867-10878.	2.2	4
1364	Localized π-conjugated structure and EPR investigation of g-C3N4 photocatalyst. Applied Surface Science, 2019, 487, 335-342.	6.1	119
1365	Preparation effects on the morphology and photocatalytic properties of carbon nitride nanotubes. Results in Physics, 2019, 13, 102254.	4.1	3
1366	Enhanced photoexcited carrier separation in CdS–SnS ₂ heteronanostructures: a new 1D–0D visible-light photocatalytic system for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 13614-13628.	10.3	102
1367	Iceâ€Assisted Synthesis of Black Phosphorus Nanosheets as a Metalâ€Free Photocatalyst: 2D/2D Heterostructure for Broadband H ₂ Evolution. Advanced Functional Materials, 2019, 29, 1902486.	14.9	116
1368	In situ synthesis of g-C3N4/TiO2 with {001} and {101} facets coexposed for water remediation. Applied Surface Science, 2019, 487, 322-334.	6.1	27
1369	Extended π-conjugative n-p type homostructural graphitic carbon nitride for photodegradation and charge-storage applications. Scientific Reports, 2019, 9, 7186.	3.3	47
1370	CdS-modified one-dimensional g-C3N4 porous nanotubes for efficient visible-light photocatalytic conversion. Chinese Journal of Catalysis, 2019, 40, 959-968.	14.0	70
1371	Three-dimensional network structure assembled by g-C3N4 nanorods for improving visible-light photocatalytic performance. Applied Catalysis B: Environmental, 2019, 255, 117761.	20.2	164
1372	Review on heterophase/homophase junctions for efficient photocatalysis: The case of phase transition construction. Chinese Journal of Catalysis, 2019, 40, 796-818.	14.0	96
1373	Unraveling template-free fabrication of carbon nitride nanorods codoped with Pt and Pd for efficient electrochemical and photoelectrochemical carbon monoxide oxidation at room temperature. Nanoscale, 2019, 11, 11755-11764.	5.6	62
1374	Ultrafine MnO particles embedded in three-dimensional porous g-C3N4/C spheres synthesized through aerosol-pyrolysis route for high energy-density lithium-ion batteries. Ionics, 2019, 25, 4727-4737.	2.4	4
1375	Microscopic Revelation of Charge-Trapping Sites in Polymeric Carbon Nitrides for Enhanced Photocatalytic Activity by Correlating with Chemical and Electronic Structures. ACS Applied Materials & Interfaces, 2019, 11, 19087-19095.	8.0	22
1376	Silver Doped Graphitic Carbon Nitride for the Enhanced Photocatalytic Activity Towards Organic Dyes. Journal of Nanoscience and Nanotechnology, 2019, 19, 5241-5248.	0.9	55
1377	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. Advanced Functional Materials, 2019, 29, 1901024.	14.9	44
1378	G-C3N4 Nanosheets Coupled with TiO2 Nanosheets as 2D/2D Heterojunction Photocatalysts Toward High Photocatalytic Activity for Hydrogen Production. Catalysis Letters, 2019, 149, 2930-2939.	2.6	21
1379	Evaluation of self-cleaning performance of the modified g-C3N4 and GO based PVDF membrane toward oil-in-water separation under visible-light. Chemosphere, 2019, 230, 40-50.	8.2	107

#	Article	IF	CITATIONS
1380	Green synthesis of ultrathin edge-activated foam-like carbon nitride nanosheets for enhanced photocatalytic performance under visible light irradiation. Sustainable Energy and Fuels, 2019, 3, 1764-1775.	4.9	18
1381	Fabrication of wide visible-light response porous graphitic carbon nitride with excellent visible light photocatalytic performance. Materials Research Express, 2019, 6, 086207.	1.6	4
1382	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. Composites Part B: Engineering, 2019, 172, 704-723.	12.0	61
1383	Influence of Ca-doped NaNbO3 and its heterojunction with g-C3N4 on the photoredox performance. Solar Energy, 2019, 185, 469-479.	6.1	44
1384	g-C3N4/Ni Nanocomposite: An Efficient and Eco-Friendly Recyclable Catalyst for the Synthesis of Quinoxalines. Proceedings (mdpi), 2019, 9, .	0.2	6
1385	Facile synthesis of CNS/TNS sensitized with Cu biphenylamine frameworks for remarkable photocatalytic activity for organic pollutants degradation and bacterial inactivation. Solar Energy, 2019, 186, 204-214.	6.1	18
1386	Construction of α-Fe2O3/CeO2 decorated g-C3N4 nanosheets for magnetically separable efficient photocatalytic performance under visible light exposure and bacterial disinfection. Applied Surface Science, 2019, 488, 763-777.	6.1	83
1387	Photocatalytic and photo-fenton activity of iron oxide-doped carbon nitride in 3D printed and LED driven photon concentrator. Journal of Hazardous Materials, 2019, 376, 178-187.	12.4	43
1388	Highly efficient visible-light-driven photocatalytic activity of g-C3N4@Ag/AgVO3 composites for dye degradation and bacterial inactivation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 380, 111866.	3.9	36
1389	Simultaneous formation of mesopores and homojunctions in graphite carbon nitride with enhanced optical absorption, charge separation and photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 253, 359-368.	20.2	70
1390	Synthesis of MoS ₂ /CdS Heterostructures on Carbonâ€Fiber Cloth as Filterâ€Membraneâ€Shaped Photocatalyst for Purifying the Flowing Wastewater under Visibleâ€Light Illumination. ChemCatChem, 2019, 11, 2855-2863.	3.7	49
1391	Enhancement of photoelectric conversion efficiency with sulfur-doped g-C3N4/TiO2 nanoparticles composites in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2019, 30, 9861-9871.	2.2	5
1392	Controllable local electronic migration induced charge separation and red-shift emission in carbon nitride for enhanced photocatalysis and potential phototherapy. Chemical Communications, 2019, 55, 6002-6005.e-II communications mile: http://www.w3.org/1998/Math/MathML" display="inline"	4.1	15
1393	overflow="scroil"> <mmi:msub><mmi:mrow><mmi:mi>Bi</mmi:mi>VO</mmi:mrow>VOUOUOVOvoVOUOVOUOUO<td>nn>43.8</td><td>11:mn>23</td></mmi:msub>	nn>43.8	11:mn>23
1394	Z-scheme design of Ag@g-C3N4/ZnS photoanode device for efficient solar water oxidation: An organic-inorganic electronic interface. International Journal of Hydrogen Energy, 2019, 44, 13085-13097.	7.1	40
1395	Fe, Ru, and Os‒embedded graphitic carbon nitride as a promising candidate for NO gas sensor: A first-principles investigation. Materials Chemistry and Physics, 2019, 231, 264-271.	4.0	24
1396	Functionalized conjugated polymer with plasmonic Au nanoalloy for photocatalytic hydrogen generation under visible-NIR. International Journal of Hydrogen Energy, 2019, 44, 13262-13272.	7.1	24
1397	Fabrication of ordered polydopamine-coated carbon nanotube arrays and their electrocatalytic activities towards synergistically enhanced oxidation of ascorbate-monosaccharides and reduction of oxygen Electrochimica Acta 2019 312 272-281	5.2	6

#	Article	IF	CITATIONS
1398	Synthesis of nano-g-carbon nitride for photodegradation of organic waste. AIP Conference Proceedings, 2019, , .	0.4	0
1399	Influence of the gas atmosphere during the synthesis of g-C ₃ N ₄ for enhanced photocatalytic H ₂ production from water on Au/g-C ₃ N ₄ composites. Journal of Materials Chemistry A, 2019, 7, 14849-14863.	10.3	81
1400	Semiâ€heterogene duale Nickelâ€∤Photokatalyse mit Kohlenstoffnitriden: Veresterung von Carbonsären mit Arylhalogeniden. Angewandte Chemie, 2019, 131, 9676-9681.	2.0	20
1401	Semiâ€heterogeneous Dual Nickel/Photocatalysis using Carbon Nitrides: Esterification of Carboxylic Acids with Aryl Halides. Angewandte Chemie - International Edition, 2019, 58, 9575-9580.	13.8	108
1402	Effective steering of charge flow through synergistic inducing oxygen vacancy defects and p-n heterojunctions in 2D/2D surface-engineered Bi2WO6/BiOI cascade: Towards superior photocatalytic CO2 reduction activity. Chemical Engineering Journal, 2019, 372, 1183-1193.	12.7	210
1403	Enhancing Visibleâ€Light Hydrogen Evolution Performance of Crystalline Carbon Nitride by Defect Engineering. ChemSusChem, 2019, 12, 3257-3262.	6.8	101
1404	Insights into photocatalytic CO2 reduction on C3N4: Strategy of simultaneous B, K co-doping and enhancement by N vacancies. Applied Catalysis B: Environmental, 2019, 254, 270-282.	20.2	178
1405	Facile one-step synthesis of pellet-press-assisted saddle-curl-edge-like g-C3N4 nanosheets for improved visible-light photocatalytic activity. Ceramics International, 2019, 45, 15178-15187.	4.8	26
1406	Facile Synthesis of Ag/ZnO Hollow Microspheres with Enhanced Photocatalytic Performance under Simulated Sunlight Irradiation. Nano, 2019, 14, 1950036.	1.0	4
1407	Recent progress of tungsten- and molybdenum-based semiconductor materials for solar-hydrogen production. Tungsten, 2019, 1, 19-45.	4.8	27
1408	Study on the effect of Co doping concentration on optical properties of g-C3N4. Chemical Physics Letters, 2019, 728, 70-73.	2.6	64
1409	Amphiphilic two-dimensional graphitic carbon nitride nanosheets for visible-light-driven phase-boundary photocatalysis. Journal of Materials Chemistry A, 2019, 7, 13071-13079.	10.3	114
1410	Stepping towards Solar Water Splitting: Recent Progress in Bismuth Vanadate Photoanodes. ChemElectroChem, 2019, 6, 3227-3243.	3.4	42
1411	Graphitic carbon nitride (g–C3N4)–based metal-free photocatalysts for water splitting: A review. Carbon, 2019, 149, 693-721.	10.3	618
1412	Enhanced visible-light-driven photocatalytic disinfection using AgBr-modified g-C3N4 composite and its mechanism. Colloids and Surfaces B: Biointerfaces, 2019, 179, 170-179.	5.0	33
1413	Porphyrinâ€containing Polyimide with Enhanced Light Absorption and Photocatalysis Activity. Chemistry - an Asian Journal, 2019, 14, 2138-2148.	3.3	23
1414	Enhancement of visible-light-driven photocatalytic activity of carbon plane/g-C3N4/TiO2 nanocomposite by improving heterojunction contact. Chemical Engineering Journal, 2019, 371, 706-718.	12.7	100
1415	Dual-Functionalized Mixed Keggin- and Lindqvist-Type Cu ₂₄ -Based POM@MOF for Visible-Light-Driven H ₂ and O ₂ Evolution. Inorganic Chemistry, 2019, 58, 7229-7235.	4.0	98

#	Article	IF	CITATIONS
1416	Three-Dimensional Branched Crystal Carbon Nitride with Enhanced Intrinsic Peroxidase-Like Activity: A Hypersensitive Platform for Colorimetric Detection. ACS Applied Materials & Interfaces, 2019, 11, 17467-17474.	8.0	29
1417	Semiconductor polymeric graphitic carbon nitride photocatalysts: the "holy grail―for the photocatalytic hydrogen evolution reaction under visible light. Energy and Environmental Science, 2019, 12, 2080-2147.	30.8	803
1418	Advanced carbon nanomaterials for electrochemiluminescent biosensor applications. Current Opinion in Electrochemistry, 2019, 16, 66-74.	4.8	75
1419	Facile Synthesis of Ternary g-C3N4@BiOCl/Bi12O17Cl2 Composites With Excellent Visible Light Photocatalytic Activity for NO Removal. Frontiers in Chemistry, 2019, 7, 231.	3.6	13
1420	Efficient visible-light photocatalytic degradation of imidacloprid and acetamiprid using a modified carbon nitride/tungstophosphoric acid composite induced by a nucleophilic addition reaction. Applied Surface Science, 2019, 485, 423-431.	6.1	24
1421	Aminoboronic acid-functionalized graphitic carbon nitride quantum dots for the photoluminescence multi-chemical sensing probe. Dyes and Pigments, 2019, 168, 180-188.	3.7	33
1422	Enhancement of visible light photocatalytic hydrogen evolution by bio-mimetic C-doped graphitic carbon nitride. International Journal of Hydrogen Energy, 2019, 44, 13098-13105.	7.1	48
1423	Preparation of Li-doped graphitic carbon nitride with enhanced visible-light photoactivity. Materials Letters, 2019, 250, 9-11.	2.6	19
1424	Few layer g-C3N4 decorated flower-like ZnO for visible light photocatalytic reduction of Cr(VI). Journal of Materials Science: Materials in Electronics, 2019, 30, 8577-8584.	2.2	8
1425	Metal-free carbon nitride photocatalysis with in situ hydrogen peroxide generation for the degradation of aromatic compounds. Applied Catalysis B: Environmental, 2019, 252, 128-137.	20.2	85
1426	Enhanced gas-phase photocatalytic removal of aromatics over direct Z-scheme-dictated H3PW12O40/g-C3N4 film-coated optical fibers. Applied Catalysis B: Environmental, 2019, 251, 168-180.	20.2	71
1427	An NH ₂ -MIL-125 (Ti)/Pt/g-C ₃ N ₄ catalyst promoting visible-light photocatalytic H ₂ production. Sustainable Energy and Fuels, 2019, 3, 1233-1238.	4.9	27
1428	0D CoP cocatalyst/ 2D g ₃ N ₄ nanosheets: An efficient photocatalyst for promoting photocatalytic hydrogen evolution. Journal of the American Ceramic Society, 2019, 102, 5484-5493.	3.8	51
1429	Nanophotocatalysis and Environmental Applications. Environmental Chemistry for A Sustainable World, 2019, , .	0.5	7
1430	Optimized band gap and fast interlayer charge transfer in two-dimensional perovskite oxynitride Ba2NbO3N and Sr2NbO3/Ba2NbO3N bonded heterostructure visible-light photocatalysts for overall water splitting. Journal of Colloid and Interface Science, 2019, 546, 20-31.	9.4	26
1431	Direct Conversion of Acetylene and 1,2-Dichloroethane to Vinyl Chloride Monomer over a Supported Carbon Nitride Catalyst: Tunable Activity Controlled by the Synthesis Temperature. Industrial & Engineering Chemistry Research, 2019, 58, 5404-5413.	3.7	4
1432	Effect of Different Functional Groups on Photocatalytic Hydrogen Evolution in Covalentâ€Organic Frameworks. ChemCatChem, 2019, 11, 2313-2319.	3.7	145
1433	Synthesis of g-C ₃ N ₄ Nanosheet/TiO ₂ Heterojunctions Inspired by Bioadhesion and Biomineralization Mechanism. Industrial & Engineering Chemistry Research, 2019, 58, 5516-5525.	3.7	35

#	Article	IF	CITATIONS
1434	Hierarchical N/P-Co-Doped Porous Carbon as Host Materials for High-Performance Lithium Sulfur Battery. Journal of the Electrochemical Society, 2019, 166, A880-A885.	2.9	14
1435	Highly Efficient and Non-Precious Metal for the Li-SOCl ₂ Battery Using Nitrogen Doped Carbon Supported Cu Nanoparticles. Journal of the Electrochemical Society, 2019, 166, A641-A648.	2.9	7
1436	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. Journal of the American Chemical Society, 2019, 141, 4505-4509.	13.7	285
1437	Interfacial engineering of graphitic carbon nitride (g-C3N4)-based metal sulfide heterojunction photocatalysts for energy conversion: A review. Chinese Journal of Catalysis, 2019, 40, 289-319.	14.0	413
1438	Catalytic hydrogenation of p-nitrophenol using a metal-free catalyst of porous crimped graphitic carbon nitride. Applied Surface Science, 2019, 480, 888-895.	6.1	41
1439	Efficient Photoelectrochemical Performance of γ Irradiated g-C ₃ N ₄ and Its g-C ₃ N ₄ @BiVO ₄ Heterojunction for Solar Water Splitting. Journal of Physical Chemistry C, 2019, 123, 9013-9026.	3.1	93
1440	Supramolecular precursor strategy for the synthesis of holey graphitic carbon nitride nanotubes with enhanced photocatalytic hydrogen evolution performance. Nano Research, 2019, 12, 2385-2389.	10.4	192
1441	Effective hydrogenation of g-C3N4 for enhanced photocatalytic performance revealed by molecular structure dynamics. Applied Catalysis B: Environmental, 2019, 250, 63-70.	20.2	47
1442	Hydrogen storage on graphitic carbon nitride and its palladium nanocomposites: A multiscale computational approach. International Journal of Hydrogen Energy, 2019, 44, 8325-8340.	7.1	32
1443	Conjugated Polymers with Oligoethylene Glycol Side Chains for Improved Photocatalytic Hydrogen Evolution. IScience, 2019, 13, 33-42.	4.1	105
1444	Phosphorus-doped g-C3N4 integrated photocatalytic membrane reactor for wastewater treatment. Journal of Membrane Science, 2019, 580, 1-11.	8.2	99
1445	Three-dimensional porous g-C3N4 for highly efficient photocatalytic overall water splitting. Nano Energy, 2019, 59, 644-650.	16.0	553
1447	Formation of N-heterocyclic carbon quantum dots and their energy- and electron-transfer properties in photocatalysis. Materials Research Express, 2019, 6, 065023.	1.6	3
1448	Facile Construction of Defectâ€rich Rhenium Disulfide/Graphite Carbon Nitride Heterojunction via Electrostatic Assembly for Fast Charge Separation and Photoactivity Enhancement. ChemCatChem, 2019, 11, 1633-1642.	3.7	23
1449	Engineering of reduced graphene oxide on nanosheet–g-C3N4/perylene imide heterojunction for enhanced photocatalytic redox performance. Applied Catalysis B: Environmental, 2019, 250, 42-51.	20.2	58
1450	Introduction of porous structure via facile carbon-dot modulation: A feasible and promising approach for improving the photocatalytic capability of sulfur doped g-C3N4. Catalysis Today, 2019, 335, 502-510.	4.4	44
1451	Effect of g-C3N4 precursors on the morphological structures of g-C3N4/ZnO composite photocatalysts. Journal of Alloys and Compounds, 2019, 788, 1084-1092.	5.5	70
1452	Multifield-tunable magneto-optical effects in electron- and hole-doped nitrogen–graphene crystals. Journal of Materials Chemistry C, 2019, 7, 3360-3368.	5.5	10

#	Article	IF	CITATIONS
1453	Synergistic adsorption and visible-light catalytic degradation of RhB from recyclable 3D mesoporous graphitic carbon nitride/reduced graphene oxide aerogels. Journal of Materials Science, 2019, 54, 8892-8906.	3.7	29
1454	Enhanced organic pollutant photodegradation via adsorption/photocatalysis synergy using a 3D g-C3N4/TiO2 free-separation photocatalyst. Chemical Engineering Journal, 2019, 370, 287-294.	12.7	258
1455	Facile and green synthesis of copper nanoparticles loaded on the amorphous carbon nitride for the oxidation of cyclohexane. Chemical Engineering Journal, 2019, 370, 1310-1321.	12.7	76
1456	Synthesis of silver-loaded ZnO nanorods and their enhanced photocatalytic activity and photoconductivity study. Photochemical and Photobiological Sciences, 2019, 18, 1503-1511.	2.9	48
1457	Synthesis and Photocatalytic Activity of Fluorine DOPED-g-C ₃ N ₄ . Applied Mechanics and Materials, 0, 889, 24-32.	0.2	15
1458	Eradicating Multidrugâ€Resistant Bacteria Rapidly Using a Multi Functional g ₃ N ₄ @ Bi ₂ S ₃ Nanorod Heterojunction with or without Antibiotics. Advanced Functional Materials, 2019, 29, 1900946.	14.9	136
1459	Further activation of g-C3N4 with less N-H defects for enhancing photocatalytic hydrogen evolution. Catalysis Communications, 2019, 125, 114-117.	3.3	2
1460	A thiophene-modified doubleshell hollow g-C ₃ N ₄ nanosphere boosts NADH regeneration <i>via</i> synergistic enhancement of charge excitation and separation. Catalysis Science and Technology, 2019, 9, 1911-1921.	4.1	35
1461	Atomically dispersed Mo atoms on amorphous g-C3N4 promotes visible-light absorption and charge carriers transfer. Applied Catalysis B: Environmental, 2019, 250, 273-279.	20.2	92
1462	Heptazine-based porous polymer for selective CO2 sorption and visible light photocatalytic oxidation of benzyl alcohol. Microporous and Mesoporous Materials, 2019, 282, 9-14.	4.4	12
1463	A "ship-in-a-bottle―strategy to fabricate highly crystallized nanoporous graphitic C ₃ N ₄ microspheres under pressurized conditions. Journal of Materials Chemistry A, 2019, 7, 8952-8959.	10.3	37
1464	Enhanced photocatalytic H2 production over dual-cocatalyst-modified g-C3N4 heterojunctions. Chinese Journal of Catalysis, 2019, 40, 434-445.	14.0	133
1465	Synthesis of Porous Boron-Doped Carbon Nitride: Adsorption Capacity and Photo-Regeneration Properties. International Journal of Environmental Research and Public Health, 2019, 16, 581.	2.6	13
1466	Effect of the intra- and inter-triazine N-vacancies on the photocatalytic hydrogen evolution of graphitic carbon nitride. Chemical Engineering Journal, 2019, 369, 263-271.	12.7	55
1467	Challenges of Synthesis and Environmental Applications of Metal-Free Nano-heterojunctions. Environmental Chemistry for A Sustainable World, 2019, , 107-138.	0.5	0
1468	Carbon Nitride: A Wonder Photocatalyst. Environmental Chemistry for A Sustainable World, 2019, , 167-209.	0.5	1
1469	Novelty in Designing of Photocatalysts for Water Splitting and CO2 Reduction. Environmental Chemistry for A Sustainable World, 2019, , 41-65.	0.5	1
1470	Electrochemical Properties of Polyoxometalate (H3PMo12O40)-Functionalized Graphitic Carbon Nitride (g-C3N4). Electrocatalysis, 2019, 10, 392-398.	3.0	11

#	Article	IF	CITATIONS
1471	Engineering MPx (M = Fe, Co or Ni) interface electron transfer channels for boosting photocatalytic H2 evolution over g-C3N4/MoS2 layered heterojunctions. Applied Catalysis B: Environmental, 2019, 252, 250-259.	20.2	188
1472	β-FeSe nanorods composited g-C ₃ N ₄ with enhanced photocatalytic efficiency. Royal Society Open Science, 2019, 6, 181886.	2.4	6
1473	Selfâ€Sacrificial Templateâ€Directed Vaporâ€Phase Growth of MOF Assemblies and Surface Vulcanization for Efficient Water Splitting. Advanced Materials, 2019, 31, e1806672.	21.0	248
1474	Graphene quantum dots decorated graphitic carbon nitride nanorods for photocatalytic removal of antibiotics. Journal of Colloid and Interface Science, 2019, 548, 56-65.	9.4	148
1475	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. Journal of Materials Chemistry A, 2019, 7, 11584-11612.	10.3	174
1476	Photocatalytic degradation of real industrial poultry wastewater via platinum decorated BiVO4/g-C3N4 photocatalyst under solar light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 46-56.	3.9	40
1477	Facile band alignment of C3N4/CdS/MoS2 sandwich hybrid for efficient charge separation and high photochemical performance under visible-light. Powder Technology, 2019, 351, 222-228.	4.2	18
1478	Potential-Resolved Electrochemiluminescence Nanoprobes for Visual Apoptosis Evaluation at Single-Cell Level. Analytical Chemistry, 2019, 91, 6363-6370.	6.5	52
1479	Visible-light-driven photoreduction of CO ₂ to CO over porous nitrogen-deficient carbon nitride nanotubes. Catalysis Science and Technology, 2019, 9, 2485-2492.	4.1	26
1480	<i>N</i> , <i>N</i> -Dimethylformamide assisted hydrothermal introduction of MoS ₂ on ultrathin g-C ₃ N ₄ layers with enhanced visible light photocatalytic hydrogen evolution activity. Sustainable Energy and Fuels, 2019, 3, 1461-1467.	4.9	21
1481	Facile one-step synthesis of graphitic carbon nitride-modified biochar for the removal of reactive red 120 through adsorption and photocatalytic degradation. Biochar, 2019, 1, 89-96.	12.6	50
1482	Highly efficient photocatalytic hydrogen evolution from water-soluble conjugated polyelectrolytes. Nano Energy, 2019, 60, 775-783.	16.0	82
1483	Surface Amino Group Regulation and Structural Engineering of Graphitic Carbon Nitride with Enhanced Photocatalytic Activity by Ultrafast Ammonia Plasma Immersion Modification. ACS Applied Materials & Interfaces, 2019, 11, 14952-14959.	8.0	39
1484	Physical vapor deposition (PVD): a method to fabricate modified g-C3N4 sheets. New Journal of Chemistry, 2019, 43, 6683-6687.	2.8	14
1485	Controllable assembly of single/double-thin-shell g-C ₃ N ₄ vesicles <i>via</i> a shape-selective solid-state templating method for efficient photocatalysis. Journal of Materials Chemistry A, 2019, 7, 17815-17822.	10.3	33
1486	Homogeneous Doping of Substitutional Nitrogen/Carbon in TiO ₂ Plates for Visible Light Photocatalytic Water Oxidation. Advanced Functional Materials, 2019, 29, 1901943.	14.9	61
1487	Preparation of highly dispersed WO3/few layer g-C3N4 and its enhancement of catalytic oxidative desulfurization activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 250-258.	4.7	49
1488	Artificial photosynthesis of ethanol using type-II g-C3N4/ZnTe heterojunction in photoelectrochemical CO2 reduction system. Nano Energy, 2019, 60, 827-835.	16.0	126

#	Article	IF	CITATIONS
1489	Modifying Carbon Nitride through Extreme Phosphorus Substitution. , 2019, 1, 14-19.		13
1491	Engineered g-C ₃ N ₄ Quantum Dots for Tunable Two-Photon Imaging and Photodynamic Therapy. ACS Applied Bio Materials, 2019, 2, 1998-2005.	4.6	42
1492	Graphitic carbon nitride synthesized by simple pyrolysis: role of precursor in photocatalytic hydrogen production. New Journal of Chemistry, 2019, 43, 6909-6920.	2.8	116
1493	A Facile and Green Combined Strategy for Improving Photocatalytic Activity of Carbon Nitride. ACS Omega, 2019, 4, 6114-6125.	3.5	22
1494	Nontoxic Carbon Quantum Dots/g ₃ N ₄ for Efficient Photocatalytic Inactivation of <i>Staphylococcus aureus</i> under Visible Light. Advanced Healthcare Materials, 2019, 8, e1801534.	7.6	67
1495	Review of strategies for the fabrication of heterojunctional nanocomposites as efficient visible-light catalysts by modulating excited electrons with appropriate thermodynamic energy. Journal of Materials Chemistry A, 2019, 7, 10879-10897.	10.3	98
1496	Recent Advances in the Disinfection of Water Using Nanoscale Antimicrobial Materials. Advanced Materials Technologies, 2019, 4, 1800213.	5.8	21
1497	Design of Pt/t-ZrO2/g-C3N4 efficient photocatalyst for the hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 251, 305-312.	20.2	118
1498	Precursor-reforming strategy induced g-C3N4 microtubes with spatial anisotropic charge separation established by conquering hydrogen bond for enhanced photocatalytic H2-production performance. Journal of Colloid and Interface Science, 2019, 547, 224-233.	9.4	37
1499	Cobalt-doped carbon nitride supported on ordered mesoporous carbon as noble metal-free oxygen reduction electrocatalysts. Journal of Physics and Chemistry of Solids, 2019, 131, 111-118.	4.0	11
1500	Noble Metal-Free Photocatalysts Consisting of Graphitic Carbon Nitride, Nickel Complex, and Nickel Oxide Nanoparticles for Efficient Hydrogen Generation. ACS Applied Materials & Interfaces, 2019, 11, 14986-14996.	8.0	42
1501	Enhanced photocatalytic activity of graphitic carbon nitride synthesized by protonated precursor approach. Journal of Power Sources, 2019, 424, 176-183.	7.8	17
1502	Efficient visible light driven degradation of sulfamethazine and tetracycline by salicylic acid modified polymeric carbon nitride via charge transfer. Chemical Engineering Journal, 2019, 370, 1077-1086.	12.7	143
1503	Visible-light-driven g-C3N4/Cu2O heterostructures with efficient photocatalytic activities for tetracycline degradation and microbial inactivation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 1-8.	3.9	37
1504	Ag _x H _{3â^'x} PMo ₁₂ O ₄₀ /Ag nanorods/g-C ₃ N ₄ 1D/2D Z-scheme heterojunction for highly efficient visible-light photocatalysis. Dalton Transactions, 2019, 48, 6484-6491.	3.3	32
1505	Photocatalytic 4-nitrophenol degradation and oxygen evolution reaction in CuO/g-C ₃ N ₄ composites prepared by deep eutectic solvent-assisted chlorine doping. Dalton Transactions, 2019, 48, 8594-8610.	3.3	48
1506	A facile approach to constructing Pd@PCN–Se nano-composite catalysts for selective alcohol oxidation reactions. Journal of Materials Chemistry A, 2019, 7, 10918-10923.	10.3	41
1507	A direct one-step synthesis of ultrathin g-C3N4 nanosheets from thiourea for boosting solar photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2019, 44, 7194-7204.	7.1	164

#	Article	IF	CITATIONS
1508	Tailoring carbon nitride properties and photoactivity by interfacial engineering of hydrogen-bonded frameworks. Nanoscale, 2019, 11, 5564-5570.	5.6	21
1509	Acetic acid-assisted supramolecular assembly synthesis of porous g-C3N4 hexagonal prism with excellent photocatalytic activity. Applied Surface Science, 2019, 479, 757-764.	6.1	53
1510	Rational design of Pd-TiO2/g-C3N4 heterojunction with enhanced photocatalytic activity through interfacial charge transfer. Clean Energy, 2019, 3, 59-68.	3.2	7
1511	Superwettabilityâ€Based Interfacial Chemical Reactions. Advanced Materials, 2019, 31, e1800718.	21.0	128
1512	Ultra‣ow Loading of Ru Clusters over Graphitic Carbon Nitride: A Drastic Enhancement in Photocatalytic Hydrogen Evolution Activity. ChemCatChem, 2019, 11, 1963-1969.	3.7	21
1513	Enhanced photocatalytic NOx oxidation and storage under visible-light irradiation by anchoring Fe3O4 nanoparticles on mesoporous graphitic carbon nitride (mpg-C3N4). Applied Catalysis B: Environmental, 2019, 249, 126-137.	20.2	64
1514	Insight into the mechanism for photocatalytic degradation of ciprofloxacin with CeO2. Optik, 2019, 183, 266-272.	2.9	22
1515	ZnSe Nanorods as Visibleâ€Light Absorbers for Photocatalytic and Photoelectrochemical H ₂ Evolution in Water. Angewandte Chemie, 2019, 131, 5113-5117.	2.0	18
1516	Self-assembly as a key player for materials nanoarchitectonics. Science and Technology of Advanced Materials, 2019, 20, 51-95.	6.1	322
1517	Accelerating Photogenerated Charge Kinetics via the Synergetic Utilization of 2D Semiconducting Structural Advantages and Nobleâ€Metalâ€Free Schottky Junction Effect. Small, 2019, 15, e1804613.	10.0	56
1518	Construction of Ag/AgCl-CN heterojunctions with enhanced photocatalytic activities for degrading contaminants in wastewater. Journal of Colloid and Interface Science, 2019, 543, 25-33.	9.4	31
1519	Fabrication of interlayer β-CD/g-C ₃ N ₄ @MoS ₂ for highly enhanced photodegradation of glyphosate under simulated sunlight irradiation. RSC Advances, 2019, 9, 4635-4643.	3.6	26
1520	Edge-Functionalized g-C3N4 Nanosheets as a Highly Efficient Metal-free Photocatalyst for Safe Drinking Water. CheM, 2019, 5, 664-680.	11.7	219
1521	Visible light-driven simultaneous H ₂ production by water splitting coupled with selective oxidation of HMF to DFF catalyzed by porous carbon nitride. Journal of Materials Chemistry A, 2019, 7, 5643-5649.	10.3	92
1522	Growth of MoS2 nanosheets on TiO2/g-C3N4 nanocomposites to enhance the visible-light photocatalytic ability. Journal of Materials Science: Materials in Electronics, 2019, 30, 5393-5403.	2.2	10
1523	Decoration of carbon dots over hydrogen peroxide treated graphitic carbon nitride: Exceptional photocatalytic performance in removal of different contaminants under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 374, 161-172.	3.9	113
1524	Strategy for improving the visible photocatalytic H2 evolution activity of 2D graphitic carbon nitride nanosheets through the modification with metal and metal oxide nanocomponents. Applied Catalysis B: Environmental, 2019, 248, 538-551.	20.2	64
1525	Designing Defective Crystalline Carbon Nitride to Enable Selective CO ₂ Photoreduction in the Gas Phase. Advanced Functional Materials, 2019, 29, 1900093.	14.9	254

#	Article	IF	CITATIONS
1526	Hybrid g-C3N4 nanosheet/carbon paper membranes for the photocatalytic degradation of methylene blue. Materials Letters, 2019, 244, 151-154.	2.6	33
1527	Visible-light-driven photocatalytic disinfection of human adenovirus by a novel heterostructure of oxygen-doped graphitic carbon nitride and hydrothermal carbonation carbon. Applied Catalysis B: Environmental, 2019, 248, 11-21.	20.2	101
1528	In-situ growth of Zn–AgIn5S8 quantum dots onÂg-C3N4 towards 0D/2D heterostructured photocatalysts with enhanced hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 15882-15891.	7.1	135
1529	Template-free synthesis of nanocage-like g-C ₃ N ₄ with high surface area and nitrogen defects for enhanced photocatalytic H ₂ activity. Journal of Materials Chemistry A, 2019, 7, 5324-5332.	10.3	130
1530	Bio-template synthesis of Mo-doped polymer carbon nitride for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 248, 44-53.	20.2	96
1531	Band structure modification of g-C3N4 for efficient heterojunction construction and enhanced photocatalytic capability under visible light irradiation. Catalysis Communications, 2019, 123, 44-48.	3.3	18
1532	EPR investigations of polymeric and H2O2-modified C3N4-based photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 100-113.	3.9	38
1533	A general strategy <i>via</i> chemically covalent combination for constructing heterostructured catalysts with enhanced photocatalytic hydrogen evolution. Chemical Communications, 2019, 55, 4150-4153.	4.1	45
1534	Nanoparticle-Hydrogel Composites: From Molecular Interactions to Macroscopic Behavior. Polymers, 2019, 11, 275.	4.5	142
1535	WC _{1â^'x} â€Coupled 3D Porous Defective gâ€C ₃ N ₄ for Efficient Photocatalytic Overall Water Splitting. Solar Rrl, 2019, 3, 1800341.	5.8	38
1536	Trapping of CO2 by Cr–Cr quintuple bonds. A theoretical approach. Polyhedron, 2019, 163, 153-160.	2.2	1
1537	Roles of N-Vacancies over Porous g-C ₃ N ₄ Microtubes during Photocatalytic NO <i>_x</i> Removal. ACS Applied Materials & Interfaces, 2019, 11, 10651-10662.	8.0	210
1538	Recent advances in structure design for enhancing photocatalysis. Journal of Materials Science, 2019, 54, 8831-8851.	3.7	50
1539	Two-dimensional Sn2Ta2O7 nanosheets as efficient visible light-driven photocatalysts for hydrogen evolution. Rare Metals, 2019, 38, 397-403.	7.1	49
1540	Gold Nanoparticle-Decorated g-C ₃ N ₄ Nanosheets for Controlled Generation of Reactive Oxygen Species upon 670 nm Laser Illumination. ACS Applied Materials & Interfaces, 2019, 11, 10589-10596.	8.0	75
1541	Combination of polyoxotantalate and metal sulfide: A new-type noble-metal-free binary photocatalyst Na8Ta6O19/Cd0.7Zn0.3S for highly efficient visible-light-driven H2 evolution. Applied Catalysis B: Environmental, 2019, 248, 423-429.	20.2	47
1542	A differential photoelectrochemical hydrogen peroxide sensor based on catalytic activity difference between two zeolitic imidazolate framework surface coatings. Talanta, 2019, 197, 138-144.	5.5	6
1543	Modulating charge transfer dynamics for g-C ₃ N ₄ through a dimension and interface engineered transition metal phosphide co-catalyst for efficient visible-light photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 6939-6945.	10.3	64

ARTICLE IF CITATIONS Graphitic carbon nitride based ternary nanocomposites: From synthesis to their applications in 1544 4.9 74 photocatalysis: A recent review. Journal of Molecular Liquids, 2019, 281, 634-654. Photocatalytic H2 evolution of porous silicon derived from magnesiothermic reduction of 1545 7.1 24 mesoporous SiO2. International Journal of Hydrogen Energy, 2019, 44, 7216-7221. Highly improved photoreduction of carbon dioxide to methanol using cobalt phthalocyanine grafted to graphitic carbon nitride as photocatalyst under visible light irradiation. Journal of Colloid and 1546 70 9.4 Interface Science, 2019, 543, 201-213. Developing a Novel Layered Boron Nitride–Carbon Nitride Composite with High Efficiency and Selectivity To Remove Protonated Dyes from Water. ACS Sustainable Chemistry and Engineering, 2019, 7, 5727-5741. 1547 Green synthesis of a AgCl@AgI nanocomposite using <i>Laminaria japonica</i> extract and its 1548 7 3.6 application as a visible-light-driven photocatalyst. RSC Advances, 2019, 9, 5858-5864. Coreâ€"shell g-C3N4@Zn0.5Cd0.5S heterojunction photocatalysts with high photocatalytic activity for 1549 the degradation of organic dyes. Journal of Materials Science: Materials in Electronics, 2019, 30, 2.2 5284-5296. Synthesis of Z-scheme g-C3N4/PPy/Bi2WO6 composite with enhanced visible-light photocatalytic 1550 5.2 58 performance. Materials Research Bulletin, 2019, 113, 241-249. Learning from Natural Leaves: Going Green with Artificial Photosynthesis Forum. ACS Applied Materials & amp; Interfaces, 2019, 11, 5579-5580. 8.0 9 Fabrication of multiporphyrin@g-C3N4 nanocomposites via Pd(II)-directed layer-by-layer assembly for 1552 6.1 18 enhanced visible-light photocatalytic activity. Applied Surface Science, 2019, 478, 1027-1036. Cocatalysts for Selective Photoreduction of CO₂into Solar Fuels. Chemical Reviews, 1,591 2019, 119, 3962-4179. Improving Photovoltaic and Enzymatic Sensing Performance by Coupling a Coreâ€"Shell Au Nanorod@TiO₂ Heterostructure with the Bioinspired <scp>I</scp>-DOPA Polymer. ACS 1554 8.0 29 Applied Materials & amp; Interfaces, 2019, 11, 9394-9404. C₃N₅: A Low Bandgap Semiconductor Containing an Azo-Linked Carbon Nitride Framework for Photocatalytic, Photovoltaic and Adsorbent Applications. Journal of the American 13.7 464 Chemical Society, 2019, 141, 5415-5436. Electro- and Solar-Driven Fuel Synthesis with First Row Transition Metal Complexes. Chemical 1556 47.7 615 Reviews, 2019, 119, 2752-2875. Atomic palladium on graphitic carbon nitride as a hydrogen evolution catalyst under visible light 4.5 irradiation. Communications Chemistry, 2019, 2, . Photocatalysts Fabricated by Depositing Ag on Co-g-C₃N₄ and Its Enhanced Visible-Light Photocatalytic Performance. IOP Conference Series: Materials Science and Engineering, 1558 0.6 3 2019, 678, 012126. Improved Visible-Light Photocatalytic Activity of g-C3N4/CuWO4 Nanocomposite for Degradation of Methylene Blue. Proceedings (mdpi), 2020, 41, . The Biological Transformation of Energy Supply and Storage – Technologies and Scenarios for 1560 1.9 12 Biointelligent Value Creation. Procedia Manufacturing, 2019, 39, 1204-1214. Donor–Acceptor Cyanocarbazoleâ€Based Supramolecular Photocatalysts for Visibleâ€Lightâ€Driven 6.8 H₂ Production. ChemSusChem, 2019, 12, 5070-5074.

#	Article	IF	CITATIONS
1562	Hierarchical Composite of Roseâ€Like VS ₂ @S/Nâ€Doped Carbon with Expanded (001) Planes for Superior Liâ€lon Storage. Small, 2019, 15, e1903904.	10.0	64
1563	Hybrid materials based on conjugated polymers and inorganic semiconductors as photocatalysts: from environmental to energy applications. Chemical Society Reviews, 2019, 48, 5454-5487.	38.1	228
1564	29. Photocatalytic approaches for converting CO2 into fuels and feedstocks. , 2019, , 635-656.		0
1565	Non enzymatic fluorometric determination of glucose by using quenchable g-C3N4 quantum dots. Mikrochimica Acta, 2019, 186, 779.	5.0	10
1566	Bottom-up fabrication of graphitic carbon nitride nanosheets modified with porphyrin via covalent bonding for photocatalytic H2 evolution. Nano Research, 2019, 12, 3109-3115.	10.4	44
1567	Photosensitized H ₂ Evolution and NADPH Formation by Photosensitizer/Carbon Nitride Hybrid Nanoparticles. Nano Letters, 2019, 19, 9121-9130.	9.1	13
1568	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. Environmental Science: Nano, 2019, 6, 3324-3335.	4.3	16
1569	Surface modification of porous g-C ₃ N ₄ materials using a waste product for enhanced photocatalytic performance under visible light. Green Chemistry, 2019, 21, 5934-5944.	9.0	31
1570	Facile synthesis of tin-doped polymeric carbon nitride with a hole-trapping center for efficient charge separation and photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 25824-25829.	10.3	16
1571	Highly dispersive and stable Fe ³⁺ active sites on 2D graphitic carbon nitride nanosheets for efficient visible-light photocatalytic nitrogen fixation. Journal of Materials Chemistry A, 2019, 7, 27547-27559.	10.3	142
1572	Scalable nanohybrids of graphitic carbon nitride and layered NiCo hydroxide for high supercapacitive performance. RSC Advances, 2019, 9, 33643-33652.	3.6	22
1573	Ultrasensitive photoelectrochemical microRNA biosensor based on doxorubicin sensitized graphitic carbon nitride assisted by a target-activated enzyme-free DNA walker. Chemical Communications, 2019, 55, 13082-13084.	4.1	20
1574	Rh/polymeric carbon nitride porous tubular catalyst: visible light enhanced chlorophenol hydrodechlorination in base-free aqueous medium. Catalysis Science and Technology, 2019, 9, 6938-6945.	4.1	21
1575	<i>In situ</i> construction of WO ₃ /g-C ₃ N ₄ composite photocatalyst with 2D–2D heterostructure for enhanced visible light photocatalytic performance. New Journal of Chemistry, 2019, 43, 17416-17422.	2.8	22
1576	Hierarchical macro-mesoporous g-C ₃ N ₄ with an inverse opal structure and vacancies for high-efficiency solar energy conversion and environmental remediation. Nanoscale, 2019, 11, 20638-20647.	5.6	67
1577	Two-dimensional group-VA nanomaterials beyond black phosphorus: synthetic methods, properties, functional nanostructures and applications. Journal of Materials Chemistry A, 2019, 7, 25712-25771.	10.3	49
1578	Branch-like ZnS–DETA/CdS hierarchical heterostructures as an efficient photocatalyst for visible light CO ₂ reduction. Journal of Materials Chemistry A, 2019, 7, 26877-26883.	10.3	91
1579	Composition-Controlled CdS/ZnS Heterostructure Nanocomposites for Efficient Visible Light Photocatalytic Hydrogen Generation. Industrial & Engineering Chemistry Research, 2019, 58, 22709-22717.	3.7	35

#	Article	IF	CITATIONS
1580	Barrierless Heptazine-Driven Excited State Proton-Coupled Electron Transfer: Implications for Controlling Photochemistry of Carbon Nitrides and Aza-Arenes. Journal of Physical Chemistry C, 2019, 123, 29580-29588.	3.1	21
1581	Tunable Electronic Properties of Graphene/g-AlN Heterostructure: The Effect of Vacancy and Strain Engineering. Nanomaterials, 2019, 9, 1674.	4.1	32
1582	Construction of Direct Z-Scheme Photocatalyst by Mg _{1.2} Ti _{1.8} O ₅ and g-C ₃ N ₄ Nanosheets toward Photocatalytic H ₂ Production and Disinfection. International Journal of Photoenergy, 2019, 2019, 1-9.	2.5	5
1583	A voltammetric sensor for simultaneous determination of hydroquinone and catechol by using a heterojunction prepared from gold nanoparticle and graphitic carbon nitride. Mikrochimica Acta, 2019, 186, 819.	5.0	19
1584	Metal-organic framework derived Co@NC/CNT hybrid as a multifunctional electrocatalyst for hydrogen and oxygen evolution reaction and oxygen reduction reaction. International Journal of Hydrogen Energy, 2019, 44, 32054-32065.	7.1	65
1585	Rational Ionothermal Copolymerization of TCNQ with PCN Semiconductor for Enhanced Photocatalytic Full Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 46756-46766.	8.0	56
1586	Recent Strategies for Hydrogen Peroxide Production by Metal-Free Carbon Nitride Photocatalysts. Catalysts, 2019, 9, 990.	3.5	50
1587	How g-C ₃ N ₄ Works and Is Different from TiO ₂ as an Environmental Photocatalyst: Mechanistic View. Environmental Science & Technology, 2020, 54, 497-506.	10.0	76
1588	Hydrogen Production from Ammonia Borane over PtNi Alloy Nanoparticles Immobilized on Graphite Carbon Nitride. Catalysts, 2019, 9, 1009.	3.5	17
1589	Enhancement of photoelectrochemical organics degradation and power generation by electrodeposited coatings of g-C ₃ N ₄ and graphene on TiO ₂ nanotube arrays. Nanoscale Advances, 2019, 1, 4128-4136.	4.6	8
1590	Facile synthesis of a novel WO ₃ /Ag ₂ MoO ₄ particles-on-plate staggered type II heterojunction with improved visible-light photocatalytic activity in removing environmental pollutants. RSC Advances, 2019, 9, 34804-34813.	3.6	21
1591	One-step, high-yield synthesis of g-C ₃ N ₄ nanosheets for enhanced visible light photocatalytic activity. RSC Advances, 2019, 9, 39304-39314.	3.6	20
1592	Salt-template-assisted construction of honeycomb-like structured g-C3N4 with tunable band structure for enhanced photocatalytic H2 production. Applied Catalysis B: Environmental, 2019, 240, 64-71.	20.2	143
1593	Facile oxalic acid-assisted construction of laminated porous N-deficient graphitic carbon nitride: Highly efficient visible-light-driven hydrogen evolution photocatalyst. Journal of Energy Chemistry, 2019, 33, 1-8.	12.9	25
1594	Megamerger in photocatalytic field: 2D g-C3N4 nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. Applied Catalysis B: Environmental, 2019, 240, 153-173.	20.2	310
1595	Insights into rapid photodynamic inactivation mechanism of Staphylococcus aureus via rational design of multifunctional nitrogen-rich carbon-coated bismuth/cobalt nanoparticles. Applied Catalysis B: Environmental, 2019, 241, 167-177.	20.2	67
1596	Hybrids of Fullerenes and 2D Nanomaterials. Advanced Science, 2019, 6, 1800941.	11.2	98
1597	Noble metal-free NiS2 with rich active sites loaded g-C3N4 for highly efficient photocatalytic H2 evolution under visible light irradiation. Journal of Colloid and Interface Science, 2019, 534, 343-349.	9.4	57

#	Article	IF	CITATIONS
1598	NH2-MIL-101(Fe)/Ni(OH)2-derived C,N-codoped Fe2P/Ni2P cocatalyst modified g-C3N4 for enhanced photocatalytic hydrogen evolution from water splitting. Applied Catalysis B: Environmental, 2019, 241, 178-186.	20.2	175
1599	The effect of fast and slow surface states on photoelectrochemical performance of hematite photoanodes fabricated by electrodeposition and hydrothermal methods. Journal of Materials Science, 2019, 54, 659-670.	3.7	16
1600	Looking at the overlooked hole oxidation: Photocatalytic transformation of organic contaminants on graphitic carbon nitride under visible light irradiation. Applied Catalysis B: Environmental, 2019, 240, 262-269.	20.2	41
1601	Atomic-level insight into the mechanism of 0D/2D black phosphorus quantum dot/graphitic carbon nitride (BPQD/GCN) metal-free heterojunction for photocatalysis. Applied Surface Science, 2019, 463, 1148-1153.	6.1	64
1602	Construction of <i>in situ</i> self-assembled FeWO ₄ /g-C ₃ N ₄ nanosheet heterostructured Z-scheme photocatalysts for enhanced photocatalytic degradation of rhodamine B and tetracycline. Nanoscale Advances, 2019, 1, 322-333.	4.6	64
1603	Influence of hydrogen and halogen adsorption on the photocatalytic water splitting activity of C2N monolayer: A first-principles study. Carbon, 2019, 141, 50-58.	10.3	54
1604	Uniform CdS-decorated carbon microsheets with enhanced photocatalytic hydrogen evolution under visible-light irradiation. Journal of Alloys and Compounds, 2019, 770, 886-895.	5.5	39
1605	In-situ construction of coral-like porous P-doped g-C3N4 tubes with hybrid 1D/2D architecture and high efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 241, 159-166.	20.2	231
1606	Targeted modulation of g-C3N4 photocatalytic performance for pharmaceutical pollutants in water using ZnFe-LDH derived mixed metal oxides: Structure-activity and mechanism. Science of the Total Environment, 2019, 650, 1112-1121.	8.0	70
1607	In-situ synthesis of Z-scheme Ag2CO3/Ag/AgNCO heterojunction photocatalyst with enhanced stability and photocatalytic activity. Applied Surface Science, 2019, 464, 108-114.	6.1	52
1608	Thermal chemical vapor deposition and luminescence property of graphitic carbon nitride film for carbon-based semiconductor systems. Japanese Journal of Applied Physics, 2019, 58, 010907.	1.5	19
1609	CdS nanospheres hybridized with graphitic C ₃ N ₄ for effective photocatalytic hydrogen generation under visible light irradiation. Applied Organometallic Chemistry, 2019, 33, e4671.	3.5	13
1610	Fabrication of surface alkalinized g-C3N4 and TiO2 composite for the synergistic adsorption-photocatalytic degradation of methylene blue. Applied Surface Science, 2019, 473, 855-863.	6.1	74
1611	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. Chemical Society Reviews, 2019, 48, 488-516.	38.1	564
1612	Exceptional photocatalytic activity for g-C3N4 activated by H2O2 and integrated with Bi2S3 and Fe3O4 nanoparticles for removal of organic and inorganic pollutants. Advanced Powder Technology, 2019, 30, 524-537.	4.1	52
1613	2D/2D Graphitic Carbon Nitride/Antimonene Heterostructure: Structural Characterization and Application in Photocatalysis. Advanced Sustainable Systems, 2019, 3, 1800138.	5.3	30
1614	Hierarchical Znâ€Doped CoO Nanoflowers for Electrocatalytic Oxygen Evolution Reaction. ChemCatChem, 2019, 11, 1480-1486.	3.7	24
1615	Fabrication of high photoreactive carbon nitride nanosheets by polymerization of amidinourea for hydrogen production. Applied Catalysis B: Environmental, 2019, 245, 197-206.	20.2	62

#	Article	IF	CITATIONS
1616	MOFs-derived ultrathin holey Co3O4 nanosheets for enhanced visible light CO2 reduction. Applied Catalysis B: Environmental, 2019, 244, 996-1003.	20.2	207
1617	A two-photon excited O2-evolving nanocomposite for efficient photodynamic therapy against hypoxic tumor. Biomaterials, 2019, 194, 84-93.	11.4	88
1618	Fabrication of large surface area nitrogen vacancy modified graphitic carbon nitride with improved visible-light photocatalytic performance. Diamond and Related Materials, 2019, 91, 230-236.	3.9	34
1619	G-C3N4-based films: A rising star for photoelectrochemical water splitting. Sustainable Materials and Technologies, 2019, 19, e00089.	3.3	44
1620	Photocatalytic Hydrogen Evolution from Water Using Fluorene and Dibenzothiophene Sulfone-Conjugated Microporous and Linear Polymers. Chemistry of Materials, 2019, 31, 305-313.	6.7	173
1621	Plasmonic Graphene-Like Au/C ₃ N ₄ Nanosheets with Barrier-Free Interface for Photocatalytically Sustainable Evolution of Active Oxygen Species. ACS Sustainable Chemistry and Engineering, 2019, 7, 2018-2026.	6.7	34
1622	Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. Applied Catalysis B: Environmental, 2019, 245, 87-99.	20.2	543
1623	Progress and perspective on two-dimensional unilamellar metal oxide nanosheets and tailored nanostructures from them for electrochemical energy storage. Energy Storage Materials, 2019, 19, 281-298.	18.0	34
1624	Sodium alginate-templated synthesis of g-C3N4/carbon spheres/Cu ternary nanohybrids for fire safety application. Journal of Colloid and Interface Science, 2019, 539, 1-10.	9.4	51
1625	Review on photocatalytic and electrocatalytic artificial nitrogen fixation for ammonia synthesis at mild conditions: Advances, challenges and perspectives. Nano Research, 2019, 12, 1229-1249.	10.4	301
1626	2D MOFs enriched g-C3N4 nanosheets for highly efficient charge separation and photocatalytic hydrogen evolution from water. International Journal of Hydrogen Energy, 2019, 44, 2797-2810.	7.1	60
1627	Understanding Charge Transport in Carbon Nitride for Enhanced Photocatalytic Solar Fuel Production. Accounts of Chemical Research, 2019, 52, 248-257.	15.6	93
1628	Hollowsphere Nanoheterojunction of g-C ₃ N ₄ @TiO ₂ with High Visible Light Photocatalytic Property. Langmuir, 2019, 35, 779-786.	3.5	70
1629	Graphitic Carbon Nitride with Carbon Vacancies for Photocatalytic Degradation of Bisphenol A. ACS Applied Nano Materials, 2019, 2, 517-524.	5.0	92
1630	Chemoselective Hydrodeoxygenation of Carboxylic Acids to Hydrocarbons over Nitrogen-Doped Carbon–Alumina Hybrid Supported Iron Catalysts. ACS Catalysis, 2019, 9, 1564-1577.	11.2	66
1631	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. Chemical Reviews, 2019, 119, 1806-1854.	47.7	745
1632	Integration of 3D macroscopic graphene aerogel with 0D-2D AgVO3-g-C3N4 heterojunction for highly efficient photocatalytic oxidation of nitric oxide. Applied Catalysis B: Environmental, 2019, 243, 576-584.	20.2	60
1633	Photocatalytic degradation of phenol wastewater over Z-scheme g-C3N4/CNT/BiVO4 heterostructure photocatalyst under solar light irradiation. Journal of Molecular Liquids, 2019, 277, 977-988.	4.9	116

#	Article	IF	CITATIONS
1634	Generated gas molecules-modified carbon nitride nanosheets with nitrogen vacancies and high efficient photocatalytic hydrogen evolution. Applied Surface Science, 2019, 470, 724-732.	6.1	26
1635	Enhanced CO2 photoreduction via tuning halides in perovskites. Journal of Catalysis, 2019, 369, 201-208.	6.2	117
1636	Coordination-driven synthesis of perfected π-conjugated graphitic carbon nitride with efficient charge transfer for oxygen activation and gas purification. Journal of Colloid and Interface Science, 2019, 538, 237-247.	9.4	9
1637	Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots. , 2019, , 759-781.		28
1638	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. Angewandte Chemie - International Edition, 2019, 58, 1134-1137.	13.8	208
1639	One-step synthesis of Fe-doped surface-alkalinized g-C3N4 and their improved visible-light photocatalytic performance. Applied Surface Science, 2019, 469, 739-746.	6.1	103
1640	Ultrafine 1D graphene interlayer in g-C3N4/graphene/recycled carbon fiber heterostructure for enhanced photocatalytic hydrogen generation. Chemical Engineering Journal, 2019, 359, 1352-1359.	12.7	46
1641	Highly biocompatible phenylboronic acid-functionalized graphitic carbon nitride quantum dots for the selective glucose sensor. Sensors and Actuators B: Chemical, 2019, 282, 36-44.	7.8	65
1642	Bimetallic Manganese Cobalt Phosphide Nanodots–Modified Graphitic Carbon Nitride for Highâ€Performance Hydrogen Production. Energy Technology, 2019, 7, 1800927.	3.8	18
1643	Photoâ€Induced Hydrogel Formation Based on gâ€C ₃ N ₄ Nanosheets with Selfâ€Crossâ€Linked 3D Framework for UV Protection Application. Macromolecular Materials and Engineering, 2019, 304, 1800500.	3.6	26
1644	Photocatalysis and Photoelectrocatalysis Methods of Nitrogen Reduction for Sustainable Ammonia Synthesis. Small Methods, 2019, 3, 1800352.	8.6	144
1645	Cu2O modified g-C3N4 as an effective catalyst for the synthesis of propargylamines: experimental, quantum mechanical mechanistic and kinetic study. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 265-282.	1.7	11
1646	Ultrathin 2D Conjugated Polymer Nanosheets for Solar Fuel Generation. Chinese Journal of Polymer Science (English Edition), 2019, 37, 101-114.	3.8	12
1647	Enhanced photocatalytic Cr(VI) reduction and diclofenac sodium degradation under simulated sunlight irradiation over MIL-100(Fe)/g-C3N4 heterojunctions. Chinese Journal of Catalysis, 2019, 40, 70-79.	14.0	136
1648	Graphitic carbon nitrideâ€chitosan composites–anchored palladium nanoparticles as highâ€performance catalyst for ammonia borane hydrolysis. International Journal of Energy Research, 2019, 43, 535-543.	4.5	36
1649	Cobalt oxide loaded graphitic carbon nitride as adsorptive photocatalyst for tetracycline removal from aqueous solution. Chemosphere, 2019, 218, 169-178.	8.2	33
1650	Tailored indium sulfide-based materials for solar-energy conversion and utilization. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 38, 1-26.	11.6	127
1651	Rational Design and Construction of Cocatalysts for Semiconductorâ€Based Photoâ€Electrochemical Oxygen Evolution: A Comprehensive Review. Advanced Science, 2019, 6, 1801505.	11.2	120

	CITATION REF	PORT	
#	Article	IF	Citations
1652	Porous core-shell TixSn1-xO2 solid solutions with broad-light response: One-pot synthesis and ultrahigh photooxidation performance. Applied Catalysis B: Environmental, 2019, 244, 45-55.	20.2	26
1653	Graphitic carbon nitride co-modified by zinc phthalocyanine and graphene quantum dots for the efficient photocatalytic degradation of refractory contaminants. Applied Catalysis B: Environmental, 2019, 244, 96-106.	20.2	109
1654	Construction of CdS quantum dots modified g-C3N4/ZnO heterostructured photoanode for efficient photoelectrochemical water splitting. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 109-117.	3.9	36
1655	Multi-heterojunction of SnO2/Bi2O3/BiOI nanofibers: Facile fabrication with enhanced visible-light photocatalytic performance. Materials Research Bulletin, 2019, 111, 202-211.	5.2	16
1656	Robust three-dimensional g-C3N4@cellulose aerogel enhanced by cross-linked polyester fibers for simultaneous removal of hexavalent chromium and antibiotics. Chemical Engineering Journal, 2019, 359, 119-129.	12.7	55
1657	Phosphorus Quantum Dots-Facilitated Enrichment of Electrons on g-C ₃ N ₄ Hollow Tubes for Visible-Light-Driven Nicotinamide Adenine Dinucleotide Regeneration. ACS Sustainable Chemistry and Engineering, 2019, 7, 285-295.	6.7	49
1658	Facile synthesis of rod-like g-C3N4 by decorating Mo2C co-catalyst for enhanced visible-light photocatalytic activity. Applied Surface Science, 2019, 470, 565-572.	6.1	59
1659	Mn-doped g-C3N4 composite to activate peroxymonosulfate for acetaminophen degradation: The role of superoxide anion and singlet oxygen. Chemical Engineering Journal, 2019, 359, 723-732.	12.7	320
1660	Type II heterojunction in hierarchically porous zinc oxide/graphitic carbon nitride microspheres promoting photocatalytic activity. Journal of Colloid and Interface Science, 2019, 538, 99-107.	9.4	49
1661	Semiconductor Photocatalysis for Water Purification. , 2019, , 581-651.		68
1662	Impact of doped metals on urea-derived g-C3N4 for photocatalytic degradation of antibiotics: Structure, photoactivity and degradation mechanisms. Applied Catalysis B: Environmental, 2019, 244, 475-485.	20.2	212
1663	A critical review in strategies to improve photocatalytic water splitting towards hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 540-577.	7.1	573
1664	Enhanced visible light photoreduction of aqueous Cr(VI) by Ag/Bi4O7/g-C3N4 nanosheets ternary metal/non-metal Z-scheme heterojunction. Journal of Hazardous Materials, 2019, 365, 674-683.	12.4	76
1665	Phosphorusâ€doped Isotype g ₃ N ₄ /g ₃ N ₄ ?g ₃ N ₄ : An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. ChemCatChem, 2019, 11, 729-736.	3.7	42
1666	Localized Surface Plasmon Resonance Enhanced Photocatalytic Hydrogen Evolution via Pt@Au NRs/C ₃ N ₄ Nanotubes under Visible‣ight Irradiation. Advanced Functional Materials, 2019, 29, 1806774.	14.9	129
1667	Laser-induced synthesis and photocatalytic properties of hybrid organic–inorganic composite layers. Journal of Materials Science, 2019, 54, 3927-3941.	3.7	18
1668	Rational design of graphic carbon nitride copolymers by molecular doping for visible-light-driven degradation of aqueous sulfamethazine and hydrogen evolution. Chemical Engineering Journal, 2019, 359, 186-196.	12.7	195
1669	TiO2@g-C3N4 heterojunction with directional charge migration behavior for photodegradation of tetracycline antibiotics. Materials Letters, 2019, 236, 622-624.	2.6	15

#	Article	IF	CITATIONS
1670	WO3 nanosheets/g-C3N4 nanosheets' nanocomposite as an effective photocatalyst for degradation of rhodamine B. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	34
1671	Highly enhanced visible-light photocatalytic hydrogen evolution on g-C3N4 decorated with vopc through Ï∈-Ï€ interaction. Chinese Journal of Catalysis, 2019, 40, 168-176.	14.0	31
1672	Strengthened spatial charge separation over Z-scheme heterojunction photocatalyst for efficient photocatalytic H2 evolution. Applied Surface Science, 2019, 475, 453-461.	6.1	23
1673	Introduction of nitrogen defects into a graphitic carbon nitride framework by selenium vapor treatment for enhanced photocatalytic hydrogen production. Applied Surface Science, 2019, 476, 552-559.	6.1	32
1674	Molecule Self-Assembly Synthesis of Porous Few-Layer Carbon Nitride for Highly Efficient Photoredox Catalysis. Journal of the American Chemical Society, 2019, 141, 2508-2515.	13.7	685
1675	Construction of dual defect mediated Z-scheme photocatalysts for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 245, 399-409.	20.2	174
1676	Organic/inorganic nitride heterostructure for efficient photocatalytic oxygen evolution. Applied Surface Science, 2019, 475, 256-263.	6.1	15
1677	Self-hybridized coralloid graphitic carbon nitride deriving from deep eutectic solvent as effective visible light photocatalysts. Carbon, 2019, 144, 649-658.	10.3	29
1678	An Effective Approach to Improve the Photocatalytic Activity of Graphitic Carbon Nitride via Hydroxyl Surface Modification. Catalysts, 2019, 9, 17.	3.5	15
1679	Photocatalytic evolution of H2 from aqueous solutions of two-component electron-donor substrates in the presence of g-C3N4 activated by heat treatment in the KCl + LiCl melt. Applied Surface Science, 2019, 475, 348-354.	6.1	21
1680	Preparation and photocatalytic properties of magnetic g-C3N4/TNTs nanocomposites. Molecular Catalysis, 2019, 465, 24-32.	2.0	15
1681	Sub-5 nm Ultra-Fine FeP Nanodots as Efficient Co-Catalysts Modified Porous g-C ₃ N ₄ for Precious-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. ACS Applied Materials & Interfaces, 2019, 11, 5651-5660.	8.0	208
1682	Creating Well-Defined Hexabenzocoronene in Zirconium Metal–Organic Framework by Postsynthetic Annulation. Journal of the American Chemical Society, 2019, 141, 2054-2060.	13.7	148
1683	Synthesis and Applications of Nanomaterials With High Photocatalytic Activity on Air Purification. , 2019, , 299-325.		4
1684	Noble-metal-free MOF derived hollow CdS/TiO2 decorated with NiS cocatalyst for efficient photocatalytic hydrogen evolution. Applied Surface Science, 2019, 476, 378-386.	6.1	81
1685	Insight into the mechanisms for hexavalent chromium reduction and sulfisoxazole degradation catalyzed by graphitic carbon nitride: The Yin and Yang in the photo-assisted processes. Chemosphere, 2019, 221, 166-174.	8.2	63
1686	Cytotoxicity of Shear Exfoliated Pnictogen (As, Sb, Bi) Nanosheets. Chemistry - A European Journal, 2019, 25, 2242-2249.	3.3	34
1687	Conjugated donor-acceptor polymer photocatalysts with electron-output "tentacles―for efficient hydrogen evolution. Applied Catalysis B: Environmental, 2019, 245, 596-603.	20.2	187

#	Article	IF	CITATIONS
1688	Fabrication of pyrimidine/g-C3N4 nanocomposites for efficient photocatalytic activity under visible-light illumination. Dyes and Pigments, 2019, 163, 634-640.	3.7	28
1689	Facile synthesis of two-dimensional tailored graphitic carbon nitride with enhanced photoelectrochemical properties through a three-step polycondensation method for photocatalysis and photoelectrochemical immunosensor. Sensors and Actuators B: Chemical, 2019, 285, 42-48.	7.8	19
1690	Facile fabrication of phosphorus-doped g-C3N4 exhibiting enhanced visible light photocatalytic degradation performance toward textile dye. Solid State Sciences, 2019, 89, 150-155.	3.2	24
1691	Gaseous bubble-assisted in-situ construction of worm-like porous g-C3N4 with superior visible light photocatalytic performance. Applied Catalysis A: General, 2019, 573, 13-21.	4.3	24
1692	Facile Two-Step Synthesis of Porous Carbon Nitride with Enhanced Photocatalytic Activity Using a Soft Template. ACS Sustainable Chemistry and Engineering, 2019, 7, 3866-3874.	6.7	39
1693	g-C3N4 photoanode for photoelectrocatalytic synergistic pollutant degradation and hydrogen evolution. Applied Surface Science, 2019, 467-468, 658-665.	6.1	82
1694	Rice-husk-derived mesoporous 0D/2D C3N4 isotype heterojunction with improved quantum effect for photodegradation of tetracycline antibiotics. Ceramics International, 2019, 45, 2234-2240.	4.8	18
1695	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. Angewandte Chemie, 2019, 131, 6225-6236.	2.0	378
1696	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 6164-6175.	13.8	481
1697	Enhanced photocatalytic hydrogen evolution by partially replaced corner-site C atom with P in g-C3N4. Applied Catalysis B: Environmental, 2019, 244, 486-493.	20.2	103
1698	Activation of graphitic carbon nitride by surface discharge plasma treatment for enhanced photocatalysis. Vacuum, 2019, 159, 235-238.	3.5	9
1699	Micro/nano-structured ultrathin g-C3N4/Ag nanoparticle hybrids as efficient electrochemical biosensors for l-tyrosine. Applied Surface Science, 2019, 467-468, 608-618.	6.1	47
1700	lsotype heterojunction g-C ₃ N ₄ /g-C ₃ N ₄ nanosheets as 2D support to highly dispersed 0D metal oxide nanoparticles: Generalized self-assembly and its high photocatalytic activity. Journal Physics D: Applied Physics, 2019, 52, 025501.	2.8	46
1701	Porous graphitic carbon nitride with lamellar structure: Facile synthesis via in-site supramolecular self-assembly in alkaline solutions and superior photocatalytic activity. Advanced Powder Technology, 2019, 30, 120-125.	4.1	8
1702	Facile fabrication of g-C3N4 QDs/BiVO4 Z-scheme heterojunction towards enhancing photodegradation activity under visible light. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 669-681.	5.3	104
1703	Controlled assemble of hollow heterostructured g-C3N4@CeO2 with rich oxygen vacancies for enhanced photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2019, 243, 566-575.	20.2	287
1704	Facile molten salt synthesis of atomically thin boron nitride nanosheets and their co-catalytic effect on the performance of carbon nitride photocatalyst. Journal of Colloid and Interface Science, 2019, 536, 664-672.	9.4	38
1705	Ultrathin 2D/2D WO3/g-C3N4 step-scheme H2-production photocatalyst. Applied Catalysis B: Environmental, 2019, 243, 556-565.	20.2	1,895

#	Article	IF	CITATIONS
1706	Photocatalytic decomposition of N2O over g-C3N4/BiVO4 composite. Applied Surface Science, 2019, 469, 181-191.	6.1	24
1707	In situ decoration of Au nanoparticles on carbon nitride using a single-source precursor and its application for the detection of tetracycline. Journal of Colloid and Interface Science, 2019, 536, 646-654.	9.4	39
1708	Highly efficient degradation of 2,4-dichlorophenol over CeO2/g-C3N4 composites under visible-light irradiation: Detailed reaction pathway and mechanism. Journal of Hazardous Materials, 2019, 364, 635-644.	12.4	152
1709	Rational construction of direct Z-scheme LaMnO3/g-C3N4 hybrid for improved visible-light photocatalytic tetracycline degradation. Separation and Purification Technology, 2019, 211, 882-894.	7.9	72
1710	Photocatalytic degradation of ibuprofen in water using TiO2/UV and g-C3N4/visible light: Study of intermediate degradation products by liquid chromatography coupled to high-resolution mass spectrometry. Chemosphere, 2019, 215, 605-618.	8.2	65
1711	Rational synthesis of MnxCd1-xS for enhanced photocatalytic H2 evolution: Effects of S precursors and the feed ratio of Mn/Cd on its structure and performance. Journal of Colloid and Interface Science, 2019, 535, 469-480.	9.4	80
1712	Construction of Z-Scheme g-C3N4/RGO/WO3 with in situ photoreduced graphene oxide as electron mediator for efficient photocatalytic degradation of ciprofloxacin. Chemosphere, 2019, 215, 444-453.	8.2	152
1713	The Development of Cocatalysts for Photoelectrochemical CO ₂ Reduction. Advanced Materials, 2019, 31, e1804710.	21.0	202
1714	Chemical reduction implanted oxygen vacancy on the surface of 1D MoO3â´`x/g-C3N4 composite for boosted LED light-driven photoactivity. Journal of Materials Science, 2019, 54, 5343-5358.	3.7	36
1715	Enzyme-free multicolor biosensor based on Cu2+-modified carbon nitride nanosheets and gold nanobipyramids for sensitive detection of neuron specific enolase. Sensors and Actuators B: Chemical, 2019, 283, 138-145.	7.8	43
1716	Bimetallic PtAu Alloy Nanoparticles-Integrated g-C ₃ N ₄ Hybrid as an Efficient Photocatalyst for Water-to-Hydrogen Conversion. ACS Applied Materials & Interfaces, 2019, 11, 478-488.	8.0	113
1717	Fabrication of a Perylene Tetracarboxylic Diimide–Graphitic Carbon Nitride Heterojunction Photocatalyst for Efficient Degradation of Aqueous Organic Pollutants. ACS Applied Materials & Interfaces, 2019, 11, 588-602.	8.0	70
1718	Ultrathin Carbon Nitride with Atomic-Level Intraplane Implantation of Graphited Carbon Ring Domain for Superior Photocatalytic Activity in the Visible/Near-Infrared Region. ACS Sustainable Chemistry and Engineering, 2019, 7, 1239-1249.	6.7	40
1719	Achieving Efficient Incorporation of ï€â€Electrons into Graphitic Carbon Nitride for Markedly Improved Hydrogen Generation. Angewandte Chemie - International Edition, 2019, 58, 1985-1989.	13.8	199
1720	Degradation study of malachite green on chitosan films containing heterojunctions of melon/TiO2 absorbing visible-light in solid-gas interfaces. Applied Catalysis B: Environmental, 2019, 244, 773-785.	20.2	25
1721	Minireview: Selective production of hydrogen peroxide as a clean oxidant over structurally tailored carbon nitride photocatalysts. Catalysis Today, 2019, 335, 55-64.	4.4	72
1722	One pot synthesis of bismuth oxide/graphitic carbon nitride composites with high photocatalytic activity. Molecular Catalysis, 2019, 463, 110-118.	2.0	39
1723	Guiding Principles for Designing Highly Efficient Metalâ€Free Carbon Catalysts. Advanced Materials, 2019, 31, e1805252.	21.0	110

#	Article	IF	CITATIONS
1724	Oxygen vacancy-rich ultrathin sulfur-doped bismuth oxybromide nanosheet as a highly efficient visible-light responsive photocatalyst for environmental remediation. Chemical Engineering Journal, 2019, 360, 838-847.	12.7	79
1725	Heterogeneous photocatalysis: guidelines on experimental setup, catalyst characterization, interpretation, and assessment of reactivity. Catalysis Reviews - Science and Engineering, 2019, 61, 163-213.	12.9	49
1726	Two-dimensional g-C3N4/TiO2 nanocomposites as vertical Z-scheme heterojunction for improved photocatalytic water disinfection. Catalysis Today, 2019, 335, 243-251.	4.4	93
1727	Simultaneously engineering K-doping and exfoliation into graphitic carbon nitride (g-C3N4) for enhanced photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 778-787.	7.1	71
1728	Visible-light degradation of sulfonamides by Z-scheme ZnO/g-C3N4 heterojunctions with amorphous Fe2O3 as electron mediator. Journal of Colloid and Interface Science, 2019, 538, 256-266.	9.4	110
1729	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. Angewandte Chemie, 2019, 131, 1146-1149.	2.0	42
1730	Controllable Synthesis of Inverse Opal TiO _{2â€<i>x</i>} Photonic Crystals and Their Photoelectric Properties. Chemistry - an Asian Journal, 2019, 14, 322-327.	3.3	6
1731	Metalâ€free Semiconductor Photocatalysis for sp ² Câ^'H Functionalization with Molecular Oxygen. ChemCatChem, 2019, 11, 703-706.	3.7	37
1732	Recent Developments in Graphitic Carbon Nitride Based Hydrogels as Photocatalysts. ChemSusChem, 2019, 12, 1794-1806.	6.8	87
1733	Waterâ€Dispersed Conjugated Polyelectrolyte for Visible‣ight Hydrogen Production. Solar Rrl, 2019, 3, 1800255.	5.8	28
1734	One step to prepare CNTs modified porous g-C3N4 with excellent visible-light photocatalytic performance. Journal of Materials Science: Materials in Electronics, 2019, 30, 1714-1723.	2.2	16
1735	Tunable Type I and II heterojunction of CoOx nanoparticles confined in g-C3N4 nanotubes for photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2019, 244, 814-822.	20.2	151
1736	Dramatically enhanced photoelectrochemical properties and transformed p/n type of g-C3N4 caused by K and I co-doping. Electrochimica Acta, 2019, 297, 488-496.	5.2	34
1737	Insight into photocatalytic activity, universality and mechanism of copper/chlorine surface dual-doped graphitic carbon nitride for degrading various organic pollutants in water. Journal of Colloid and Interface Science, 2019, 538, 462-473.	9.4	80
1738	Fabrication of novel 1D/2D V2O5/g-C3N4 composites as Z-scheme photocatalysts for CR degradation and Cr (VI) reduction under sunlight irradiation. Journal of Environmental Chemical Engineering, 2019, 7, 102822.	6.7	58
1739	A general approach for fabricating 3D MFe2O4 (M=Mn, Ni, Cu, Co)/graphitic carbon nitride covalently functionalized nitrogen-doped graphene nanocomposites as advanced anodes for lithium-ion batteries. Nano Energy, 2019, 57, 48-56.	16.0	75
1740	Black phosphorus supported Ni2P co-catalyst on graphitic carbon nitride enabling simultaneous boosting charge separation and surface reaction. Applied Catalysis B: Environmental, 2019, 242, 422-430.	20.2	120
1741	A g-C3N4@ppy-rGO 3D structure hydrogel for efficient photocatalysis. Applied Surface Science, 2019, 466, 666-672.	6.1	104

#	Article	IF	CITATIONS
1742	Photocatalytic hydrogen evolution with simultaneous antibiotic wastewater degradation via the visible-light-responsive bismuth spheres-g-C3N4 nanohybrid: Waste to energy insight. Chemical Engineering Journal, 2019, 358, 944-954.	12.7	102
1743	Fabrication of freestanding NFC/g-C3N4 composite film as supercapacitor electrode via vacuum-induced self-assembly. Vacuum, 2019, 160, 54-59.	3.5	15
1744	Co1.4Ni0.6P cocatalysts modified metallic carbon black/g-C3N4 nanosheet Schottky heterojunctions for active and durable photocatalytic H2 production. Applied Surface Science, 2019, 466, 393-400.	6.1	117
1745	Reduced graphene oxide supporting Ag meso-flowers and phenyl-modified graphitic carbon nitride as self-cleaning flexible SERS membrane for molecular trace-detection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 9-19.	4.7	22
1746	Synthesis of nano-Ag-assisted attapulgite/g-C3N4 composites with superior visible light photocatalytic performance. Materials Chemistry and Physics, 2019, 221, 447-456.	4.0	34
1747	Enhanced visible photocatalytic oxidation of NO by repeated calcination of g-C3N4. Applied Surface Science, 2019, 465, 1037-1046.	6.1	90
1748	Insight into OH and O2â^' formation in heterogeneous catalytic ozonation by delocalized electrons and surface oxygen-containing functional groups in layered-structure nanocarbons. Chemical Engineering Journal, 2019, 357, 655-666.	12.7	72
1749	Graphitic carbon nitride (g-C3N4)-based photocatalysts for water disinfection and microbial control: A review. Chemosphere, 2019, 214, 462-479.	8.2	304
1750	Removal of acetylsalicylate and methyl-theobromine from aqueous environment using nano-photocatalyst WO3-TiO2 @g-C3N4 composite. Journal of Hazardous Materials, 2019, 363, 205-213.	12.4	157
1751	Ni-Mo nanoparticles as co-catalyst for drastically enhanced photocatalytic hydrogen production activity over g-C3N4. Applied Catalysis B: Environmental, 2019, 243, 136-144.	20.2	117
1752	Environmental Catalysis: Present and Future. ChemCatChem, 2019, 11, 18-38.	3.7	87
1753	A New and stable Mo-Mo2C modified g-C3N4 photocatalyst for efficient visible light photocatalytic H2 production. Applied Catalysis B: Environmental, 2019, 243, 27-35.	20.2	170
1754	The effect of N-doped form on visible light photoactivity of Z-scheme g-C3N4/TiO2 photocatalyst. Applied Surface Science, 2019, 466, 268-273.	6.1	27
1755	Synthesis and Applications of Graphdiyneâ€Based Metalâ€Free Catalysts. Advanced Materials, 2019, 31, e1803762.	21.0	143
1756	Highly effective and green microwave catalytic oxidation degradation of nitrophenols over Bi2O2CO3 based composites without extra chemical additives. Chemosphere, 2019, 214, 319-329.	8.2	19
1757	Boosting visible-light photocatalytic performance of g-C3N4/Fe3O4 anchored with CoMoO4 nanoparticles: Novel magnetically recoverable photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 368, 120-136.	3.9	143
1758	Directional electron delivery and enhanced reactants activation enable efficient photocatalytic air purification on amorphous carbon nitride co-functionalized with O/La. Applied Catalysis B: Environmental, 2019, 242, 19-30.	20.2	103
1759	Simultaneously enhanced photon absorption and charge transport on a distorted graphitic carbon nitride toward visible light photocatalytic activity. Applied Catalysis B: Environmental, 2019, 242, 40-50.	20.2	74

# 1760	ARTICLE Novel AgCl/g-C3N4 heterostructure nanotube: Ultrasonic synthesis, characterization, and photocatalytic activity. Materials Letters, 2019, 234, 179-182.	IF 2.6	CITATIONS
1761	Recent developments in fabrication and structure regulation of visible-light-driven g-C3N4-based photocatalysts towards water purification: A critical review. Catalysis Today, 2019, 335, 65-77.	4.4	351
1762	Surface and Heterointerface Engineering of 2D MXenes and Their Nanocomposites: Insights into Electro- and Photocatalysis. CheM, 2019, 5, 18-50.	11.7	579
1763	Improved visible-light photoactivity of Pt/g-C3N4 nanosheets for solar fuel production via pretreated boric acid modification. Research on Chemical Intermediates, 2019, 45, 249-259.	2.7	16
1764	Boosted photoelectrochemical immunosensing of metronidazole in tablet using coral-like g-C3N4 nanoarchitectures. Biosensors and Bioelectronics, 2019, 123, 7-13.	10.1	35
1765	Nitrogen vacancies modified graphitic carbon nitride: Scalable and one-step fabrication with efficient visible-light-driven hydrogen evolution. Chemical Engineering Journal, 2019, 358, 20-29.	12.7	101
1766	Solar Energy Harvesting with Carbon Nitrides and Nâ€Heterocyclic Frameworks: Do We Understand the Mechanism?. ChemPhotoChem, 2019, 3, 10-23.	3.0	31
1767	Defects remodeling of g-C3N4 nanosheets by fluorine-containing solvothermal treatment to enhance their photocatalytic activities. Applied Surface Science, 2019, 474, 194-202.	6.1	42
1768	Construction of a few-layer g-C3N4/α-MoO3 nanoneedles all-solid-state Z-scheme photocatalytic system for photocatalytic degradation. Journal of Energy Chemistry, 2019, 29, 65-71.	12.9	54
1769	Fluorine doped TiO2/mesocellular foams with an efficient photocatalytic activity. Catalysis Today, 2019, 327, 340-346.	4.4	38
1770	Sonophotocatalytic degradation of bisphenol A and its intermediates with graphitic carbon nitride. Environmental Science and Pollution Research, 2019, 26, 1082-1093.	5.3	63
1771	Transient photoinduced phenomena in graphitic carbon nitride as measured at nanoseconds resolution by step-scan FTIR. Catalysis Today, 2020, 340, 97-105.	4.4	31
1772	Effect of precursor types on the performance of polyimide: A metal-free visible-light-driven photocatalyst for effective photocatalytic degradation of pollutants. Catalysis Today, 2020, 340, 225-235.	4.4	21
1773	Light-assisted preparation of heterostructured g-C3N4/ZnO nanorods arrays for enhanced photocatalytic hydrogen performance. Catalysis Today, 2020, 355, 932-936.	4.4	33
1774	Synthesis Strategies and Structural Design of Porous Carbonâ€Incorporated Anodes for Sodiumâ€Ion Batteries. Small Methods, 2020, 4, 1900163.	8.6	49
1775	Co3O4 imbedded g-C3N4 heterojunction photocatalysts for visible-light-driven hydrogen evolution. Renewable Energy, 2020, 145, 691-698.	8.9	117
1776	Preparation of carbon nitride nanoparticles by nanoprecipitation method with high yield and enhanced photocatalytic activity. Chinese Chemical Letters, 2020, 31, 513-516.	9.0	29
1777	Rational construction of plasmon Au assisted ferroelectric-BaTiO3/Au/g-C3N4 Z-scheme system for efficient photocatalysis. Catalysis Today, 2020, 355, 311-318.	4.4	51

#	Article	IF	CITATIONS
1778	Synthesis of few-layer N-doped graphene from expandable graphite with melamine and its application in supercapacitors. Chinese Chemical Letters, 2020, 31, 559-564.	9.0	17
1779	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. Advanced Energy Materials, 2020, 10, 1900486.	19.5	123
1780	Outstanding response of carbon nitride photocatalysts for selective synthesis of aldehydes under UV-LED irradiation. Catalysis Today, 2020, 357, 32-38.	4.4	12
1781	Construction of high efficient g-C3N4 nanosheets combined with Bi2MoO6-Ag photocatalysts for visible-light-driven photocatalytic activity and inactivation of bacterias. Arabian Journal of Chemistry, 2020, 13, 2439-2455.	4.9	50
1782	Dye-sensitized graphitic carbon nitride (g-C3N4) for photocatalysis: a brief review. Chemical Papers, 2020, 74, 389-406.	2.2	43
1783	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. Materials Horizons, 2020, 7, 411-454.	12.2	291
1784	Porous graphitic carbon nitride nanoplates obtained by a combined exfoliation strategy for enhanced visible light photocatalytic activity. Applied Surface Science, 2020, 499, 143901.	6.1	28
1785	Role of reactive oxygen species in the photocatalytic degradation of methyl orange and tetracycline by Ag3PO4 polyhedron modified with g-C3N4. Materials Science in Semiconductor Processing, 2020, 105, 104731.	4.0	33
1786	Facile constructing of isotype g-C3N4(bulk)/g-C3N4(nanosheet) heterojunctions through thermal polymerization of single-source glucose-modified melamine: An efficient charge separation system for photocatalytic hydrogen production. Applied Surface Science, 2020, 500, 143985.	6.1	58
1787	One-step synthesis of novel K+ and cyano groups decorated triazine-/heptazine-based g-C3N4 tubular homojunctions for boosting photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2020, 262, 118252.	20.2	172
1788	A novel SiC/Zn0.5Cd0.5S solid-state Z-scheme system and its enhanced hydrogen production activity. Applied Surface Science, 2020, 500, 144009.	6.1	18
1789	Modulation of the photocatalytic performance of g-C3N4 by two-sites co-doping using variable valence metal. Applied Surface Science, 2020, 500, 144036.	6.1	20
1790	Inactivation of antibiotic resistance gene by ternary nanocomposites of carbon nitride, reduced graphene oxide and iron oxide under visible light. Chemical Engineering Journal, 2020, 382, 122857.	12.7	26
1791	Adsorption enhanced photocatalytic degradation sulfadiazine antibiotic using porous carbon nitride nanosheets with carbon vacancies. Chemical Engineering Journal, 2020, 382, 123017.	12.7	83
1792	A Theory/Experience Description of Support Effects in Carbon-Supported Catalysts. Chemical Reviews, 2020, 120, 1250-1349.	47.7	436
1793	Emerging surface strategies on graphitic carbon nitride for solar driven water splitting. Chemical Engineering Journal, 2020, 382, 122812.	12.7	155
1794	Nitrogen doped carbon ribbons modified g-C3N4 for markedly enhanced photocatalytic H2-production in visible to near-infrared region. Chemical Engineering Journal, 2020, 382, 122870.	12.7	169
1795	Green preparation of Ag-ZnO-rGO nanoparticles for efficient adsorption and photodegradation activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 584, 124011.	4.7	40

#	Article	IF	CITATIONS
1796	Poly(dibenzothiophene-S,S-dioxide) with visible light-induced hydrogen evolution rate up to 44.2â€ [–] mmol hâ^'1 gâ^'1 promoted by K2HPO4. Applied Catalysis B: Environmental, 2020, 261, 118230.	20.2	40
1797	5 nm NiCoP nanoparticles coupled with g-C3N4 as high-performance photocatalyst for hydrogen evolution. Science China Materials, 2020, 63, 258-266.	6.3	60
1798	In-situ growth of all-solid Z-scheme heterojunction photocatalyst of Bi7O9I3/g-C3N4 and high efficient degradation of antibiotic under visible light. Applied Catalysis B: Environmental, 2020, 261, 118212.	20.2	192
1799	Facile synthesis of AgNPs modified TiO2@g-C3N4 heterojunction composites with enhanced photocatalytic activity under simulated sunlight. Materials Research Bulletin, 2020, 121, 110641.	5.2	62
1800	Enhanced visible-light photocatalytic H2 production of hierarchical g-C3N4 hexagon by one-step self-assembly strategy. Applied Surface Science, 2020, 499, 143942.	6.1	16
1801	Enhancing hydrogen evolution reaction by strain engineering in free-standing doped FeS monolayer. Materials Chemistry and Physics, 2020, 239, 122046.	4.0	6
1802	Facile synthesis of silicon-doped polymeric carbon nitride with enhanced photocatalytic performance. Journal of Alloys and Compounds, 2020, 815, 152488.	5.5	12
1803	Highly nitrogen-doped porous carbon transformed from graphitic carbon nitride for efficient metal-free catalysis. Journal of Hazardous Materials, 2020, 393, 121280.	12.4	105
1804	Improved photocatalytic performance for selective oxidation of amines to imines on graphitic carbon nitride/bismuth tungstate heterojunctions. Journal of Colloid and Interface Science, 2020, 560, 40-49.	9.4	92
1805	Characteristics, mechanisms and bacteria behavior of photocatalysis with a solid Z-scheme Ag/AgBr/g-C3N4 nanosheet in water disinfection. Applied Catalysis A: General, 2020, 590, 117282.	4.3	56
1806	Inter-plane heterojunctions within 2D/2D FeSe2/g-C3N4 nanosheet semiconductors for photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2020, 261, 118249.	20.2	192
1807	Fe-Pt nanoclusters modified Mott-Schottky photocatalysts for enhanced ammonia synthesis at ambient conditions. Applied Catalysis B: Environmental, 2020, 262, 118276.	20.2	40
1808	Photocatalytic activity of N-TiO2/O-doped N vacancy g-C3N4 and the intermediates toxicity evaluation under tetracycline hydrochloride and Cr(VI) coexistence environment. Applied Catalysis B: Environmental, 2020, 262, 118308.	20.2	402
1809	Oxidized impurity in transition metal nitride for improving the hydrogen evolution efficiency of transition metal nitride-based catalyst. Applied Materials Today, 2020, 18, 100476.	4.3	19
1810	Integration of nickel complex as a cocatalyst onto in-plane benzene ring-incorporated graphitic carbon nitride nanosheets for efficient photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 381, 122635.	12.7	32
1811	Tunable mesoporous g-C3N4 nanosheets as a metal-free catalyst for enhanced visible-light-driven photocatalytic reduction of U(VI). Chemical Engineering Journal, 2020, 383, 123193.	12.7	117
1812	Nanomaterials Developed for Removing Air Pollutants. , 2020, , 203-247.		1
1813	Co-doped Mo-Mo2C cocatalyst for enhanced g-C3N4 photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2020, 260, 118220.	20.2	113

#	Article	IF	CITATIONS
1814	Graphitic carbon nitride catalyzes selective oxidative dehydrogenation of propane. Applied Catalysis B: Environmental, 2020, 262, 118277.	20.2	47
1815	Exponential Stability of a Schrödinger Equation Through Boundary Coupling a Wave Equation. IEEE Transactions on Automatic Control, 2020, 65, 3136-3142.	5.7	5
1816	Nanostructured Carbon Nitrides for CO ₂ Capture and Conversion. Advanced Materials, 2020, 32, e1904635.	21.0	188
1817	Production of Hydrogen Peroxide by Photocatalytic Processes. Angewandte Chemie - International Edition, 2020, 59, 17356-17376.	13.8	615
1818	Graphitic carbon nitride (g ₃ N ₄) reinforced polymer nanocomposite systems—A review. Polymer Composites, 2020, 41, 430-442.	4.6	65
1819	Heterojunctions of halogen-doped carbon nitride nanosheets and BiOI for sunlight-driven water-splitting. Nanotechnology, 2020, 31, 084001.	2.6	23
1820	Robust, Superelastic Hard Carbon with In Situ Ultrafine Crystals. Advanced Functional Materials, 2020, 30, 1907486.	14.9	20
1821	Shortâ€ŧime Thermal Oxidation of Ultrathin and Broadband Carbon Nitride for Efficient Photocatalytic H ₂ Generation. ChemCatChem, 2020, 12, 1169-1176.	3.7	7
1822	Functionalized g-C3N4 sheets assisted synthesis of growth-oriented MIL-88B-Fe with rod-like structure: Upgrading framework photo-catalytic performance and stability. Applied Surface Science, 2020, 503, 144089.	6.1	57
1823	Come to light: Detailed analysis of thermally treated Phenyl modified Carbon Nitride Polymorphs for bright phosphors in lighting applications. Applied Surface Science, 2020, 504, 144330.	6.1	25
1824	Surface engineering of hollow carbon nitride microspheres for efficient photoredox catalysis. Chemical Engineering Journal, 2020, 381, 122593.	12.7	49
1825	In-situ homodispersely immobilization of Ag@AgCl on chloridized g-C3N4 nanosheets as an ultrastable plasmonic photocatalyst. Chemical Engineering Journal, 2020, 384, 123259.	12.7	64
1826	When C3N4 meets BaTiO3: Ferroelectric polarization plays a critical role in building a better photocatalyst. Ceramics International, 2020, 46, 4248-4255.	4.8	34
1827	Bandgap engineering in graphitic carbon nitride: Effect of precursors. Optik, 2020, 202, 163601.	2.9	30
1828	Nitrogen-rich graphitic carbon nitride nanotubes for photocatalytic hydrogen evolution with simultaneous contaminant degradation. Journal of Colloid and Interface Science, 2020, 560, 555-564.	9.4	53
1829	Theoretical insights into sensing of hexavalent chromium on buckled and planar polymeric carbon nitride nanosheets of heptazine and triazine structures. Molecular Simulation, 2020, 46, 54-61.	2.0	28
1830	Electrochemical detection of microRNAs based on AuNPs/CNNS nanocomposite with Duplex-specific nuclease assisted target recycling to improve the sensitivity. Talanta, 2020, 208, 120441.	5.5	17
1831	Z-scheme SnFe2O4-graphitic carbon nitride: Reusable, magnetic catalysts for enhanced photocatalytic CO2 reduction. Chemical Engineering Journal, 2020, 383, 123172.	12.7	66

#	Article	IF	CITATIONS
1832	Improved visible-light activities of g-C3N4 nanosheets by co-modifying nano-sized SnO2 and Ag for CO2 reduction and 2,4-dichlorophenol degradation. Materials Research Bulletin, 2020, 122, 110676.	5.2	36
1833	DFT investigation for NH3 adsorption behavior on Fe, Ru, and Os-embedded graphitic carbon nitride: promising candidates for ammonia adsorbent. Journal of the Iranian Chemical Society, 2020, 17, 25-35.	2.2	6
1834	Synthesis, characterization and application of silver doped graphitic carbon nitride as photocatalyst towards visible light photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 23937-23946.	7.1	63
1835	Functionalized Polymer-Based Composite Photocatalysts. Environmental Chemistry for A Sustainable World, 2020, , 167-188.	0.5	3
1836	Promoting condensation kinetics of polymeric carbon nitride for enhanced photocatalytic activities. Chinese Chemical Letters, 2020, 31, 115-118.	9.0	20
1837	Green Photocatalysts. Environmental Chemistry for A Sustainable World, 2020, , .	0.5	5
1838	Photodegradation mechanism and genetic toxicity of bezafibrate by Pd/g-C3N4 catalysts under simulated solar light irradiation: The role of active species. Chemical Engineering Journal, 2020, 379, 122294.	12.7	36
1839	Rapid toxicity elimination of organic pollutants by the photocatalysis of environment-friendly and magnetically recoverable step-scheme SnFe2O4/ZnFe2O4 nano-heterojunctions. Chemical Engineering Journal, 2020, 379, 122264.	12.7	238
1840	Highly durable isotypic heterojunction generated by covalent cross-linking with organic linkers for improving visible-light-driven photocatalytic performance. Applied Catalysis B: Environmental, 2020, 260, 118182.	20.2	20
1841	â€~Chinese Students Syndrome' in Australia: colonial modernity and the possibilities of alternative framing. Higher Education, 2020, 79, 605-618.	4.4	7
1842	Determination of a thiol-based ionic liquid using ultrathin graphitic carbon nitride nanosheets as a nanofluoroprobe. Talanta, 2020, 207, 120291.	5.5	4
1843	Defect as the essential factor in engineering carbon-nitride-based visible-light-driven Z-scheme photocatalyst. Applied Catalysis B: Environmental, 2020, 260, 118145.	20.2	62
1844	Naphthalimide-porphyrin hybridized graphitic carbon nitride for enhanced photocatalytic hydrogen production. Applied Surface Science, 2020, 499, 143755.	6.1	32
1845	Enhanced mineralization of oxalate by highly active and Stable Ce(III)-Doped g-C3N4 catalyzed ozonation. Chemosphere, 2020, 239, 124612.	8.2	50
1846	Cobalt phosphate hydroxide loaded g-C3N4 photocatalysts and its hydrogen production activity. International Journal of Hydrogen Energy, 2020, 45, 7562-7573.	7.1	38
1847	Enhanced adsorption and photocatalytic activities of ultrathin graphitic carbon nitride nanosheets: Kinetics and mechanism. Chemical Engineering Journal, 2020, 381, 122760.	12.7	87
1848	Reliable and selective lead-ion sensor of sulfur-doped graphitic carbon nitride nanoflakes. Applied Surface Science, 2020, 506, 144672.	6.1	37
1849	Co-modification of polydopamine and KH560 on g-C3N4 nanosheets for enhancing the corrosion protection property of waterborne epoxy coating. Reactive and Functional Polymers, 2020, 146, 104405.	4.1	62

#	Article	IF	CITATIONS
1850	Graphitic carbon nitride derivative with large mesopores as sorbent for solid-phase microextraction of polycyclic aromatic hydrocarbons. Talanta, 2020, 209, 120541.	5.5	28
1851	Ultrathin g-C3N4 nanosheet with hierarchical pores and desirable energy band for highly efficient H2O2 production. Applied Catalysis B: Environmental, 2020, 267, 118396.	20.2	183
1852	Visible-light photodegradation of sulfamethoxazole (SMX) over Ag-P-codoped g-C3N4 (Ag-P@UCN) photocatalyst in water. Chemical Engineering Journal, 2020, 384, 123383.	12.7	94
1853	Preparation characterization and non-isothermal decomposition kinetics of different carbon nitride sheets. Egyptian Journal of Petroleum, 2020, 29, 21-29.	2.6	27
1854	Constructing mesoporous g-C3N4/ZnO nanosheets catalyst for enhanced visible-light driven photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 388, 112169.	3.9	52
1855	Introducing graphitic carbon nitride nanosheets as supersandwich-type assembly on porous electrode for ultrasensitive electrochemiluminescence immunosensing. Analytica Chimica Acta, 2020, 1097, 62-70.	5.4	18
1856	2D/1D graphitic carbon nitride/titanate nanotubes heterostructure for efficient photocatalysis of sulfamethazine under solar light: Catalytic "hot spots―at the rutile–anatase–titanate interfaces. Applied Catalysis B: Environmental, 2020, 263, 118357.	20.2	211
1857	Construction of 3D hierarchical microarchitectures of Z-scheme UiO-66-(COOH)2/ZnIn2S4 hybrid decorated with non-noble MoS2 cocatalyst: A highly efficient photocatalyst for hydrogen evolution and Cr(VI) reduction. Chemical Engineering Journal, 2020, 384, 123352.	12.7	137
1858	Reduced segregation and integration of structural brain network associated with sympathetic and dorsal penile nerve activity in anejaculation patients: a graphâ€based connectome study. Andrology, 2020, 8, 392-399.	3.5	9
1859	The modulation of g-C3N4 energy band structure by excitons capture and dissociation. Materials Research Bulletin, 2020, 122, 110685.	5.2	28
1860	Visible light activated excellent NO2 sensing based on 2D/2D ZnO/g-C3N4 heterojunction composites. Sensors and Actuators B: Chemical, 2020, 304, 127287.	7.8	89
1861	In Situ Fabrication of Robust Cocatalystâ€Free CdS/gâ€C ₃ N ₄ 2D–2D Stepâ€6cheme Heterojunctions for Highly Active H ₂ Evolution. Solar Rrl, 2020, 4, 1900423.	5.8	176
1862	Enhanced photocatalytic hydrogen evolution by carbon-doped carbon nitride synthesized via the assistance of cellulose. Applied Surface Science, 2020, 504, 144454.	6.1	17
1863	Mesoporous SiO2-derived g-C3N4@CdS core-shell heteronanostructure for efficient and stable photocatalytic H2 production. Ceramics International, 2020, 46, 2384-2391.	4.8	16
1864	H2O2-free photo-Fenton degradation of organic pollutants on thermally exfoliated g-C3N4. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124190.	4.7	37
1865	An innovative microwave-assisted method for the synthesis of mesoporous two dimensional g-C3N4: A revisited insight into a potential electrode material for supercapacitors. Microporous and Mesoporous Materials, 2020, 294, 109853.	4.4	19
1866	Supramolecule self-assembly synthesis of condensed C-TA/g-C3N4 composites for promoting charge transfer and photocatalytic H2 evolution. Applied Surface Science, 2020, 504, 144354.	6.1	21
1867	Chemical Vapor Deposition of Boronâ€Incorporated Graphitic Carbon Nitride Film for Carbonâ€Based Wide Bandgap Semiconductor Materials. Physica Status Solidi (B): Basic Research, 2020, 257, 1900375.	1.5	11

#	Article	IF	CITATIONS
1868	A novel strategy to construct a visible-light-driven Z-scheme (ZnAl-LDH with active phase/g-C3N4) heterojunction catalyst via polydopamine bridge (a similar "bridge" structure). Journal of Hazardous Materials, 2020, 386, 121650.	12.4	77
1869	Produktion von Wasserstoffperoxid durch photokatalytische Prozesse. Angewandte Chemie, 2020, 132, 17508-17529.	2.0	29
1870	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. Applied Catalysis B: Environmental, 2020, 262, 118251.	20.2	89
1871	Insights on the impact of doping levels in oxygen-doped gC3N4 and its effects on photocatalytic activity. Applied Surface Science, 2020, 504, 144427.	6.1	69
1872	2D Materials in Light: Excited tate Dynamics and Applications. Chemical Record, 2020, 20, 413-428.	5.8	10
1873	Robust and recyclable macroscopic g-C3N4/cellulose hybrid photocatalysts with enhanced visible light photocatalytic activity. Applied Surface Science, 2020, 504, 144179.	6.1	29
1874	Carbon nitride nanotube for ion transport based photo-rechargeable electric energy storage. Nano Energy, 2020, 67, 104230.	16.0	48
1875	Influence of Stone-Wales defects on the mechanical properties of graphene-like polyaniline (PANI) C3N nanosheets. Diamond and Related Materials, 2020, 101, 107555.	3.9	16
1876	An Electrochemiluminesence Chiral Sensor for Propranolol Enantiomers Based on Functionalized Graphiteâ€like Carbon Nitride Nanosheets. Electroanalysis, 2020, 32, 185-190.	2.9	10
1877	Synergistic effect of quantum confinement and site-selective doping in polymeric carbon nitride towards overall water splitting. Applied Catalysis B: Environmental, 2020, 261, 118211.	20.2	64
1878	Probing the active sites of site-specific nitrogen doping in metal-free graphdiyne for electrochemical oxygen reduction reactions. Science Bulletin, 2020, 65, 45-54.	9.0	52
1879	Graphene-Based Heterogeneous Catalysis: Role of Graphene. Catalysts, 2020, 10, 53.	3.5	83
1880	Carbon microspheres work as an electron bridge for degrading high concentration MB in CoFe2O4@carbon microsphere/g-C3N4 with a hierarchical sandwich-structure. Applied Surface Science, 2020, 507, 145167.	6.1	29
1881	PANI-g-C3N4 grafted on cobalt acetate as an efficient precursor for synthesis of N-doped carbon contains cobalt composite: A versatile catalyst for reduction of nitro compounds. Diamond and Related Materials, 2020, 103, 107695.	3.9	14
1882	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C ₃ N ₄) nanolayers. New Journal of Chemistry, 2020, 44, 2644-2651.	2.8	29
1883	Facile preparation of nanosized MoP as cocatalyst coupled with g-C3N4 by surface bonding state for enhanced photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2020, 265, 118620.	20.2	153
1884	Rapid polymerization synthesizing high-crystalline g-C3N4 towards boosting solar photocatalytic H2 generation. International Journal of Hydrogen Energy, 2020, 45, 6425-6436.	7.1	104
1885	Immobilization of AgCl@TiO2 on the woven wire mesh: Sunlight-responsive environmental photocatalyst with high durability. Solar Energy, 2020, 196, 653-662.	6.1	36

#	Article	IF	Citations
1886	Engineering the excited state of graphitic carbon nitride nanostructures by covalently bonding with graphene quantum dots. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	13
1887	Carboxyl functionalized graphite carbon nitride for remarkably enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 266, 118590.	20.2	60
1888	Stable Ag2O/g-C3N4 p-n heterojunction photocatalysts for efficient inactivation of harmful algae under visible light. Applied Catalysis B: Environmental, 2020, 265, 118610.	20.2	128
1889	Surface amorphous carbon doping of carbon nitride for efficient acceleration of electron transfer to boost photocatalytic activities. Applied Surface Science, 2020, 507, 145145.	6.1	19
1890	Band structure engineering of polymeric carbon nitride with oxygen/carbon codoping for efficient charge separation and photocatalytic performance. Journal of Colloid and Interface Science, 2020, 564, 333-343.	9.4	26
1891	Synthesis, characterization and activity of doped graphitic carbon nitride materials towards photocatalytic oxidation of volatile organic pollutants emitted from 3D printer. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112355.	3.9	22
1892	Photocatalytic Dinitrogen Reduction with Water on Boron-Doped Carbon Nitride Loaded with Nickel Phosphide Particles. Langmuir, 2020, 36, 734-741.	3.5	27
1893	Conjugated polymers for visible-light-driven photocatalysis. Energy and Environmental Science, 2020, 13, 24-52.	30.8	452
1894	Graphitic carbon nitride and polymers: a mutual combination for advanced properties. Materials Horizons, 2020, 7, 762-786.	12.2	130
1895	Review—Recent Advances in Nanostructured Graphitic Carbon Nitride as a Sensing Material for Heavy Metal Ions. Journal of the Electrochemical Society, 2020, 167, 037519.	2.9	57
1896	Construction of DyVO4/nitrogen deficient g-C3N4 composite for enhanced visible-light photocatalytic activity for tetracycline degradation. Materials Research Bulletin, 2020, 124, 110766.	5.2	50
1897	Hierarchical <i>Z</i> -scheme g-C ₃ N ₄ /Au/ZnIn ₂ S ₄ photocatalyst for highly enhanced visible-light photocatalytic nitric oxide removal and carbon dioxide conversion. Environmental Science: Nano, 2020, 7, 676-687.	4.3	79
1898	Boosting visible-light driven solar-fuel production over g-C3N4/tetra(4-carboxyphenyl)porphyrin iron(III) chloride hybrid photocatalyst via incorporation with carbon dots. Applied Catalysis B: Environmental, 2020, 265, 118595.	20.2	31
1899	Visible-light-induced nitrogen photofixation ability of g-C3N4 nanosheets decorated with MgO nanoparticles. Journal of Industrial and Engineering Chemistry, 2020, 84, 185-195.	5.8	105
1900	Phosphorus-doped porous carbon nitride for efficient sole production of hydrogen peroxide <i>via</i> photocatalytic water splitting with a two-channel pathway. Journal of Materials Chemistry A, 2020, 8, 3701-3707.	10.3	89
1901	Revolution of Perovskite. Materials Horizons, 2020, , .	0.6	10
1902	Facile one-pot synthesis of mesoporous g-C ₃ N ₄ nanosheets with simultaneous iodine doping and N-vacancies for efficient visible-light-driven H ₂ evolution performance. Catalysis Science and Technology, 2020, 10, 549-559.	4.1	39
1903	Heterogeneous visible-light-induced Meerwein hydration reaction of alkenes in water using mpg-C ₃ N ₄ as a recyclable photocatalyst. Green Chemistry, 2020, 22, 411-416.	9.0	46

#	Article	IF	CITATIONS
1904	Hollow porous prismatic graphitic carbon nitride with nitrogen vacancies and oxygen doping: a high-performance visible light-driven catalyst for nitrogen fixation. Nanoscale, 2020, 12, 1833-1841.	5.6	79
1905	Synergistic effect of a noble metal free Ni(OH) ₂ co-catalyst and a ternary ZnIn ₂ S ₄ /g-C ₃ N ₄ heterojunction for enhanced visible light photocatalytic hydrogen evolution. Sustainable Energy and Fuels, 2020, 4, 750-759.	4.9	34
1906	<i>In situ</i> decorated Ni ₂ P nanocrystal co-catalysts on g-C ₃ N ₄ for efficient and stable photocatalytic hydrogen evolution <i>via</i> a facile co-heating method. Journal of Materials Chemistry A, 2020, 8, 2995-3004.	10.3	68
1907	Graphitic carbon nitride doped SnO ₂ enabling efficient perovskite solar cells with PCEs exceeding 22%. Journal of Materials Chemistry A, 2020, 8, 2644-2653.	10.3	98
1908	Facile synthesis of mesoporous graphitic carbon nitride/SnO2 nanocomposite photocatalysts for the enhanced photodegradation of Rhodamine B. Reaction Kinetics, Mechanisms and Catalysis, 2020, 129, 535-550.	1.7	8
1909	Sulfonic acid-functionalized graphitic carbon nitride composite: a novel and reusable catalyst for the one-pot synthesis of polysubstituted pyridine in water under sonication. Journal of the Iranian Chemical Society, 2020, 17, 901-910.	2.2	25
1910	An unconventional DCOx favored Co/N-C catalyst for efficient conversion of fatty acids and esters to liquid alkanes. Applied Catalysis A: General, 2020, 591, 117385.	4.3	8
1911	Efficient photocatalytic hydrogen evolution by engineering amino groups into ultrathin 2D graphitic carbon nitride. Applied Surface Science, 2020, 507, 145085.	6.1	17
1912	P, K co-doped porous g-C3N4 with enhanced photocatalytic activity synthesized in vapor and self-producing NH3 atmosphere. Applied Surface Science, 2020, 507, 145086.	6.1	25
1913	Tuning layered Fe-doped g-C3N4 structure through pyrolysis for enhanced Fenton and photo-Fenton activities. Carbon, 2020, 159, 461-470.	10.3	111
1914	Enhanced photocatalytic hydrogen evolution over TiO2/g-C3N4 2D heterojunction coupled with plasmon Ag nanoparticles. Ceramics International, 2020, 46, 5725-5732.	4.8	34
1915	Enhanced n→ï€* electron transition of porous P-doped g-C3N4 nanosheets for improved photocatalytic H2 evolution performance. Ceramics International, 2020, 46, 8444-8451.	4.8	61
1916	Novel ternary p-ZnIn2S4/rGO/n-g-C3N4 Z-scheme nanocatalyst with enhanced antibiotic degradation in a dark self-biased fuel cell. Ceramics International, 2020, 46, 9567-9574.	4.8	24
1917	Band-gap engineering of layered covalent organic frameworks via controllable exfoliation for enhanced visible-light-driven hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 2689-2698.	7.1	32
1918	SrSnO3/g-C3N4 and sunlight: Photocatalytic activity and toxicity of degradation byproducts. Journal of Environmental Chemical Engineering, 2020, 8, 103633.	6.7	18
1919	Graphitic carbon nitride homojunction films for photocathodic protection of 316 stainless steel and Q235 carbon steel. Journal of Electroanalytical Chemistry, 2020, 857, 113703.	3.8	24
1920	Distorted polymeric carbon nitride via carriers transfer bridges with superior photocatalytic activity for organic pollutants oxidation and hydrogen production under visible light. Journal of Hazardous Materials, 2020, 386, 121947.	12.4	95
1921	Peroxymonosulfate-assisted photocatalytic degradation of sulfadiazine using self-assembled multi-layered CoAl-LDH/g-C3N4 heterostructures: Performance, mechanism and eco-toxicity evaluation. Journal of Water Process Engineering, 2020, 33, 101084.	5.6	77

#	Article	IF	CITATIONS
1922	Er3+-doping induced formation of orthorhombic/monoclinic Bi5O7I heterostructure with enhanced visible-light photocatalytic activity for removal of contaminants. Materials Research Bulletin, 2020, 123, 110701.	5.2	24
1923	DFT study of interaction between HCHO molecule and tri-s-triazine g-C3N4 surface. Molecular Catalysis, 2020, 483, 110718.	2.0	5
1924	Synthesis of Pt–Rare Earth Metal Nanoalloys. Journal of the American Chemical Society, 2020, 142, 953-961.	13.7	74
1925	Surface Engineering of g ₃ N ₄ by Stacked BiOBr Sheets Rich in Oxygen Vacancies for Boosting Photocatalytic Performance. Angewandte Chemie, 2020, 132, 4549-4554.	2.0	27
1926	Surface Engineering of g ₃ N ₄ by Stacked BiOBr Sheets Rich in Oxygen Vacancies for Boosting Photocatalytic Performance. Angewandte Chemie - International Edition, 2020, 59, 4519-4524.	13.8	271
1927	Apparent Potential Difference Boosting Directional Electron Transfer for Full Solar Spectrumâ€Irradiated Catalytic H ₂ Evolution. Advanced Functional Materials, 2020, 30, 1908797.	14.9	64
1928	Nitrogen photofixation ability of g-C3N4 nanosheets/Bi2MoO6 heterojunction photocatalyst under visible-light illumination. Journal of Colloid and Interface Science, 2020, 563, 81-91.	9.4	166
1929	Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. Chemical Engineering Journal, 2020, 391, 123496.	12.7	308
1930	Efficiency and durability of g-C3N4-based coatings applied on mortar under peeling and washing trials. Construction and Building Materials, 2020, 234, 117438.	7.2	5
1931	Platinum nanoparticles decorated and titanium incorporated with NH2-UiO-66 for photocatalytic hydrogen production. Reaction Kinetics, Mechanisms and Catalysis, 2020, 129, 505-518.	1.7	7
1932	Enhanced simulated sunlight photocatalytic reduction of an aqueous hexavalent chromium over hydroxyl-modified graphitic carbon nitride. Applied Surface Science, 2020, 506, 144181.	6.1	31
1933	In2O3/boron doped g-C3N4 heterojunction catalysts with remarkably enhanced visible-light photocatalytic efficiencies. Applied Surface Science, 2020, 504, 144241.	6.1	38
1934	Highly efficient conversion of the nitroarenes to amines at the interface of a ternary hybrid containing silver nanoparticles doped reduced graphene oxide/ graphitic carbon nitride under visible light. Journal of Hazardous Materials, 2020, 387, 121700.	12.4	36
1935	Hybrid 0D/2D Ni2P quantum dot loaded TiO2(B) nanosheet photothermal catalysts for enhanced hydrogen evolution. Applied Surface Science, 2020, 505, 144099.	6.1	47
1936	Graphitic Carbon Nitrideâ€Based Lowâ€Dimensional Heterostructures for Photocatalytic Applications. Solar Rrl, 2020, 4, 1900435.	5.8	65
1937	Adsorption of iron(II, III) cations on pristine heptazine and triazine polymeric carbon nitride quantum dots of buckled and planar structures: theoretical insights. Adsorption, 2020, 26, 429-442.	3.0	32
1938	Photocatalysis: an overview of recent developments and technological advancements. Science China Chemistry, 2020, 63, 149-181.	8.2	107
1939	Universal Approach for Electronically Tuned Transition-Metal-Doped Graphitic Carbon Nitride as a Conductive Electrode Material for Highly Efficient Oxygen Reduction Reaction. Inorganic Chemistry, 2020, 59, 1332-1339.	4.0	41
#	Δρτιςι ε	IF	CITATIONS
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 1940	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. Catalysis Science and Technology, 2020, 10, 529-535.	4.1	13
1941	Recent developments in carbon nitride based films for photoelectrochemical water splitting. Sustainable Energy and Fuels, 2020, 4, 485-503.	4.9	68
1942	A hierarchical carbon nitride tube with oxygen doping and carbon defects promotes solar-to-hydrogen conversion. Journal of Materials Chemistry A, 2020, 8, 3160-3167.	10.3	59
1943	Direct Z-scheme ZnIn2S4/LaNiO3 nanohybrid with enhanced photocatalytic performance for H2 evolution. International Journal of Hydrogen Energy, 2020, 45, 4113-4121.	7.1	75
1944	An instant, biocompatible and biodegradable high-performance graphitic carbon nitride. Journal of Colloid and Interface Science, 2020, 563, 336-346.	9.4	20
1945	Heterogeneous Carbon Nitrides Photocatalysis Multicomponent Hydrosulfonylation of Alkynes To Access I²-Keto Sulfones with the Insertion of Sulfur Dioxide in Aerobic Aqueous Medium. Organic Letters, 2020, 22, 670-674.	4.6	63
1946	One step synthesis of efficient photocatalysts by TCAP doped g-C ₃ N ₄ for enhanced visible-light photocatalytic activity. New Journal of Chemistry, 2020, 44, 1127-1137.	2.8	9
1947	Nitrogen vacancy mediated exciton dissociation in carbon nitride nanosheets: Enhanced hydroxyl radicals generation for efficient photocatalytic degradation of organic pollutants. Journal of Hazardous Materials, 2020, 387, 122023.	12.4	60
1948	Magnetically responsive SnFe2O4/g-C3N4 hybrid photocatalysts with remarkable visible-light-induced performance for degradation of environmentally hazardous substances and sustainable hydrogen production. Applied Surface Science, 2020, 506, 144939.	6.1	32
1949	BaWO4/g-C3N4 heterostructure with excellent bifunctional photocatalytic performance. Chemical Engineering Journal, 2020, 385, 123833.	12.7	60
1950	New Insights into the Generation of Singlet Oxygen in the Metal-Free Peroxymonosulfate Activation Process: Important Role of Electron-Deficient Carbon Atoms. Environmental Science & Technology, 2020, 54, 1232-1241.	10.0	400
1951	Ferrite Materials for Photoassisted Environmental and Solar Fuels Applications. Topics in Current Chemistry, 2020, 378, 6.	5.8	39
1952	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. Advanced Materials, 2020, 32, e1904717.	21.0	213
1953	Noble Metal Free, Visible Light Driven Photocatalysis Using TiO 2 Nanotube Arrays Sensitized by Pâ€Doped C 3 N 4 Quantum Dots. Advanced Optical Materials, 2020, 8, 1901275.	7.3	48
1954	Fabrication and Photodegradation Application of Isopropanol-Functionalized Poly (Triazine Imide). Journal of Electronic Materials, 2020, 49, 1518-1526.	2.2	3
1955	Ultrafast plasma immersion strategy for rational modulation of oxygen-containing and amino groups in graphitic carbon nitride. Carbon, 2020, 159, 51-64.	10.3	43
1956	Structurally modified graphitic carbon nitride with highly photocatalytic activity in the presence of visible light. Catalysis Today, 2020, 352, 47-53.	4.4	28
1957	Sunlight active g-C3N4-based Mn+ (M Cu, Ni, Zn, Mn) – promoted catalysts: Sharing of nitrogen atoms as a door for optimizing photo-activity. Molecular Catalysis, 2020, 484, 110725.	2.0	2

#	Article	IF	CITATIONS
1958	Preparation of choline sulfate ionic liquid supported on porous graphitic carbon nitride nanosheets by simple surface modification for enhanced catalytic properties. Journal of Molecular Liquids, 2020, 300, 112263.	4.9	27
1959	Graphitic Carbon Nitride Decorated with Cu2O Nanoparticles for the Visible Light Activated Synthesis of Ynones, Aminoindolizines, and Pyrrolo [1, 2-a] Quinoline. ACS Applied Nano Materials, 2020, 3, 1191-1202.	5.0	19
1960	In-situ intercalation of MoO3-x in g-C3N4 for the enhancement of photocatalytic and antibacterial activities. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112297.	3.9	36
1961	In situ hydrothermal fabrication of visible light-driven g-C3N4/SrTiO3 composite for photocatalytic degradation of TC. Environmental Science and Pollution Research, 2020, 27, 5788-5796.	5.3	20
1962	Ternary g ₃ N ₄ /ZnNCN@ZIFâ€8 Hybrid Photocatalysts with Robust Interfacial Interactions and Enhanced CO ₂ Reduction Performance. Solar Rrl, 2020, 4, 1900440.	5.8	49
1963	Facile preparation and high photocatalytic activity of crystalline graphitic carbon nitride in hydrogen evolution from electron donor solutions under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112295.	3.9	20
1964	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 884-892.	6.7	30
1965	Energy Band Engineering of Polymeric Carbon Nitride with Indium Doping for High Enhancement in Charge Separation and Photocatalytic Performance. ACS Applied Energy Materials, 2020, 3, 377-386.	5.1	26
1966	2D/2D WO3·H2O/g-C3N4 heterostructured assemblies for enhanced photocatalytic water decontamination via strong interfacial contact. Journal of Materials Science, 2020, 55, 4238-4250.	3.7	17
1967	Recent developments and challenges in practical application of visible–light–driven TiO2–based heterojunctions for PPCP degradation: A critical review. Water Research, 2020, 170, 115356.	11.3	185
1968	Colorimetric Assay Using Mesoporous Fe-Doped Graphitic Carbon Nitride as a Peroxidase Mimetic for the Determination of Hydrogen Peroxide and Glucose. ACS Applied Bio Materials, 2020, 3, 59-67.	4.6	25
1969	Two-dimensional nanomaterials beyond graphene for antibacterial applications: current progress and future perspectives. Theranostics, 2020, 10, 757-781.	10.0	152
1970	Self-cleaning and antimicrobial photo-induced properties under indoor lighting irradiation of chitosan films containing Melon/TiO2 composites. Applied Surface Science, 2020, 508, 144895.	6.1	13
1971	Ag3PO4/g-C3N4 nanocomposites for photocatalytic degradating gas phase formaldehyde at continuous flow under 420Anm LED irradiation. Chemosphere, 2020, 244, 125462.	8.2	26
1972	Photodegradation performances and transformation mechanism of sulfamethoxazole with CeO2/CN heterojunction as photocatalyst. Separation and Purification Technology, 2020, 237, 116329.	7.9	45
1973	Metal-organic framework-based materials for hybrid supercapacitor application. Coordination Chemistry Reviews, 2020, 404, 213093.	18.8	318
1974	One-step microwave synthesis of covalently bonded O C3N4/C60 with enhanced photocatalytic properties. Materials Research Bulletin, 2020, 122, 110668.	5.2	9
1975	K+-induced crystallization of polymeric carbon nitride to boost its photocatalytic activity for H2 evolution and hydrogenation of alkenes. Applied Catalysis B: Environmental, 2020, 268, 118457.	20.2	67

#	Article	IF	CITATIONS
1976	Nano-confined g-C3N4 in mesoporous SiO2 with improved quantum size effect and tunable structure for photocatalytic tetracycline antibiotic degradation. Journal of Alloys and Compounds, 2020, 819, 153064.	5.5	34
1977	Superior uniform carbon nanofibers@g-C3N4 core-shell nanostructures embedded by Au nanoparticles for high-efficiency photocatalyst. Journal of Hazardous Materials, 2020, 388, 121759.	12.4	24
1978	Precursorâ€Engineering Coupled Microwave Moltenâ€Salt Strategy Enhances Photocatalytic Hydrogen Evolution Performance of g ₃ N ₄ Nanostructures. ChemSusChem, 2020, 13, 827-837.	6.8	54
1979	The embedded CuInS2 into hollow-concave carbon nitride for photocatalytic H2O splitting into H2 with S-scheme principle. Chinese Journal of Catalysis, 2020, 41, 122-130.	14.0	132
1980	Mechanistic insight of the formation of visible-light responsive nanosheet graphitic carbon nitride embedded polyacrylonitrile nanofibres for wastewater treatment. Journal of Water Process Engineering, 2020, 33, 101015.	5.6	23
1981	Recent Advances in Photocatalysis over Metal–Organic Frameworksâ€Based Materials. Solar Rrl, 2020, 4, 1900438.	5.8	22
1982	In situ no-slot joint integration of half-metallic C(CN)3 cocatalyst into g-C3N4 scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO2 into CO. Applied Catalysis B: Environmental, 2020, 264, 118470.	20.2	41
1983	Enhanced photocatalytic performance of the MoS2/g-C3N4 heterojunction composite prepared by vacuum freeze drying method. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112260.	3.9	23
1984	A dual-emission fluorescence probe for simultaneous quantification of CNâ^ and Cr2O72â^ ions based on modified g-C3N4. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 389, 112261.	3.9	15
1985	Synergetic effect of g-C3N4/ZnO binary nanocomposites heterojunction on improving charge carrier separation through 2D/1D nanostructures for effective photocatalytic activity under the sunlight irradiation. Separation and Purification Technology, 2020, 244, 116356.	7.9	45
1986	High yield post-thermal treatment of bulk graphitic carbon nitride with tunable band structure for enhanced deNO _x photocatalysis. Nanotechnology, 2020, 31, 114001.	2.6	13
1987	Unique Layerâ€Dopingâ€Induced Regulation of Charge Behavior in Metalâ€Free Carbon Nitride Photoanodes for Enhanced Performance. ChemSusChem, 2020, 13, 328-333.	6.8	16
1988	An oxygen-tolerant visible light induced free radical polymerization using mesoporous graphitic carbon nitride. European Polymer Journal, 2020, 122, 109410.	5.4	24
1989	Waste-derived Materials: Opportunities in Photocatalysis. Topics in Current Chemistry, 2020, 378, 3.	5.8	18
1990	Nano-layer based 1T-rich MoS2/g-C3N4 co-catalyst system for enhanced photocatalytic and photoelectrochemical activity. Applied Catalysis B: Environmental, 2020, 268, 118466.	20.2	112
1991	A latest overview on photocatalytic application of g-C3N4 based nanostructured materials for hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 337-379.	7.1	175
1992	Novel application of a Z-scheme photocatalyst of Ag3PO4@g-C3N4 for photocatalytic fuel cells. Journal of Environmental Management, 2020, 254, 109738.	7.8	42
1993	Synthesis of carbon nitride nanosheets with tunable size by hydrothermal method for tetracycline degradation. Materials Letters, 2020, 264, 127005.	2.6	8

#	Article	IF	CITATIONS
1994	Efficient removal of parabens from real water matrices by a metal-free carbon nitride photocatalyst. Science of the Total Environment, 2020, 716, 135346.	8.0	37
1995	g-C ₃ N ₄ /Pt/BiVO ₄ nanocomposites for highly efficient visible-light photocatalytic removal of contaminants and hydrogen generation. Nanotechnology, 2020, 31, 125706.	2.6	32
1996	Recent advances in carbon nanomaterial-based adsorbents for water purification. Coordination Chemistry Reviews, 2020, 405, 213111.	18.8	329
1997	In Situ Construction of a MgSn(OH)6 Perovskite/SnO2 Type-II Heterojunction: A Highly Efficient Photocatalyst towards Photodegradation of Tetracycline. Nanomaterials, 2020, 10, 53.	4.1	10
1998	Fabrication of novel Ag/g 3 N 4 electrode for resveratrol sensors. Journal of the Chinese Chemical Society, 2020, 67, 1195-1200.	1.4	5
1999	Noble metal deposited graphitic carbon nitride based heterojunction photocatalysts. Applied Surface Science, 2020, 508, 145142.	6.1	95
2000	Eco-friendly polymer nanocomposite hydrogel enhanced by cellulose nanocrystal and graphitic-like carbon nitride nanosheet. Chemical Engineering Journal, 2020, 386, 124021.	12.7	58
2001	Improving Electrochemical Hydrogen Evolution of Ag@CN Nanocomposites by Synergistic Effects with α-Rich Proteins. ACS Applied Materials & Interfaces, 2020, 12, 2207-2215.	8.0	20
2002	Efficient Selective Sorption of Cationic Organic Pollutant from Water and Its Photocatalytic Degradation by AlVO ₄ /g-C ₃ N ₄ Nanocomposite. Journal of Nanoscience and Nanotechnology, 2020, 20, 2179-2194.	0.9	15
2003	Doping of Graphitic Carbon Nitride with Non-Metal Elements and Its Applications in Photocatalysis. Catalysts, 2020, 10, 1119.	3.5	89
2004	Angle-Resolved Photoemission Study on the Band Structure of Organic Single Crystals. Crystals, 2020, 10, 773.	2.2	5
2005	g-C3N4/carbon dot-based nanocomposites serve as efficacious photocatalysts for environmental purification and energy generation: A review. Journal of Cleaner Production, 2020, 276, 124319.	9.3	379
2006	Mesoporous magnetic g-C3N4 nanocomposites for photocatalytic environmental remediation under visible light. Ecotoxicology and Environmental Safety, 2020, 205, 111147.	6.0	10
2007	CoFe2O4 decorated g-C3N4 nanosheets: New insights into superoxide anion mediated photomineralization of methylene blue. Journal of Environmental Chemical Engineering, 2020, 8, 104556.	6.7	30
2008	Facile synthesis of difunctional NiV LDH@ZIF-67 p-n junction: Serve as prominent photocatalyst for hydrogen evolution and supercapacitor electrode as well. Renewable Energy, 2020, 162, 535-549.	8.9	83
2009	Theoretical Calculation of Hydrogen Generation and Delivery via Photocatalytic Water Splitting in Boron–Carbon–Nitride Nanotube/Metal Cluster Hybrid. ACS Applied Materials & Interfaces, 2020, 12, 48684-48690.	8.0	6
2010	g-C ₃ N ₄ /TiO ₂ composite microspheres: <i>in situ</i> growth and high visible light catalytic activity. CrystEngComm, 2020, 22, 7104-7112.	2.6	15
2011	Interfaces of graphitic carbon nitride-based composite photocatalysts. Inorganic Chemistry Frontiers, 2020, 7, 4754-4793.	6.0	41

#	Article	IF	CITATIONS
2012	Rational design of a highly mesoporous Fe–N–C/Fe ₃ C/C–S–C nanohybrid with dense active sites for superb electrocatalysis of oxygen reduction. Journal of Materials Chemistry A, 2020, 8, 23436-23454.	10.3	33
2013	Surface defect-rich g-C ₃ N ₄ /TiO ₂ Z-scheme heterojunction for efficient photocatalytic antibiotic removal: rational regulation of free radicals and photocatalytic mechanism. Catalysis Science and Technology, 2020, 10, 8295-8304.	4.1	37
2015	Facile Synthesis of γâ€Ketonitriles in Water via C(sp ²)–H Activation of Aromatic Aldehydes over Cu@gâ€C ₃ N ₄ under Visibleâ€Light. European Journal of Organic Chemistry, 2020, 2020, 5841-5846.	2.4	6
2016	Boosting the visible-light photoelectrochemical performance of C3N4 by coupling with TiO2 and carbon nanotubes: An organic/inorganic hybrid photocatalyst nanocomposite for photoelectrochemical water spitting. International Journal of Hydrogen Energy, 2020, 45, 30091-30100.	7.1	18
2017	Enhancing photocatalysis of NO gas degradation over g-C3N4 modified α-Bi2O3 microrods composites under visible light. Materials Letters, 2020, 281, 128637.	2.6	19
2018	Graphitic carbon nitride-based catalysts and their applications: A review. Nano Structures Nano Objects, 2020, 24, 100577.	3.5	66
2019	Luminescent Single-Atom Eu-Coordinated Graphitic Carbon Nitride Nanosheets for Selective Sensing of Acetone and Cyclohexane. ACS Applied Nano Materials, 2020, 3, 10209-10217.	5.0	19
2020	Conjugated Polymer Nanomaterials for Solar Water Splitting. Advanced Energy Materials, 2020, 10, 2002474.	19.5	40
2021	Photocatalysisâ€Assisted Co ₃ O ₄ /gâ€C ₃ N ₄ p–n Junction Allâ€Solidâ€State Supercapacitors: A Bridge between Energy Storage and Photocatalysis. Advanced Science, 2020, 7, 2001939.	11.2	83
2022	Dual Z-Scheme CuO-ZnO@Graphitic Carbon Nitride Ternary Nanocomposite with Improved Visible Light-Induced Catalytic Activity for Ultrasound-Assisted Photocatalytic Desulfurization. Energy & Fuels, 2020, 34, 13588-13605.	5.1	40
2023	A two-dimensional h-BN/C ₂ N heterostructure as a promising metal-free photocatalyst for overall water-splitting. Physical Chemistry Chemical Physics, 2020, 22, 24446-24454.	2.8	41
2024	Modification of Graphitic Carbon Nitride with Hydrogen Peroxide. Nanomaterials, 2020, 10, 1747.	4.1	3
2025	Photo-assisted splitting of water into hydrogen using visible-light activated silver doped g-C3N4 & CNTs hybrids. International Journal of Hydrogen Energy, 2020, 45, 31574-31584.	7.1	25
2026	Multidimensional (0D-3D) functional nanocarbon: Promising material to strengthen the photocatalytic activity of graphitic carbon nitride. Green Energy and Environment, 2021, 6, 823-845.	8.7	40
2027	Rational one-step synthesis of cobalt clusters embedded-graphitic carbon nitrides for the efficient photocatalytic CO2 reduction under ambient conditions. Journal of Catalysis, 2020, 392, 88-96.	6.2	25
2028	Light-weight g-C3N4/carbon hybrid cages as conductive and polar hosts to construct core-shell structured S@g-C3N4/carbon spheres with enhanced Li ion-storage performance. Electrochimica Acta, 2020, 363, 137217.	5.2	11
2029	Recent advances of doped graphite carbon nitride for photocatalytic reduction of CO2: a review. Research on Chemical Intermediates, 2020, 46, 5133-5164.	2.7	39
2030	Wavelength dependent luminescence decay kinetics in â€~quantum-confined' g-C ₃ N ₄ nanosheets exhibiting high photocatalytic efficiency upon plasmonic coupling. Journal of Materials Chemistry A, 2020, 8, 20581-20592.	10.3	16

#	Article	IF	CITATIONS
2031	Visible light responsive BiPO ₄ /g-C ₃ N ₄ for enhanced photocatalysis of 2-4 dichlorophenol under solar irradiation. IOP Conference Series: Materials Science and Engineering, 2020, 917, 012007.	0.6	2
2032	Heterostructured Nitrogen and Sulfur co-doped Black TiO2/g-C3N4 Photocatalyst with Enhanced Photocatalytic Activity. Chemical Research in Chinese Universities, 2020, 36, 1045-1052.	2.6	17
2033	Integrating Z-scheme heterojunction of Co ₁ -C ₃ N ₄ @α-Fe ₂ O ₃ for efficient visible-light-driven photocatalytic CO ₂ reduction. Green Chemistry, 2020, 22, 7552-7559.	9.0	38
2034	Emerging Chemical Functionalization of g-C ₃ N ₄ : Covalent/Noncovalent Modifications and Applications. ACS Nano, 2020, 14, 12390-12469.	14.6	258
2035	Graphitic carbon nitride-based materials for photocatalytic reduction of U(<scp>vi</scp>). New Journal of Chemistry, 2020, 44, 19961-19976.	2.8	22
2036	Enhanced visible light photocatalytic activity of <scp>Clâ€Bi₂WO₆</scp> / <scp>g ₃N₄</scp> composite photocatalyst. Canadian Journal of Chemical Engineering, 2021, 99, 2014-2023.	1.7	4
2037	g ₃ N ₄ Derivative Artificial Organic/Inorganic Composite Solid Electrolyte Interphase Layer for Stable Lithium Metal Anode. Advanced Energy Materials, 2020, 10, 2002647.	19.5	123
2038	Modification of g ₃ N ₄ Photocatalyst with Flowerâ€like ReS ₂ for Highly Efficient Photocatalytic Hydrogen Evolution. ChemCatChem, 2020, 12, 6385-6392.	3.7	40
2039	Zâ€scheme 3 D g ₃ N ₄ /TiO _{2â^x} Heterojunctions with High Photocatalytic Efficiency. ChemistrySelect, 2020, 5, 11159-11169.	1.5	6
2040	g-C3N4-heme bound to amyloid β peptides: In-situ generation of the secondary co-reactant for dual-enhanced electrochemiluminescence assay of amyloid β detection. Electrochimica Acta, 2020, 361, 137096.	5.2	17
2041	Facile synthesis of graphitic carbon nitride/chitosan/Au nanocomposite: A catalyst for electrochemical hydrogen evolution. International Journal of Biological Macromolecules, 2020, 164, 3012-3024.	7.5	62
2042	Highly exfoliated g-C3N4 as turn OFF-ON (Ag+/CNâ^') optical sensor and the intermediate (g-C3N4@Ag) for catalytic hydrogenation. Journal of Environmental Chemical Engineering, 2020, 8, 104579.	6.7	10
2043	Photo- and electro-catalysis evolution of superior thin g-C3N4 nanosheets with their microstructure and Ni Fe oxide composite. Materials Characterization, 2020, 169, 110655.	4.4	8
2044	Exfoliation-induced exposure of active sites for g-C3N4/N-doped carbon dots heterojunction to improve hydrogen evolution activity. Molecular Catalysis, 2020, 497, 111223.	2.0	9
2045	Few Layer g-C ₃ N ₄ Dispersed Quaternary Phosphonium Ionic Liquid for Highly Efficient Catalytic Oxidative Desulfurization of Fuel. Energy & Fuels, 2020, 34, 12379-12387.	5.1	18
2046	Optimization of photocarrier dynamics and activity in phosphorene with intrinsic defects for nitrogen fixation. Journal of Materials Chemistry A, 2020, 8, 20570-20580.	10.3	26
2047	The g-C ₃ N ₄ Quantum Dot Decorated g-C ₃ N ₄ Sheet/Reduced Graphene Oxide Composite as Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2020, 167, 100534.	2.9	5
2048	Impact of Titanium Dioxide (TiO2) Modification on Its Application to Pollution Treatment—A Review. Catalysts, 2020, 10, 804.	3.5	133

#	Article	IF	CITATIONS
2049	Restacked melon as highly-efficient photocatalyst. Nano Energy, 2020, 77, 105124.	16.0	7
2050	Strong catalysis of silver-doped carbon nitride nanoparticles and their application to aptamer SERS and RRS coupled dual-mode detection of ultra-trace K+. Journal of Materials Chemistry C, 2020, 8, 11088-11101.	5.5	13
2051	Aerobic Oil-Phase Cyclic Magnetic Adsorption to Synthesize 1D Fe2O3@TiO2 Nanotube Composites for Enhanced Visible-Light Photocatalytic Degradation. Nanomaterials, 2020, 10, 1345.	4.1	15
2052	Construction of heterojunction g-C3N4/CoAl hydrotalcites for high-efficient Cr(VI) reduction under visible light. Applied Clay Science, 2020, 193, 105669.	5.2	29
2053	Constructing a Stable 2D Layered Ti ₃ C ₂ MXene Cocatalyst-Assisted TiO ₂ /g-C ₃ N ₄ /Ti ₃ C ₂ Heterojunction for Tailoring Photocatalytic Bireforming of Methane under Visible Light. Energy & Fuels, 2020, 34, 9810-9828.	5.1	84
2054	Transforming Photocatalytic g ₃ N ₄ /MoSe ₂ into a Direct Z‧cheme System via Boronâ€Doping: A Hybrid DFT Study. ChemSusChem, 2020, 13, 4985-4993.	6.8	33
2055	Templated transformation of g-C3N4 nanosheets into nitrogen-doped hollow carbon sphere with tunable nitrogen-doping properties for application in Li-ions batteries. Carbon, 2020, 168, 458-467.	10.3	57
2056	Reversible photochromism for the enhancement of carrier separation in Zn1-Cu S. Journal of Alloys and Compounds, 2020, 844, 155880.	5.5	4
2057	Degradation of Orange G and Trypan blue using Ag2C2O4/Ag/g-C3N4 composites as efficient photocatalyst under solar irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112755.	3.9	16
2058	Recent advances in bioelectronics chemistry. Chemical Society Reviews, 2020, 49, 7978-8035.	38.1	54
2059	Photocatalytic Activity of g-C3N4 in the Partial Oxidation of Benzyl Alcohol Under Visible Light. Theoretical and Experimental Chemistry, 2020, 56, 111-116.	0.8	9
2060	Garland-like intercalated carbon nitride prepared by an oxalic acid-mediated assembly strategy for highly-efficient visible-light-driven photoredox catalysis. Applied Catalysis B: Environmental, 2020, 278, 119342.	20.2	55
2061	Honeycomb-like g-C3N4/CeO2-x nanosheets obtained via one step hydrothermal-roasting for efficient and stable Cr(VI) photo-reduction. Chinese Chemical Letters, 2020, 31, 2747-2751.	9.0	19
2062	Visible-light-driven photocatalytic activity of ZnO/g-C3N4 heterojunction for the green synthesis of biologically interest small molecules of thiazolidinones. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 402, 112786.	3.9	52
2063	Recent development on BN-based photocatalysis: A review. Materials Science in Semiconductor Processing, 2020, 120, 105256.	4.0	36
2064	Insights into the photocatalytic mechanism of the C4N/MoS2 heterostructure: A first-principle study. Chinese Chemical Letters, 2020, 31, 2319-2324.	9.0	24
2065	Mo incorporated Ni nanosheet as high-efficiency co-catalyst for enhancing the photocatalytic hydrogen production of g-C3N4. International Journal of Hydrogen Energy, 2020, 45, 18912-18921.	7.1	25
2066	Optimizing the crystallization process of conjugated polymer photocatalysts to promote electron transfer and molecular oxygen activation. Journal of Catalysis, 2020, 389, 636-645.	6.2	51

#	Article	IF	CITATIONS
2067	Robust route to highly porous graphitic carbon nitride microtubes with preferred adsorption ability via rational design of one-dimension supramolecular precursors for efficient photocatalytic CO2 conversion. Nano Energy, 2020, 77, 105104.	16.0	71
2068	Recent advances in application of graphitic carbon nitride-based catalysts for degrading organic contaminants in water through advanced oxidation processes beyond photocatalysis: A critical review. Water Research, 2020, 184, 116200.	11.3	343
2069	Carbon-based materials for photo- and electrocatalytic synthesis of hydrogen peroxide. Nanoscale, 2020, 12, 16008-16027.	5.6	63
2070	Influence of different bismuth oxyhalides on the photocatalytic activity of graphitic carbon nitride: a comparative study under natural sunlight. Materials Advances, 2020, 1, 1262-1272.	5.4	40
2071	2D conductive metal-organic frameworks for electronics and spintronics. Science China Chemistry, 2020, 63, 1391-1401.	8.2	35
2072	InP quantum dots on g-C3N4 nanosheets to promote molecular oxygen activation under visible light. Chinese Chemical Letters, 2020, 31, 2689-2692.	9.0	20
2073	Photo-chemical property evolution of superior thin g-C3N4 nanosheets with their crystallinity and Pt deposition. International Journal of Hydrogen Energy, 2020, 45, 21523-21531.	7.1	35
2074	P―and Fâ€coâ€doped Carbon Nitride Nanocatalysts for Photocatalytic CO ₂ Reduction and Thermocatalytic Furanics Synthesis from Sugars. ChemSusChem, 2020, 13, 5231-5238.	6.8	52
2075	Modifying the bridging N atoms of polymeric carbon nitride to achieve highly enhanced photocatalytic hydrogen evolution. Applied Surface Science, 2020, 530, 147287.	6.1	11
2076	Ternary g-C3N4/NiOOH/Ag nanocomposite photocatalyst with efficient charges separation and high activity for H2 production. Fuel, 2020, 280, 118672.	6.4	12
2077	Building heterogeneous nanostructures for photocatalytic ammonia decomposition. Nanoscale Advances, 2020, 2, 3610-3623.	4.6	29
2078	Visible-light photocatalysis and charge carrier dynamics of elemental crystalline red phosphorus. Journal of Chemical Physics, 2020, 153, 024707.	3.0	13
2079	Enhanced Photocatalytic Performance of g-C ₃ N ₄ Decorated with MOF-Derived Hollow ZnS Polyhedrons. IOP Conference Series: Materials Science and Engineering, 2020, 774, 012039.	0.6	2
2080	Graphitic Carbon Nitrideâ€Based Materials as Catalysts for the Upgrading of Lignocellulosic Biomassâ€Derived Molecules. ChemSusChem, 2020, 13, 3992-4004.	6.8	22
2081	Carbon nanomaterials: synthesis, functionalization, and properties. , 2020, , 137-179.		4
2082	Graphitic Carbon Nitride Films: Emerging Paradigm for Versatile Applications. ACS Applied Materials & Interfaces, 2020, 12, 53571-53591.	8.0	57
2083	Spin Polarization-Induced Facile Dioxygen Activation in Boron-Doped Graphitic Carbon Nitride. ACS Applied Materials & Interfaces, 2020, 12, 52741-52748.	8.0	15
2084	P ₅ W ₃₀ /g-C ₃ N ₄ heterojunction thin film with improved photoelectrochemical performance for solar water splitting. New Journal of Chemistry, 2020, 44, 20470-20478.	2.8	20

ARTICLE IF CITATIONS Carbon nitride nanotube-based materials for energy and environmental applications: a review of 2085 10.3 66 recent progresses. Journal of Materials Chemistry A, 2020, 8, 25626-25648. Synergistic Effect on Photocatalytic Activity of Co-Doped NiTiO3/g-C3N4 Composites under Visible 3.5 Light Irradiation. Catalysts, 2020, 10, 1332. Selective Photocatalytic Reduction of CO₂ to CH₄ Modulated by Chloride Modification on Bi₂WO₆ Nanosheets. ACS Applied Materials & amp; Interfaces, 2087 8.0 62 2020, 12, 54507-54516. Visible light production of hydrogen from glycerol over Cu2O-gC3N4 nanocomposites with enhanced 5.8 photocatalytic efficiency. Journal of Materials Research and Technology, 2020, 9, 15335-15345. Preparation of C₃N₄/montmorillonite composite photocatalyst for effective 2089 2.2 2 removal of organic pollutants. Environmental Technology (United Kingdom), 2022, 43, 1513-1521. Magnetic selenium-doped graphitic carbon nitride nanocomposite as an effective catalyst support for stabilization of Cu NPs. Diamond and Related Materials, 2020, 110, 108136. Synthesis of Zn doped g-C3N4 in KCl-ZnCl2 molten salts: The temperature window for promoting the 2091 6.1 15 photocatalytic activity. Applied Surface Science, 2020, 533, 147429. In-situ synthesis of Fe and O co-doped g-C3N4 to enhance peroxymonosulfate activation with favorable charge transfer for efficient contaminant decomposition. Journal of the Taiwan Institute 5.3 29 of Chemical Engineers, 2020, 115, 198-207. Structures and optoelectronic properties of two-dimensional MC6 (Mâ \in =a \in Ti and Hf) predicted by 2093 1.9 0 computational approaches. Materials Today Communications, 2020, 25, 101606. On Topological Analysis of Graphite Carbon Nitride via Degree Based Coindices. Polycyclic Aromatic 2094 2.6 Compounds, 2022, 42, 2777-2788. Scientific Literature Analysis on Sustainability with the Implication of Open Innovation. Journal of 2095 5.2 16 Open Innovation: Technology, Market, and Complexity, 2020, 6, 162. Structure couture and appraisal of catalytic activity of carbon nitride (g-C3N4) based materials 2096 5.6 towards sustainability. Current Research in Green and Sustainable Chemistry, 2020, 3, 100039. Molecular topological indices-based analysis of thermodynamic properties of graphitic carbon 2097 2.6 5 nitride. European Physical Journal Plus, 2020, 135, 1. Recent Advances in the Design of Plasmonic Au/TiO2 Nanostructures for Enhanced Photocatalytic 2098 4.1 34 Water Splitting. Nanomaterials, 2020, 10, 2260. Atomic carbon chain-linked polymeric carbon nitride: Roles of the carbon chain in enhancing the 2099 4.3 26 photocatalytic hydrogen evolution performance. Applied Catalysis A: General, 2020, 606, 117833. Facile Synthesis of Defect-Modified Thin-Layered and Porous g-C₃N₄ with Synergetic Improvement for Photocatalytic H₂ Production. ACS Applied Materials & amp; Interfaces, 2020, 12, 52603-52614. Construction of the Ni₂P/MoP Heterostructure as a High-Performance Cocatalyst for 2101 5.131 Visible-Light-Driven Hydrogen Production. ACS Applied Energy Materials, 2020, 3, 10910-10919. Reactive oxygen species: New insights into photocatalytic pollutant degradation over g-C3N4/ZnSe 6.1 44 nanocomposite. Applied Surface Science, 2020, 532, 147418.

#	Article	IF	CITATIONS
2103	A supported-catalyst of grafting [Co(TPA)Cl]Cl molecular catalyst onto SiO2 nanoparticles to achieve robust syngas production in a photochemical system. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112742.	3.9	4
2104	Achieving High Activity and Selectivity of Nitrogen Reduction via Fe–N ₃ Coordination on Iron Single-Atom Electrocatalysts at Ambient Conditions. ACS Sustainable Chemistry and Engineering, 2020, 8, 12809-12816.	6.7	41
2105	Highâ€Level Pyridinicâ€Nâ€Doped Carbon Nanosheets with Promising Performances Severed as Liâ€lon Battery Anodes. Energy Technology, 2020, 8, 2000361.	3.8	24
2106	Colloidal properties of the metal-free semiconductor graphitic carbon nitride. Advances in Colloid and Interface Science, 2020, 283, 102229.	14.7	37
2107	3D-heterostructured NiO nanofibers/ultrathin g-C3N4 holey nanosheets: An advanced electrode material for all-solid-state asymmetric supercapacitors with multi-fold enhanced energy density. Electrochimica Acta, 2020, 358, 136871.	5.2	28
2108	One-pot hydrothermal synthesis of dual Z-scheme BiOBr/g-C3N4/Bi2WO6 and photocatalytic degradation of tetracycline under visible light. Materials Letters, 2020, 281, 128463.	2.6	26
2109	A high performance and low cost poly(dibenzothiophene- <i>S</i> , <i>S</i> -dioxide)@TiO ₂ composite with hydrogen evolution rate up to 51.5 mmol h ^{â^'1} g ^{â^'1} . Journal of Materials Chemistry A, 2020, 8, 18292-18301.	10.3	23
2110	Acidification and bubble template derived porous g-C3N4 for efficient photodegradation and hydrogen evolution. Chinese Chemical Letters, 2020, 31, 2668-2672.	9.0	36
2111	Biomimetic synthesis of 2D/2D mixed graphitic carbon nitride /carbonized polydopamine nanosheets with excellent photocatalytic performance. Materials Chemistry and Physics, 2020, 256, 123621.	4.0	15
2112	Solar-enhanced hybrid lithium–oxygen batteries with a low voltage and superior long-life stability. Chemical Communications, 2020, 56, 13642-13645.	4.1	15
2113	Sub 10 nm CoO nanoparticle-decorated graphitic carbon nitride for solar hydrogen generationviaefficient charge separation. Nanoscale Advances, 2020, 2, 4473-4481.	4.6	4
2114	Efficient Kr/Xe separation from triangular g-C ₃ N ₄ nanopores, a simulation study. Journal of Materials Chemistry A, 2020, 8, 17747-17755.	10.3	6
2115	The coordination of Al on pyridinic-N doped graphene as electrons reservoir for efficiently catalyzing CO oxidization. Applied Surface Science, 2020, 531, 147310.	6.1	16
2116	Crystalline Carbon Nitride Supported Copper Single Atoms for Photocatalytic CO ₂ Reduction with Nearly 100% CO Selectivity. ACS Nano, 2020, 14, 10552-10561.	14.6	417
2117	Cobalt and nitrogen codoped carbon nanotubes derived from a graphitic C ₃ N ₄ template as an electrocatalyst for the oxygen reduction reaction. Nanoscale Advances, 2020, 2, 3963-3971.	4.6	6
2118	Cobalt- and iron-coordinated graphitic carbon nitride on reduced graphene oxide: A nonprecious bimetallic M–N –C analogue electrocatalyst for efficient oxygen reduction reaction in acidic media. Applied Surface Science, 2020, 531, 147367.	6.1	32
2119	Molecular engineering of CxNy: Topologies, electronic structures and multidisciplinary applications. Chinese Chemical Letters, 2020, 31, 3047-3054.	9.0	54
2120	Highly efficient and stable photocatalytic properties of CdS/FeS nanocomposites. New Journal of Chemistry, 2020, 44, 14695-14702.	2.8	5

#	Article	IF	CITATIONS
2121	Functionalization of Graphene Oxide with Porphyrins: Synthetic Routes and Biological Applications. ChemPlusChem, 2020, 85, 1857-1880.	2.8	31
2122	Quantification of boron contents in BN/BCN composites by prompt gamma-ray neutron activation analysis utilizing thermal neutron beam at Dhruva reactor. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 977-982.	1.5	0
2123	Novelty g-C3N4/HAp composite as highly effective photocatalyst for Cr (VI) photoreduction. Catalysis Today, 2022, 388-389, 168-175.	4.4	16
2124	Boosted insights of novel accordion-like (2D/2D) hybrid photocatalyst for the removal of cationic dyes: Mechanistic and degradation pathways. Journal of Environmental Management, 2020, 273, 111125.	7.8	45
2125	Graphitic carbon nitride-based 2D catalysts for green energy: Physical mechanism and applications. Materials Today Energy, 2020, 17, 100488.	4.7	14
2126	Long-Lasting and Intense Chemiluminescence of Luminol Triggered by Oxidized g-C ₃ N ₄ Nanosheets. Analytical Chemistry, 2020, 92, 11860-11868.	6.5	40
2127	Tale of Two Layered Semiconductor Catalysts toward Artificial Photosynthesis. ACS Applied Materials & Interfaces, 2020, 12, 37811-37833.	8.0	17
2128	<i>Ab initio</i> quantum dynamics of charge carriers in graphitic carbon nitride nanosheets. Journal of Chemical Physics, 2020, 153, 054701.	3.0	27
2129	Covalent Triazine Framework Nanosheets for Efficient Energy Storage and Conversion. Chemical Research in Chinese Universities, 2020, 36, 640-647.	2.6	25
2130	A one-pot microwave irradiation route to synthesis of CoFe2O4-g-C3N4 heterojunction catalysts for high visible light photocatalytic activity: Exploration of efficiency and stability. Diamond and Related Materials, 2020, 109, 108012.	3.9	37
2132	Controlled colloidal metal nanoparticles and nanoclusters: recent applications as cocatalysts for improving photocatalytic water-splitting activity. Journal of Materials Chemistry A, 2020, 8, 16081-16113.	10.3	66
2133	LaOCl oupled Polymeric Carbon Nitride for Overall Water Splitting through a Oneâ€Photon Excitation Pathway. Angewandte Chemie - International Edition, 2020, 59, 20919-20923.	13.8	87
2134	LaOClâ€Coupled Polymeric Carbon Nitride for Overall Water Splitting through a Oneâ€Photon Excitation Pathway. Angewandte Chemie, 2020, 132, 21105-21109.	2.0	10
2135	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. Solar Energy, 2020, 208, 379-387.	6.1	13
2136	Quantum dot-sensitized O-linked heptazine polymer photocatalyst for the metal-free visible light hydrogen generation. RSC Advances, 2020, 10, 29633-29641.	3.6	10
2137	Dynamic charge transfer through Fermi level equilibration in the p-CuFe ₂ O ₄ /n-NiAl LDH interface towards photocatalytic application. Catalysis Science and Technology, 2020, 10, 6285-6298.	4.1	28
2138	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. Trends in Chemistry, 2020, 2, 813-824.	8.5	126
2139	State-of-the-art advancements in photo-assisted CO ₂ hydrogenation: recent progress in catalyst development and reaction mechanisms. Journal of Materials Chemistry A, 2020, 8, 24868-24894.	10.3	40

#	Article	IF	CITATIONS
2140	1D/2D Heterostructured Photocatalysts: From Design and Unique Properties to Their Environmental Applications. Small, 2020, 16, e2005051.	10.0	93
2141	2D Porous N-Deficient g-C ₃ N ₄ Nanosheet Decorated with CdS Nanoparticles for Enhanced Visible-Light-Driven Photocatalysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 16897-16904.	6.7	50
2142	A Time-Resolved Spectroscopic Investigation of a Novel BODIPY Copolymer and Its Potential Use as a Photosensitiser for Hydrogen Evolution. Frontiers in Chemistry, 2020, 8, 584060.	3.6	5
2143	Pharmaceuticals and personal care products in water and wastewater: a review of treatment processes and use of photocatalyst immobilized on functionalized carbon in AOP degradation. BMC Chemistry, 2020, 14, 62.	3.8	90
2144	Greener and regioselective ring opening of epoxides with TMSCN using potassium salts of magnetic carbon nitride. Monatshefte FA¼r Chemie, 2020, 151, 1597-1602.	1.8	2
2145	Antibacterial nanomaterials for environmental and consumer product applications. NanoImpact, 2020, 20, 100268.	4.5	37
2146	2D Nanocomposite Membranes: Water Purification and Fouling Mitigation. Membranes, 2020, 10, 295.	3.0	15
2147	Hydrogel-supported graphitic carbon nitride nanosheets loaded with Pt atoms as a novel self-water-storage photocatalyst for H ₂ evolution. Journal of Materials Chemistry A, 2020, 8, 23812-23819.	10.3	38
2148	Visible light driven perovskite-based photocatalysts: A new candidate for green organic synthesis by photochemical protocol. Current Research in Green and Sustainable Chemistry, 2020, 3, 100031.	5.6	33
2149	Exploring The Effect of Precursors of Polymeric Carbon Nitride Nanosheets on their Photo and Electrocatalytic Applications. ChemistrySelect, 2020, 5, 12679-12689.	1.5	2
2150	Activating Co nanoparticles on P-doped carbon nitride via enhancing Mott-Schottky effect by constructing interfacial chemical bonding for the efficient dehydrogenation of ammonia-borane. Applied Surface Science, 2020, 533, 146999.	6.1	16
2151	Design of Three-Dimensional Hollow-Sphere Architecture of Ti ₃ C ₂ T _{<i>x</i>} MXene with Graphitic Carbon Nitride Nanoshells for Efficient Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 9226-9233.	5.1	76
2152	Carbon-based nanomaterials: in the quest of alternative metal-free photocatalysts for solar water splitting. Nanoscale Advances, 2020, 2, 5130-5151.	4.6	50
2153	The lightest solid meets the lightest gas: an overview of carbon aerogels and their composites for hydrogen related applications. Nanoscale, 2020, 12, 19536-19556.	5.6	41
2154	Fusiform‧haped g ₃ N ₄ Capsules with Superior Photocatalytic Activity. Small, 2020, 16, e2003910.	10.0	47
2155	Fabricating a g-C3N4/CuO heterostructure with improved catalytic activity on the multicomponent synthesis of pyrimidoindazoles. Journal of Nanostructure in Chemistry, 2020, 10, 289-308.	9.1	20
2156	Iron-doped g-C ₃ N ₄ modified CoMoO ₄ as an efficient heterogeneous catalyst to activate peroxymonosulfate for degradation of organic dye. Journal of Dispersion Science and Technology, 2022, 43, 80-93.	2.4	7
2157	g-C ₃ N ₄ -based photoelectrodes for photoelectrochemical water splitting: a review. Journal of Materials Chemistry A, 2020, 8, 21474-21502.	10.3	111

#	Article	IF	Citations
2158	Direct probing of atomically dispersed Ru species over multi-edged TiO ₂ for highly efficient photocatalytic hydrogen evolution. Science Advances, 2020, 6, .	10.3	161
2159	Nickel-based cocatalysts for photocatalysis: Hydrogen evolution, overall water splitting and CO2 reduction. Materials Today Physics, 2020, 15, 100279.	6.0	70
2160	Graphitic carbon nitride-based nanocomposites electrochemiluminescence systems and their applications in biosensors. TrAC - Trends in Analytical Chemistry, 2020, 132, 116054.	11.4	56
2161	Direct growth of uniform carbon nitride layers with extended optical absorption towards efficient water-splitting photoanodes. Nature Communications, 2020, 11, 4701.	12.8	87
2162	Salt-templated synthesis of 3D porous foam-like C ₃ N ₄ towards high-performance photodegradation of tetracyclines. New Journal of Chemistry, 2020, 44, 17405-17412.	2.8	24
2163	Mechanism of visible photon absorption: unveiling of the C ₃ N ₄ –ZnO photoactive interface by means of EPR spectroscopy. Materials Advances, 2020, 1, 2357-2367.	5.4	16
2164	Activity and selectivity of CO ₂ photoreduction on catalytic materials. Dalton Transactions, 2020, 49, 12918-12928.	3.3	13
2165	Ambient Temperature Graphitization Based on Mechanochemical Synthesis. Angewandte Chemie, 2020, 132, 22119-22123.	2.0	3
2166	Ambient Temperature Graphitization Based on Mechanochemical Synthesis. Angewandte Chemie - International Edition, 2020, 59, 21935-21939.	13.8	32
2167	Fabrication of corncob-derived biomass charcoal decorated g-C ₃ N ₄ photocatalysts for removing 2-mercaptobenzothiazole. New Journal of Chemistry, 2020, 44, 15908-15918.	2.8	17
2168	Photocatalytic Advanced Oxidation Processes for Water Treatment: Recent Advances and Perspective. Chemistry - an Asian Journal, 2020, 15, 3239-3253.	3.3	118
2169	Electrode Materials for Supercapacitors: A Review of Recent Advances. Catalysts, 2020, 10, 969.	3.5	269
2170	Few-Layered Phosphorene–Graphitic Carbon Nitride Nanoheterostructure as a Metal-Free Photocatalyst for Aerobic Oxidation of Benzyl Alcohol and Toluene. ACS Sustainable Chemistry and Engineering, 2020, 8, 13342-13351.	6.7	44
2171	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. Nano-Micro Letters, 2020, 12, 167.	27.0	57
2172	Photooxidation of water with heptazine-based molecular photocatalysts: Insights from spectroscopy and computational chemistry. Journal of Chemical Physics, 2020, 153, 100902.	3.0	17
2173	Unraveling molecular-level mechanisms of reactive facet of carbon nitride single crystals photocatalyzing overall water splitting. Rare Metals, 2020, 39, 1353-1355.	7.1	27
2174	Graphitic carbon nitride (g-C ₃ N ₄)-based membranes for advanced separation. Journal of Materials Chemistry A, 2020, 8, 19133-19155.	10.3	99
2175	The External Electric Field-Induced Tunability of the Schottky Barrier Height in Graphene/AlN Interface: A Study by First-Principles. Nanomaterials, 2020, 10, 1794.	4.1	8

#	Article	IF	CITATIONS
2176	Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donorâ€Æâ€Acceptor Organic Molecule Heterostructures. Advanced Functional Materials, 2020, 30, 2005106.	14.9	46
2177	Graphitic Carbon Nitride Microtubes for Efficient Photocatalytic Overall Water Splitting: The Morphology Derived Electrical Field Enhancement. ACS Sustainable Chemistry and Engineering, 2020, 8, 14386-14396.	6.7	39
2178	Sunlight-Operated TiO2-Based Photocatalysts. Molecules, 2020, 25, 4008.	3.8	23
2179	Perylene diimide self-assembly: From electronic structural modulation to photocatalytic applications. Journal of Semiconductors, 2020, 41, 091708.	3.7	11
2180	Unravelling the Mechanisms that Drive the Performance of Photocatalytic Hydrogen Production. Catalysts, 2020, 10, 901.	3.5	45
2181	The Applications of 2D Nanomaterials in Energy-Related Process. ACS Symposium Series, 2020, , 219-251.	0.5	1
2182	Constructing CeO ₂ /nitrogen-doped carbon quantum dot/g-C ₃ N ₄ heterojunction photocatalysts for highly efficient visible light photocatalysis. Nanoscale, 2020, 12, 19112-19120.	5.6	43
2183	Photocatalytic Activity Investigation of α-Zirconium Phosphate Nanoparticles Compositing with C ₃ N ₄ under Ultraviolet Light. ACS Omega, 2020, 5, 27873-27879.	3.5	8
2184	Functional group defect design in polymeric carbon nitride for photocatalytic application. APL Materials, 2020, 8, .	5.1	16
2185	Electronic effects on optical properties of graphitic Carbon Nitride towards its superiority. , 2020, , .		4
2186	Intermolecular Hydrogen Bonding Tunes Vibronic Coupling in Heptazine Complexes. Journal of Physical Chemistry B, 2020, 124, 11680-11689.	2.6	7
2187	Characteristics and Behavior of Different Catalysts Used for Water Decontamination in Photooxidation and Ozonation Processes. Catalysts, 2020, 10, 1485.	3.5	7
2188	High mobility organic semiconductor for constructing high efficiency carbon nitride heterojunction photocatalysts. Journal of Materials Chemistry C, 2020, 8, 17157-17161.	5.5	7
2189	Plasmon-Induced Hot Electron Amplification and Effective Charge Separation by Au Nanoparticles Sandwiched between Copper Titanium Phosphate Nanosheets and Improved Carbon Dioxide Conversion to Methane. ACS Sustainable Chemistry and Engineering, 2020, 8, 18646-18660.	6.7	9
2190	Controllable Synthesis of Phosphorusâ€Doped Graphitic Carbon Nitride via a Simple Phosphorus Compound Towards Enhanced Visible‣ight Photocatalytic Performance. ChemistrySelect, 2020, 5, 13862-13867.	1.5	5
2191	Gas-sculpted g-C3N4 for efficient photocatalytic reduction of U(VI). Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1805-1817.	1.5	9
2192	Emerging Concepts in Carbon Nitride Organic Photocatalysis. ChemPlusChem, 2020, 85, 2499-2517.	2.8	47
2193	Dual roles of [NCN]2- on anatase TiO2: A fully occupied molecular gap state for direct charge injection into the conduction band and an interfacial mediator for the covalent formation of	20.2	11

#	Article	IF	CITATIONS
2194	Recent Progress in 2D Metalâ€Organic Frameworks for Optical Applications. Advanced Optical Materials, 2020, 8, 2000110.	7.3	85
2195	Exploring the role of electronic structure on photo-catalytic behavior of carbon-nitride polymorphs. Carbon, 2020, 168, 125-134.	10.3	19
2196	SnS2/g-C3N4/graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. Electrochimica Acta, 2020, 349, 136369.	5.2	29
2197	Activating and optimizing activity of CdS@g-C3N4 heterojunction for photocatalytic hydrogen evolution through the synergistic effect of phosphorus doping and defects. Journal of Alloys and Compounds, 2020, 834, 155201.	5.5	21
2198	Photoinduced water oxidation in pyrimidine–water clusters: a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2020, 22, 12502-12514.	2.8	16
2199	In-situ route for the graphitized carbon/TiO2 composite photocatalysts with enhanced removal efficiency to emerging phenolic pollutants. Chinese Journal of Catalysis, 2020, 41, 1378-1392.	14.0	14
2200	Highly crumpled graphene-like material as compression-resistant electrode material for high energy-power density supercapacitor. Chemical Engineering Journal, 2020, 397, 125525.	12.7	23
2201	Synthesis and fabrication of g-C3N4-based materials and their application in elimination of pollutants. Science of the Total Environment, 2020, 731, 139054.	8.0	224
2202	Dual enhancement of capturing photogenerated electrons by loading CoP nanoparticles on N-deficient graphitic carbon nitride for efficient photocatalytic degradation of tetracycline under visible light. Separation and Purification Technology, 2020, 246, 116930.	7.9	109
2203	Carbon dot-based composites for catalytic applications. Green Chemistry, 2020, 22, 4034-4054.	9.0	74
2204	Three-dimensional graphene oxide cross-linked by benzidine as an efficient metal-free photocatalyst for hydrogen evolution. RSC Advances, 2020, 10, 14725-14732.	3.6	10
2205	Fe and Cu co-doped graphitic carbon nitride as an eco-friendly photo-assisted catalyst for aniline degradation. Environmental Science and Pollution Research, 2020, 27, 29391-29407.	5.3	29
2206	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured α-Fe ₂ O ₃ /g-C ₃ N ₄ Z-Scheme System for Efficient CO ₂ Reduction into Solar Fuels. ACS Applied Energy Materials, 2020, 3, 6561-6572.	5.1	67
2207	From Triazine to Heptazine: Origin of Graphitic Carbon Nitride as a Photocatalyst. ACS Omega, 2020, 5, 12557-12567.	3.5	61
2208	<i>In situ</i> synthesis of ultrafine metallic MoO ₂ /carbon nitride nanosheets for efficient photocatalytic hydrogen generation: a prominent cocatalytic effect. Catalysis Science and Technology, 2020, 10, 4053-4060.	4.1	9
2209	Excitonic effects on photophysical processes of polymeric carbon nitride. Journal of Applied Physics, 2020, 127, .	2.5	14
2210	Modified mesoporous graphitic carbon nitride: a novel high-performance heterogeneous base catalyst for transesterification reaction. Sustainable Energy and Fuels, 2020, 4, 3537-3545.	4.9	25
2211	Palladium Nanoparticle-Decorated Mesoporous Polydopamine/Bacterial Nanocellulose as a Catalytically Active Universal Dye Removal Ultrafiltration Membrane. ACS Applied Nano Materials, 2020, 3, 5437-5448.	5.0	36

#	Article	IF	CITATIONS
2212	Fabrication and characterization of ternary sepiolite/g-C3N4/Pd composites for improvement of photocatalytic degradation of ciprofloxacin under visible light irradiation. Journal of Colloid and Interface Science, 2020, 577, 397-405.	9.4	58
2213	Novel exfoliated graphitic-C3N4 hybridised ZnBi2O4 (g-C3N4/ZnBi2O4) nanorods for catalytic reduction of 4-Nitrophenol and its antibacterial activity. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 398, 112591.	3.9	32
2214	Enhanced Antibacterial Photocatalytic Activity of Porous Few-Layer C ₃ N ₄ . Journal of Nanoscience and Nanotechnology, 2020, 20, 5944-5950.	0.9	4
2215	Pbâ€Based Halide Perovskites: Recent Advances in Photo(electro)catalytic Applications and Looking Beyond. Advanced Functional Materials, 2020, 30, 1909667.	14.9	77
2216	Exfoliated, mesoporous W18O49/g-C3N4 composites for efficient photocatalytic H2 evolution. Solid State Sciences, 2020, 106, 106298.	3.2	12
2217	Crystalline phase engineering in WO ₃ /g-C ₃ N ₄ composites for improved photocatalytic performance under visible light. Materials Research Express, 2020, 7, 065503.	1.6	5
2218	Synergetic effect of piezoelectricity and heterojunction on photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112661.	3.9	10
2219	A pseudo-metal-free strategy for constructing high performance photoelectrodes. Journal of Materials Chemistry A, 2020, 8, 12767-12773.	10.3	4
2220	Synthesis of Holey Graphitic Carbon Nitride with Highly Enhanced Photocatalytic Reduction Activity via Melamine-cyanuric Acid Precursor Route. Chemical Research in Chinese Universities, 2020, 36, 1024-1031.	2.6	10
2221	Cooperatively modulating reactive oxygen species generation and bacteria-photocatalyst contact over graphitic carbon nitride by polyethylenimine for rapid water disinfection. Applied Catalysis B: Environmental, 2020, 274, 119095.	20.2	97
2222	Graphitic nitride-catalyzed advanced oxidation processes (AOPs) for landfill leachate treatment: A mini review. Chemical Engineering Research and Design, 2020, 139, 230-240.	5.6	42
2223	Ultra-thin tubular graphitic carbon Nitride-Carbon Dot lateral heterostructures: One-Step synthesis and highly efficient catalytic hydrogen generation. Chemical Engineering Journal, 2020, 397, 125470.	12.7	72
2224	Construction of S-scheme g-C3N4/ZrO2 heterostructures for enhancing photocatalytic disposals of pollutants and electrocatalytic hydrogen evolution. Dyes and Pigments, 2020, 180, 108525.	3.7	58
2225	Recent development in band engineering of binary semiconductor materials for solar driven photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 15985-16038.	7.1	187
2226	Visible light-driven hydrogen evolution by using mesoporous carbon nitride-metal ferrite (MFe2O4/mpg-CN; M: Mn, Fe, Co and Ni) nanocomposites as catalysts. International Journal of Hydrogen Energy, 2020, 45, 16509-16518.	7.1	22
2227	CaH2-assisted structural engineering of porous defective graphitic carbon nitride (g-C3N4) for enhanced photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 18937-18945.	7.1	12
2228	Solid-state synthesis of ultrathin MoS2 as a cocatalyst on mesoporous g-C3N4 for excellent enhancement of visible light photoactivity. Journal of Alloys and Compounds, 2020, 836, 155401.	5.5	28
2229	2D/2D Bi2MoO6/g-C3N4 S-scheme heterojunction photocatalyst with enhanced visible-light activity by Au loading. Journal of Materials Science and Technology, 2020, 56, 216-226.	10.7	172

#	Article	IF	CITATIONS
2230	Photogenerated charge behavior of BiOI/g-C3N4 photocatalyst in photoreduction of Cr (VI): A novel understanding for high-performance. Materials Chemistry and Physics, 2020, 252, 123194.	4.0	35
2233	Tuning of the Oxygen Species Linker on the Surface of Polymeric Carbon Nitride to Promote the Photocatalytic Hydrogen Evolution Performance. ChemSusChem, 2020, 13, 3605-3613.	6.8	9
2234	Fabrication of Novel ZnSeO3 Anchored on g-C3N4 Nanosheets: An Outstanding Photocatalyst for the Mitigation of Pesticides and Pharmaceuticals. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 4664-4676.	3.7	9
2235	C3N4 modified with single layer ZIF67 nanoparticles for efficient photocatalytic degradation of organic pollutants under visible light. Chinese Journal of Catalysis, 2020, 41, 1894-1905.	14.0	46
2236	Formation of Mo2C/hollow tubular g-C3N4 hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. Applied Surface Science, 2020, 527, 146757.	6.1	56
2237	Zinc, sulfur and nitrogen co-doped carbon from sodium chloride/zinc chloride-assisted pyrolysis of thiourea/sucrose for highly efficient oxygen reduction reaction in both acidic and alkaline media. Journal of Colloid and Interface Science, 2020, 576, 139-146.	9.4	30
2238	Synergistic effects of Pd–Ag bimetals and g-C3N4 photocatalysts for selective and efficient conversion of gaseous CO2. Journal of Power Sources, 2020, 466, 228306.	7.8	29
2239	Actinyl-Modified g-C ₃ N ₄ as CO ₂ Activation Materials for Chemical Conversion and Environmental Remedy via an Artificial Photosynthetic Route. Inorganic Chemistry, 2020, 59, 8369-8379.	4.0	8
2240	Nickel-decorated g-C ₃ N ₄ hollow spheres as an efficient photocatalyst for hydrogen evolution and oxidation of amines to imines. New Journal of Chemistry, 2020, 44, 11710-11719.	2.8	13
2241	A nine-fold enhancement of visible-light photocatalytic hydrogen production of g-C ₃ N ₄ with TCNQ by forming a conjugated structure. RSC Advances, 2020, 10, 20110-20117.	3.6	4
2242	One-step preparation of sulfur-doped porous g-C ₃ N ₄ for enhanced visible light photocatalytic performance. Dalton Transactions, 2020, 49, 8041-8050.	3.3	48
2243	2D/2D Heterostructured Photocatalysts: An Emerging Platform for Artificial Photosynthesis. Solar Rrl, 2020, 4, 2000132.	5.8	94
2244	Combined effect of physicochemical factors on the retention and transport of g-C3N4 in porous media. Chemosphere, 2020, 256, 127100.	8.2	7
2245	Ternary Ni2P/reduced graphene oxide/g-C3N4 nanotubes for visible light-driven photocatalytic H2 production. International Journal of Hydrogen Energy, 2020, 45, 16094-16104.	7.1	34
2246	Vanadium (V) and Niobium (Nb) as the most promising co-catalysts for hydrogen sulfide splitting screened out from 3d and 4d transition metal single atoms. International Journal of Hydrogen Energy, 2020, 45, 17480-17492.	7.1	19
2247	Synthesis of EDTA-bridged CdS/g-C3N4 heterostructure photocatalyst with enhanced performance for photoredox reactions. Journal of Colloid and Interface Science, 2020, 577, 459-470.	9.4	62
2248	Palladium modified ZnFe2O4/g-C3N4 nanocomposite as an efficiently magnetic recycling photocatalyst. Journal of Solid State Chemistry, 2020, 288, 121389.	2.9	40
2249	Elemental red phosphorus-based materials for photocatalytic water purification and hydrogen production. Nanoscale, 2020, 12, 13297-13310.	5.6	86

#	Article	IF	Citations
2250	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 11075-11116.	10.3	142
2251	A Nitrogen-Rich Covalent Triazine Framework as a Photocatalyst for Hydrogen Production. Advances in Polymer Technology, 2020, 2020, 1-12.	1.7	6
2252	Enhanced Photocatalytic Hydrogen Production of Fe2O3 Decorated TiO2 Nanorods: Optimization of Hydrothermal Temperature. International Journal of Electrochemical Science, 2020, 15, 4534-4545.	1.3	4
2253	Highly enhanced photocatalytic hydrogen evolution activity of graphitic carbon nitride with 3D connected mesoporous structure. Sustainable Materials and Technologies, 2020, 25, e00184.	3.3	10
2254	In situ stable growth of β-FeOOH on g-C3N4 for deep oxidation of emerging contaminants by photocatalytic activation of peroxymonosulfate under solar irradiation. Chemical Engineering Journal, 2020, 400, 125872.	12.7	64
2255	Nitrogen defects-rich porous graphitic carbon nitride for efficient photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2020, 578, 788-795.	9.4	22
2256	A metal-free heterogeneous photocatalyst for the selective oxidative cleavage of C bonds in aryl olefins <i>via</i> harvesting direct solar energy. Green Chemistry, 2020, 22, 4516-4522.	9.0	84
2257	Surface nitrided and carbon coated TiNb2O7 anode material with excellent performance for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 835, 155241.	5.5	20
2258	Photocatalytic H2 evolution and CO2 reduction over phosphorus-doped g-C3N4 nanostructures: Electronic, Optical, and Surface properties. Renewable and Sustainable Energy Reviews, 2020, 130, 109957.	16.4	59
2259	In Situ Grown Singleâ€Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. Small, 2020, 16, e2001634.	10.0	235
2260	Lowering the schottky barrier of g-C3N4/Carbon graphite heterostructure by N-doping for increased photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2020, 278, 119253.	20.2	66
2261	Defect engineering of zeolite imidazole framework derived ZnS nanosheets towards enhanced visible light driven photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2020, 278, 119265.	20.2	69
2262	Nitrogen-deficient g-C3Nx/POMs porous nanosheets with P–N heterojunctions capable of the efficient photocatalytic degradation of ciprofloxacin. Chemosphere, 2020, 259, 127465.	8.2	33
2263	Enhanced interfacial electron transfer and boosted visible-light photocatalytic hydrogen evolution activity of g-C3N4 by noble-metal-free MoSe2 nanoparticles. Journal of Materials Science, 2020, 55, 13114-13126.	3.7	22
2264	One-step synthesis of P-doped poly(triazine imide) nanotubes with hybrid 1D/1D architecture and high-efficiency photocatalytic performance. Journal of Materials Science, 2020, 55, 13675-13686.	3.7	9
2265	Immobilized phosphotungstic acid for the construction of proton exchange nanocomposite membranes with excellent stability and fuel cell performance. International Journal of Hydrogen Energy, 2020, 45, 17782-17794.	7.1	18
2266	Facile synthesis of B/g-C ₃ N ₄ composite materials for the continuous-flow selective photo-production of acetone. Green Chemistry, 2020, 22, 4975-4984.	9.0	25
2267	Black Phosphorus and Carbon Nitride Hybrid Photocatalysts for Photoredox Reactions. Advanced Functional Materials, 2020, 30, 2002021.	14.9	75

#	Article	IF	CITATIONS
2268	Electrophoretic deposition of supramolecular complexes for the formation of carbon nitride films. Sustainable Energy and Fuels, 2020, 4, 3879-3883.	4.9	14
2269	Delicate Balance of Nonâ€Covalent Forces Govern the Biocompatibility of Graphitic Carbon Nitride towards Genetic Materials. ChemPhysChem, 2020, 21, 1836-1846.	2.1	12
2270	Simultaneous nitrogen doping and Cu2O oxidization by one-step plasma treatment toward nitrogen-doped Cu2O@CuO heterostructure: An efficient photocatalyst for H2O2 evolution under visible light. Applied Surface Science, 2020, 527, 146908.	6.1	42
2271	Graphitic carbon nitride as a fascinating adsorbent for toxic gases: A mini-review. Chemical Physics Letters, 2020, 754, 137676.	2.6	27
2272	3D printed photoreactor with immobilized graphitic carbon nitride: A sustainable platform for solar water purification. Journal of Hazardous Materials, 2020, 399, 123097.	12.4	37
2273	A light-induced self-powered competitive immunosensor for the detection of platelet derived growth factor-BB via an elaborately assembled bioconjugate. Sensors and Actuators B: Chemical, 2020, 316, 128130.	7.8	14
2274	A Z-scheme heterojunction of ZnO/CDots/C3N4 for strengthened photoresponsive bacteria-killing and acceleration of wound healing. Journal of Materials Science and Technology, 2020, 57, 1-11.	10.7	74
2275	β-Carbon nitride nanoflake with enhanced visible light emission. Optical Materials, 2020, 107, 110036.	3.6	7
2276	Preparation of hierarchical g-C3N4@TiO2 hollow spheres for enhanced visible-light induced catalytic CO2 reduction. Solar Energy, 2020, 205, 465-473.	6.1	59
2277	Synthetic Organic Design for Solar Fuel Systems. Angewandte Chemie - International Edition, 2020, 59, 17344-17354.	13.8	27
2278	g-C3N4/CoAl-LDH 2D/2D hybrid heterojunction for boosting photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 21331-21340.	7.1	70
2279	Nanostructured semiconductor supported iron catalysts for heterogeneous photo-Fenton oxidation: a review. Journal of Materials Chemistry A, 2020, 8, 15513-15546.	10.3	132
2280	Engineering the Photocatalytic Behaviors of g/C ₃ N ₄ â€Based Metalâ€Free Materials for Degradation of a Representative Antibiotic. Advanced Functional Materials, 2020, 30, 2002353.	14.9	132
2281	Synthetic Organic Design for Solar Fuel Systems. Angewandte Chemie, 2020, 132, 17496-17506.	2.0	5
2282	Enhanced corrosion resistance and adhesion of epoxy coating by two-dimensional graphite-like g-C3N4 nanosheets. Journal of Colloid and Interface Science, 2020, 579, 152-161.	9.4	55
2283	Graphitic Carbon Nitride Nanosheet/FeWO ₄ Nanoparticle Composite for Tandem Photooxidation/Knoevenagel Condensation. ACS Applied Nano Materials, 2020, 3, 7057-7065.	5.0	18
2284	Enhanced through-plane thermal conductivity in Polymer nanocomposites by constructing graphene-supported BN nanotubes. Journal of Materials Chemistry C, 2020, 8, 9569-9575.	5.5	27
2285	2D N-Doped Porous Carbon Derived from Polydopamine-Coated Graphitic Carbon Nitride for Efficient Nonradical Activation of Peroxymonosulfate. Environmental Science & amp; Technology, 2020, 54, 8473-8481.	10.0	316

#	Article	IF	CITATIONS
2286	Hybrid 2D/3D g-C3N4/BiVO4 photocatalyst decorated with RGO for boosted photoelectrocatalytic hydrogen production from natural lake water and photocatalytic degradation of antibiotics. Journal of Molecular Liquids, 2020, 314, 113530.	4.9	38
2287	Three-dimensional Insight on Formation and Light-harvesting of Hollow-structure Carbon Nitride. ACS Applied Energy Materials, 2020, 3, 7020-7029.	5.1	6
2288	Activity enhancement pathways in LaFeO3@TiO2 heterojunction photocatalysts for visible and solar light driven degradation of myclobutanil pesticide in water. Journal of Hazardous Materials, 2020, 400, 123099.	12.4	53
2289	Low-temperature solvothermal–calcination preparation and enhanced photocatalytic performance of polymeric graphitic carbon nitride with disordered–ordered hybrid plane. Chemical Papers, 2020, 74, 4067-4074.	2.2	8
2290	Synthesis of high-efficient g-C3N4/polydopamine/CdS nanophotocatalyst based on bioinspired adhesion and chelation. Materials Research Bulletin, 2020, 131, 110970.	5.2	20
2291	Fabrication of efficient CuO / graphitic carbon nitride based heterogeneous photo-Fenton like catalyst for degradation of 2, 4 dimethyl phenol. Chemical Engineering Research and Design, 2020, 142, 63-75.	5.6	71
2292	Sulfur Doped Carbon-Rich g-C3N4 for Enhanced Photocatalytic H2 Evolution: Morphology and Crystallinity Effect. Catalysis Letters, 2020, 150, 2487-2496.	2.6	18
2293	High throughput screening of M ₃ C ₂ MXenes for efficient CO ₂ reduction conversion into hydrocarbon fuels. Nanoscale, 2020, 12, 7660-7673.	5.6	64
2294	Visible-light-induced photoxidation-Povarov cascade reaction: synthesis of 2-arylquinoline through alcohol and <i>N</i> -benzylanilines under mild conditions <i>via</i> Ag/g-C ₃ N ₄ nanometric semiconductor catalyst. Chemical Communications, 2020, 56, 4840-4843.	4.1	22
2295	Pressure tuned photoluminescence and band gap in two-dimensional layered g-C ₃ N ₄ : the effect of interlayer interactions. Nanoscale, 2020, 12, 12300-12307.	5.6	25
2296	Influence of Photocatalysis on Blood Cell Attachment over Protein-Immobilized Polystyrene Surfaces Modified with a Poly(styrene)- <i>b</i> -Poly(acrylic acid) Copolymer. Langmuir, 2020, 36, 3268-3275.	3.5	4
2297	Synthesis and Physicochemical Transformations of Sizeâ€Sorted Graphene Oxide during Simulated Digestion and Its Toxicological Assessment against an In Vitro Model of the Human Intestinal Epithelium. Small, 2020, 16, e1907640.	10.0	20
2298	Design, preparation and properties of high-performance Z-scheme Bi2MoO6/g-C3N4-x composite photocatalyst. Chemical Physics Letters, 2020, 748, 137381.	2.6	7
2299	N2 photofixation by Z-scheme single-layer g-C3N4/ZnFe2O4 for cleaner ammonia production. Materials Research Bulletin, 2020, 127, 110853.	5.2	39
2300	Ultrathin 2D Graphitic Carbon Nitride on Metal Films: Underpotential Sodium Deposition in Adlayers for Sodiumâ€lon Batteries. Angewandte Chemie - International Edition, 2020, 59, 9067-9073.	13.8	68
2301	Selective Adsorption and Photocatalytic Degradation of Extracellular Antibiotic Resistance Genes by Molecularly-Imprinted Graphitic Carbon Nitride. Environmental Science & Technology, 2020, 54, 4621-4630.	10.0	80
2302	Fabrication of hierarchical Co ₃ O ₄ @CdIn ₂ S ₄ p–n heterojunction photocatalysts for improved CO ₂ reduction with visible light. Journal of Materials Chemistry A, 2020, 8, 7177-7183.	10.3	176
2303	An overview of synthesis techniques for preparing doped photocatalysts. , 2020, , 1-13.		0

#	Article	IF	CITATIONS
2304	Strongly interfacial-coupled 2D-2D TiO2/g-C3N4 heterostructure for enhanced visible-light induced synthesis and conversion. Journal of Hazardous Materials, 2020, 394, 122529.	12.4	118
2305	Graphitic carbon nitride nanosheets prepared by electrophoretic size fractionation as an anticancer agent against human bone carcinoma. Materials Science and Engineering C, 2020, 111, 110803.	7.3	20
2306	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H ₂ O ₂ production. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6376-6382.	7.1	245
2307	Nanotechnology for Energy and Environmental Engineering. Green Energy and Technology, 2020, , .	0.6	10
2308	Nanotube confinement-induced g-C3N4/TiO2 nanorods with rich oxygen vacancies for enhanced photocatalytic water decontamination. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	6
2309	Facile Synthesis of FePS3 Nanosheets@MXene Composite as a High-Performance Anode Material for Sodium Storage. Nano-Micro Letters, 2020, 12, 54.	27.0	62
2310	Porous g-C3N4/WO3 photocatalyst prepared by simple calcination for efficient hydrogen generation under visible light. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 594, 124653.	4.7	49
2311	Deciphering co-catalytic mechanisms of potassium doped g-C3N4 in Fenton process. Journal of Hazardous Materials, 2020, 392, 122472.	12.4	45
2312	Visible-light-responsive K-doped g-C3N4/BiOBr hybrid photocatalyst with highly efficient degradation of Rhodamine B and tetracycline. Materials Science in Semiconductor Processing, 2020, 112, 105023.	4.0	61
2313	Polymeric heptazine imide by O doping and constructing van der Waals heterostructures for photocatalytic water splitting: a theoretical perspective from transition dipole moment analyses. Physical Chemistry Chemical Physics, 2020, 22, 9915-9922.	2.8	14
2314	Two-dimensional gersiloxenes with tunable bandgap for photocatalytic H2 evolution and CO2 photoreduction to CO. Nature Communications, 2020, 11, 1443.	12.8	84
2315	Visible–light–driven magnetically recyclable terephthalic acid functionalized gâ"C3N4/TiO2 heterojunction nanophotocatalyst for enhanced degradation of PPCPs. Applied Catalysis B: Environmental, 2020, 270, 118898.	20.2	105
2316	Intrinsic defect engineered Janus MoSSe sheet as a promising photocatalyst for water splitting. RSC Advances, 2020, 10, 10816-10825.	3.6	22
2317	Recent developments in reduced graphene oxide nanocomposites for photoelectrochemical water-splitting applications. International Journal of Hydrogen Energy, 2020, 45, 11976-11994.	7.1	50
2318	Application of nanotechnology for enhancing photodynamic therapy via ameliorating, neglecting, or exploiting tumor hypoxia. View, 2020, 1, e6.	5.3	51
2319	Modulating Location of Single Copper Atoms in Polymeric Carbon Nitride for Enhanced Photoredox Catalysis. ACS Catalysis, 2020, 10, 5715-5722.	11.2	80
2320	Facile synthesis and microstructure modulation of crystalline polymeric carbon nitride for highly boosted photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 6785-6794.	10.3	35
2321	Mesoporous TiO2/g-C3N4 composites with O-Ti-N bridge for improved visible-light photodegradation of enrofloxacin. Science of the Total Environment, 2020, 724, 138280.	8.0	38

#	Article	IF	CITATIONS
2322	Recent Developments in Synthesis and Photocatalytic Applications of Carbon Dots. Catalysts, 2020, 10, 320.	3.5	54
2323	Constructing N-Doped KNb3O8/g-C3N4 Composite for Efficient Photocatalytic H2 Generation and Degradation under Visible Light Irradiation. Catalysis Letters, 2020, 150, 2798-2806.	2.6	5
2324	Deposited CuBi2O4 and Bi3ClO4 nanoparticles on g-C3N4 nanosheet: a promising visible light-induced photocatalyst toward the removal of tetracycline hydrochloride and rhodamine B. Journal of Materials Science, 2020, 55, 7775-7791.	3.7	27
2325	Stable LBL self-assembly coating porous membrane with 3D heterostructure for enhanced water treatment under visible light irradiation. Chemosphere, 2020, 252, 126581.	8.2	36
2326	General synthesis of carbon and oxygen dual-doped graphitic carbon nitride via copolymerization for non-photochemical oxidation of organic pollutant. Journal of Hazardous Materials, 2020, 394, 122578.	12.4	71
2327	Graphitic carbon nitride (g-C3N4) as an efficient metal-free Fenton-like catalyst for degrading organic pollutants: the overlooked non-photocatalytic activity. Water Science and Technology, 2020, 81, 518-528.	2.5	19
2328	αâ^'Fe ₂ O ₃ Nanoparticles/Porous gâ^'C ₃ N ₄ Hybrids Synthesized by Calcinations of Feâ€based MOF/Melamine Mixtures for Boosting Visible‣ight Photocatalytic Tetracycline Degradation. ChemistrySelect, 2020, 5, 3303-3311.	1.5	11
2329	Inartificial Two-Dimensional Ge ₄ Se ₉ Janus Structures with Appropriate Direct Band Gaps and Intrinsic Polarization Boosted Charge Separation for Photocatalytic Water Splitting. Journal of Physical Chemistry Letters, 2020, 11, 3095-3102.	4.6	26
2330	Structure of Photoluminescence Spectra of Oxygen-Doped Graphitic Carbon Nitride. Journal of Applied Spectroscopy, 2020, 87, 9-14.	0.7	9
2331	g-C ₃ N ₄ /WTe ₂ Hybrid Electrocatalyst for Efficient Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2020, 124, 8726-8735.	3.1	14
2332	Highly Efficient Solar atalytic Degradation of Reactive Black 5 Dye Using Mesoporous Plasmonic Ag/g ₃ N ₄ Nanocomposites. ChemistrySelect, 2020, 5, 2735-2745.	1.5	23
2333	Fabrication of metal-free PTET-T-COOH/g-C3N4 heterostructure for enhancing photocatalytic activity. RSC Advances, 2020, 10, 9116-9125.	3.6	5
2334	Ultrathin 2D Graphitic Carbon Nitride on Metal Films: Underpotential Sodium Deposition in Adlayers for Sodium″on Batteries. Angewandte Chemie, 2020, 132, 9152-9158.	2.0	10
2335	n–p BiOCl@g ₃ N ₄ Heterostructure with Richâ€oxygen Vacancies for Photodegradation of Carbamazepine. ChemistrySelect, 2020, 5, 2767-2777.	1.5	25
2336	Carbon nitride as photocatalyst in organic selective transformations. , 2020, , 437-455.		2
2337	Post-redox engineering electron configurations of atomic thick C3N4 nanosheets for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 270, 118855.	20.2	40
2338	Interfacial coupling of amorphous cobalt boride with g-C3N4 nanosheets for superior oxygen evolution reaction. Materials Letters, 2020, 268, 127593.	2.6	14
2339	Heterogeneous photoredox flow chemistry for the scalable organosynthesis of fine chemicals. Nature Communications, 2020, 11, 1239.	12.8	75

ARTICLE IF CITATIONS Covalent organic frameworks: emerging high-performance platforms for efficient photocatalytic 2340 10.3 190 applications. Journal of Materials Chemistry A, 2020, 8, 6957-6983. Recent Developments of Advanced Ti3+-Self-Doped TiO2 for Efficient Visible-Light-Driven 2341 3.5 Photocatalysis. Catalysts, 2020, 10, 679. Controlled coassembly of dumbbell-like Au nanoparticles with a porous nitrogen doped carbon 2342 10 5.4aerogel for cancer cell H2O2 detection. Analytica Chimica Acta, 2020, 1126, 100-105. Photocatalytic membrane filtration and its advantages over conventional approaches in the 2343 treatment of oily wastewater: A review. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2533. TiO2 nanosheet/ultra-thin layer g-C3N4 core-shell structure: Bifunctional visible-light photocatalyst 2344 for H2 evolution and removal of organic pollutants from water. Applied Surface Science, 2020, 528, 6.1 22 146930. Co, Ni-based nanoparticles supported on graphitic carbon nitride nanosheets as catalysts for hydrogen generation from the hydrolysis of ammonia borane under broad-spectrum light irradiation. 2345 7.1 International Journal of Hydrogen Energy, 2020, 45, 21273-21286. Graphitic carbon nitride for efficient fluorometric quenching bioassay of hydrogen peroxide: Effect 2346 of structure on Properties. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 3.9 2 112731. A facile Pt-doped g-C3N4 photocatalytic biosensor for visual detection of superoxide dismutase in 2347 7.8 serum samples. Sensors and Actuators B: Chemical, 2020, 318, 128238. Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing 2348 34.4 427 overall water splitting. Nature Catalysis, 2020, 3, 649-655. The presence and effect of oxygen in graphitic carbon nitride synthetized in air and nitrogen 2349 6.1 atmosphere. Applied Surface Science, 2020, 529, 147086. Efficiently enhanced nitrogen fixation performance of g-C3N4 nanosheets by decorating Ni3V2O8 2350 4.8 30 nanoparticles under visible-light irradiation. Ceramics International, 2020, 46, 24472-24482. Two-Dimensional Layered Materials: High-Efficient Electrocatalysts for Hydrogen Evolution Reaction. 5.0 ACS Applied Nano Materials, 2020, 3, 6270-6296. Fabrication of novel g-C₃N₄ based MoS₂ and Bi₂O₃ nanorod embedded ternary nanocomposites for superior 2352 2.8 46 photocatalytic performance and destruction of bacteria. New Journal of Chemistry, 2020, 44, . 13182-131́94 Excitonic Effects in Polymeric Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 13.8 94 22828-22839 An efficient visible-light photocatalyst for CO2 reduction fabricated by cobalt porphyrin and 2354 10.4 52 graphitic carbon nitride via covalent bonding. Nano Research, 2020, 13, 2665-2672. A Single Cu-Center Containing Enzyme-Mimic Enabling Full Photosynthesis under CO₂ Reduction. ACS Nano, 2020, 14, 8584-8593. 14.6 166 Anchoring Bi4O5I2 and AgI nanoparticles over g-C3N4 nanosheets: Impressive visible-light-induced 2356 photocatalysts in elimination of hazardous contaminates by a cascade mechanism. Advanced Powder 4.1 36 Technologý, 2020, 31, 2618-2628. Two-dimensional materials for photocatalytic water splitting and CO2 reduction., 2020, , 173-227.

#	Article	IF	CITATIONS
2358	Semi-crystalline graphitic carbon nitride with midgap states for efficient photocatalytic nitrogen fixation. Applied Surface Science, 2020, 529, 147088.	6.1	16
2359	Mo-doped carbon nitride homojunction to promote oxygen activation for enhanced photocatalytic performance. Chemical Engineering Journal, 2020, 401, 126028.	12.7	23
2360	Dual Functions of O-Atoms in the g-C ₃ N ₄ /BO _{0.2} N _{0.8} Interface: Oriented Charge Flow In-Plane and Separation within the Interface To Collectively Promote Photocatalytic Molecular Oxygen Activation. ACS Applied Materials & amp; Interfaces, 2020, 12, 34432-34440.	8.0	22
2361	Enhancement of organic contaminants degradation at low dosages of Fe(III) and H2O2 in g-C3N4 promoted Fe(III)/H2O2 system under visible light irradiation. Separation and Purification Technology, 2020, 251, 117333.	7.9	17
2362	Polyimide-based photocatalysts: rational design for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 14441-14462.	10.3	38
2363	A Promoted Charge Separation/Transfer System from Cu Single Atoms and C ₃ N ₄ Layers for Efficient Photocatalysis. Advanced Materials, 2020, 32, e2003082.	21.0	333
2364	Controlled preparation of P-doped g-C3N4 nanosheets for efficient photocatalytic hydrogen production. Chinese Journal of Chemical Engineering, 2020, 28, 2677-2688.	3.5	40
2365	Environmentally Friendly Nonâ€Metal Solar Photocatalyst C ₃ N ₄ for Efficient Nitrogen Fixation as Foliar Fertilizer. ChemistrySelect, 2020, 5, 7720-7727.	1.5	6
2366	Morphology effect on the enhanced photocatalytic activity of potassium doped graphitic carbon nitride microtubes. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112759.	3.9	6
2367	Metal-support interaction for heterogeneous catalysis: from nanoparticles to single atoms. Materials Today Nano, 2020, 12, 100093.	4.6	89
2368	Laser Induced Anchoring of Nickel Oxide Nanoparticles on Polymeric Graphitic Carbon Nitride Sheets Using Pulsed Laser Ablation for Efficient Water Splitting under Visible Light. Nanomaterials, 2020, 10, 1098.	4.1	26
2369	Carbon Dots and [FeFe] Hydrogenase Biohybrid Assemblies for Efficient Light-Driven Hydrogen Evolution. ACS Catalysis, 2020, 10, 9943-9952.	11.2	46
2370	Heterogeneous carbon nitride photocatalyst for C–C bond oxidative cleavage of vicinal diols in aerobic micellar medium. Green Chemistry, 2020, 22, 5042-5049.	9.0	47
2371	Synthesis of Pt supported on mesoporous g-C3N4 modified by ammonium chloride and its efficiently selective hydrogenation of furfural to furfuryl alcohol. Applied Surface Science, 2020, 528, 146983.	6.1	28
2372	One-pot fabrication of porous nitrogen-deficient g-C3N4 with superior photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112729.	3.9	17
2373	Synthesis of hollow donut-like carbon nitride for the visible light-driven highly efficient photocatalytic production of hydrogen and degradation of pollutants. New Journal of Chemistry, 2020, 44, 12247-12255.	2.8	4
2374	Aqueous solution photocatalytic synthesis of <i>p</i> -anisaldehyde by using graphite-like carbon nitride photocatalysts obtained <i>via</i> the hard-templating route. RSC Advances, 2020, 10, 19431-19442.	3.6	12
2375	Graphitic Carbon Nitride Nanomaterials for Multicolor Light-Emitting Diodes and Bioimaging. ACS Applied Nano Materials, 2020, 3, 6798-6805.	5.0	37

#	Article	IF	CITATIONS
2376	The utilization of Fe-doped g-C ₃ N ₄ in a heterogeneous photo-Fenton-like catalytic system: the effect of different parameters and a system mechanism investigation. RSC Advances, 2020, 10, 21876-21886.	3.6	37
2377	A Highâ€Potential Anionâ€Insertion Carbon Cathode for Aqueous Zinc Dualâ€Ion Battery. Advanced Functional Materials, 2020, 30, 2002825.	14.9	64
2378	Z‑scheme SnFe2O4/α-Fe2O3 micro-octahedron with intimated interface for photocatalytic CO2 reduction. Chemical Engineering Journal, 2020, 402, 126193.	12.7	65
2379	Heterogeneous Photocatalysis. Topics in Current Chemistry Collections, 2020, , .	0.5	2
2380	(NH4)4[NiMo6O24H6].5H2O / g-C3N4 materials for selective photo-oxidation of C O and C C bonds. Applied Catalysis B: Environmental, 2020, 278, 119299.	20.2	11
2381	Constructing Z-scheme based BiOI/CdS heterojunction with efficient visible-light photocatalytic dye degradation. Solid State Sciences, 2020, 107, 106350.	3.2	19
2382	Harnessing biological applications of quantum materials: opportunities and precautions. Journal of Materials Chemistry C, 2020, 8, 10498-10525.	5.5	4
2383	Aggregation behavior of graphitic C3N4 nanosheets in aqueous environment: Kinetics and mechanisms. Environmental Pollution, 2020, 263, 114646.	7.5	8
2384	Photo-Fenton degradation assisted by in situ generation of hydrogen peroxide using a carbon nitride photocatalyst. Journal of Water Process Engineering, 2020, 37, 101467.	5.6	21
2385	Facile synthesis and photoelectrochemical properties of novel TiN/C3N4/CdS nanotube core/shell arrays. Chinese Journal of Catalysis, 2020, 41, 1645-1653.	14.0	11
2386	Efficient photocatalytic overall water splitting on metal-free 1D SWCNT/2D ultrathin C3N4 heterojunctions via novel non-resonant plasmonic effect. Applied Catalysis B: Environmental, 2020, 278, 119312.	20.2	89
2387	Fabrication of powder and modular H3PW12O40/Ag3PO4 composites: Novel visible-light photocatalysts for ultra-fast degradation of organic pollutants in water. Applied Catalysis B: Environmental, 2020, 278, 119313.	20.2	48
2388	Excitonic Effects in Polymeric Photocatalysts. Angewandte Chemie, 2020, 132, 23024-23035.	2.0	15
2389	Photocatalytic activity enhanced via surface hybridization. , 2020, 2, 308-349.		68
2390	Ni(acac)2/Mo-MOF-derived difunctional MoNi@MoO2cocatalyst to enhance the photocatalytic H2evolution activity of g-C3N4. Applied Catalysis B: Environmental, 2020, 268, 118739.	20.2	36
2391	One-pot fabrication of sludge-derived magnetic Fe,N-codoped carbon catalysts for peroxymonosulfate-induced elimination of phenolic contaminants. Chemosphere, 2020, 248, 126076.	8.2	27
2392	Effects of intrinsic defects on the photocatalytic water-splitting activities of PtSe2. International Journal of Hydrogen Energy, 2020, 45, 8549-8557.	7.1	19
2393	Hexagonal g-C3N4 nanotubes with Pt decorated surface towards enhanced photo- and electro-chemistry performance. Journal of Alloys and Compounds, 2020, 826, 154145.	5.5	39

#	Article	IF	CITATIONS
2394	Interplay between Mesocrystals of CaTiO ₃ and Edge Sulfur Atom Enriched MoS ₂ on Reduced Graphene Oxide Nanosheets: Enhanced Photocatalytic Performance under Sunlight Irradiation. ChemPhotoChem, 2020, 4, 427-444.	3.0	72
2395	Distinctive Improved Synthesis and Application Extensions Graphdiyne for Efficient Photocatalytic Hydrogen Evolution. ChemCatChem, 2020, 12, 1985-1995.	3.7	60
2396	Simultaneously Tuning Charge Separation and Oxygen Reduction Pathway on Graphitic Carbon Nitride by Polyethylenimine for Boosted Photocatalytic Hydrogen Peroxide Production. ACS Catalysis, 2020, 10, 3697-3706.	11.2	275
2397	Porous honeycomb-like NiSe ₂ /red phosphorus heteroarchitectures for photocatalytic hydrogen production. Nanoscale, 2020, 12, 5636-5651.	5.6	39
2398	Influence of C3N4 Precursors on Photoelectrochemical Behavior of TiO2/C3N4 Photoanode for Solar Water Oxidation. Energies, 2020, 13, 974.	3.1	18
2399	Metal-free photocatalysts for hydrogen evolution. Chemical Society Reviews, 2020, 49, 1887-1931.	38.1	374
2400	One-pot synthesis of isotype heterojunction g-C3N4-MU photocatalyst for effective tetracycline hydrochloride antibiotic and reactive orange 16 dye removal. Advanced Powder Technology, 2020, 31, 1891-1902.	4.1	43
2401	Facile Solvothermal Synthesis of Black Phosphorus Nanosheets from Red Phosphorus for Efficient Photocatalytic Hydrogen Evolution. European Journal of Inorganic Chemistry, 2020, 2020, 773-779.	2.0	31
2402	0D/2D spatial structure of Cd _x Zn _{1â°'x} S/Ni-MOF-74 for efficient photocatalytic hydrogen evolution. Dalton Transactions, 2020, 49, 5143-5156.	3.3	63
2403	Dynamism of Supramolecular DNA/RNA Nanoarchitectonics: From Interlocked Structures to Molecular Machines. Bulletin of the Chemical Society of Japan, 2020, 93, 581-603.	3.2	75
2404	Bismuthiolâ€Mediated Synthesis of Ordered Carbon Nitride Nanosheets with Enhanced Photocatalytic Performance. Solar Rrl, 2020, 4, 2000017.	5.8	9
2405	Surface oxygen vacancies promoted photodegradation of benzene on TiO2 film. Applied Surface Science, 2020, 511, 145597.	6.1	60
2406	Multifunctional Edge-Activated Carbon Nitride Nanosheet-Wrapped Polydimethylsiloxane Sponge Skeleton for Selective Oil Absorption and Photocatalysis. ACS Omega, 2020, 5, 4181-4190.	3.5	30
2407	Realizing synergistic effect of electronic modulation and nanostructure engineering over graphitic carbon nitride for highly efficient visible-light H2 production coupled with benzyl alcohol oxidation. Applied Catalysis B: Environmental, 2020, 269, 118772.	20.2	66
2408	Corrugation Matters: Structure Models of Single Layer Heptazine-Based Graphitic Carbon Nitride from First-Principles Studies. Journal of Physical Chemistry C, 2020, 124, 4644-4651.	3.1	19
2409	Unique nitrogen-deficient carbon nitride homojunction prepared by a facile inserting-removing strategy as an efficient photocatalyst for visible light-driven hydrogen evolution. Applied Catalysis B: Environmental, 2020, 269, 118778.	20.2	56
2410	Triazine functionalized fully conjugated covalent organic framework for efficient photocatalysis. Applied Catalysis B: Environmental, 2020, 269, 118799.	20.2	117
2411	Peroxymonosulfate enhancing visible light photocatalytic degradation of bezafibrate by Pd/g-C3N4 catalysts: The role of sulfate radicals and hydroxyl radicals. Chemical Engineering Journal, 2020, 390, 124532	12.7	85

#	Article	IF	CITATIONS
2412	Synergistic effect and mechanism of catalytic degradation toward antibiotic contaminants by amorphous goethite nanoparticles decorated graphitic carbon nitride. Chemical Engineering Journal, 2020, 390, 124551.	12.7	45
2413	Non-precious molybdenum nanospheres as a novel cocatalyst for full-spectrum-driven photocatalytic CO2 reforming to CH4. Journal of Hazardous Materials, 2020, 393, 122324.	12.4	39
2414	Theoretical design and experimental investigation on highly selective Pd particles decorated C3N4 for safe photocatalytic NO purification. Journal of Hazardous Materials, 2020, 392, 122357.	12.4	81
2415	Conductivity tuning of charged triazine and heptazine graphitic carbon nitride (g-C3N4) quantum dots via nonmetal (B, O, S, P) doping: DFT calculations. Journal of Physics and Chemistry of Solids, 2020, 141, 109422.	4.0	46
2416	Hydrazoneâ€Linked Heptazine Polymeric Carbon Nitrides for Synergistic Visibleâ€Lightâ€Driven Catalysis. Chemistry - A European Journal, 2020, 26, 7358-7364.	3.3	20
2417	Heterogeneous Photocatalysis in Organic Synthesis. ChemPhotoChem, 2020, 4, 456-475.	3.0	147
2418	Novel all-solid-state Z-scheme SnO2/Pt/In2O3 photocatalyst with boosted photocatalytic performance on water splitting and 2,4-dichlorophenol degradation under visible light. Chemical Engineering Journal, 2020, 390, 124518.	12.7	98
2419	Hydrophilic hierarchical carbon with TiO2 nanofiber membrane for high separation efficiency of dye and oil-water emulsion. Separation and Purification Technology, 2020, 241, 116709.	7.9	86
2420	Plasmonic enhanced photoelectrochemical aptasensor with D-A F8BT/g-C3N4 heterojunction and AuNPs on a 3D-printed device. Sensors and Actuators B: Chemical, 2020, 310, 127874.	7.8	78
2421	Hybrid Carbon Dioxide Reduction Photocatalysts Consisting of Macrocyclic Cobalt(III) Complexes Deposited on Semiconductor Surfaces. ChemPhotoChem, 2020, 4, 420-426.	3.0	8
2422	Metal organic framework derived heteroatoms and cyano (C N) group co-decorated porous g-C3N4 nanosheets for improved photocatalytic H2 evolution and uranium(VI) reduction. Journal of Colloid and Interface Science, 2020, 570, 125-134.	9.4	44
2423	Embedded carbon in a carbon nitride hollow sphere for enhanced charge separation and photocatalytic water splitting. Nanoscale, 2020, 12, 7339-7346.	5.6	19
2424	The nonmetal modulation of composition and morphology of g-C3N4-based photocatalysts. Applied Catalysis B: Environmental, 2020, 269, 118828.	20.2	237
2425	Bio-based hyperbranched polymer-supported oxygeneous graphitic-carbon nitride dot as heterogeneous metal-free solar light photocatalyst for oxidation and reduction reactions. Applied Surface Science, 2020, 514, 145909.	6.1	8
2426	Synthesis of three-component C3N4/rGO/C-TiO2 photocatalyst with enhanced visible-light responsive photocatalytic deNO activity. Chemical Engineering Journal, 2020, 390, 124616.	12.7	42
2427	Automobile exhaust purification over g-C3N4Âcatalyst material. Materials Chemistry and Physics, 2020, 247, 122867.	4.0	5
2428	Control of Excited-State Proton-Coupled Electron Transfer by Ultrafast Pump-Push-Probe Spectroscopy in Heptazine-Phenol Complexes: Implications for Photochemical Water Oxidation. Journal of Physical Chemistry C, 2020, 124, 9151-9160.	3.1	18
2429	Development of Photoactive <i>g</i> -C ₃ N ₄ /Poly(vinyl alcohol) Composite Hydrogel Films with Antimicrobial and Antibiofilm Activity. ACS Applied Bio Materials, 2020, 3, 1681-1689.	4.6	20

#	Δρτιςι ε	IF	CITATIONS
" 2430	Novel P-n Li2SnO3/g-C3N4 Heterojunction With Enhanced Visible Light Photocatalytic Efficiency Toward Rhodamine B Degradation. Frontiers in Chemistry, 2020, 8, 75.	3.6	17
2431	Visibleâ€lightâ€stimulated Alkalisâ€ŧriggered Platinum Cocatalyst with Electron Deficient Interface for Hydrogen Evolution. ChemCatChem, 2020, 12, 2189-2193.	3.7	4
2432	Preparation of nitrogen-containing carbon using a one-step thermal polymerization method for activation of peroxymonosulfate to degrade bisphenol A. Chemosphere, 2020, 248, 126053.	8.2	23
2433	Nano Anatase TiO ₂ Quasi-Core–Shell Homophase Junction Induced by a Ti ³⁺ Concentration Difference for Highly Efficient Hydrogen Evolution. Inorganic Chemistry, 2020, 59, 3330-3339.	4.0	5
2434	Pb(II) deposition-reduction-growth onto iron nanoparticles induced by graphitic carbon nitride. Chemical Engineering Journal, 2020, 387, 124088.	12.7	19
2435	The application of perovskite materials in solar water splitting. Journal of Semiconductors, 2020, 41, 011701.	3.7	46
2436	Effect of Graphene Carbon Nitride on Ultraviolet-Curing Coatings. Materials, 2020, 13, 153.	2.9	4
2437	Cryo-induced closely bonded heterostructure for effective CO2 conversion: The case of ultrathin BP nanosheets/g-C3N4. Journal of Energy Chemistry, 2020, 49, 89-95.	12.9	49
2438	A curly architectured graphitic carbon nitride (g-C ₃ N ₄) towards efficient visible-light photocatalytic H ₂ evolution. Inorganic Chemistry Frontiers, 2020, 7, 347-355.	6.0	71
2439	Facile design of F-doped TiO2/g-C3N4 heterojunction for enhanced visible-light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2020, 31, 3681-3694.	2.2	5
2440	A high sensitive single luminophore ratiometric electrochemiluminescence immunosensor in combined with anodic stripping voltammetry. Electrochimica Acta, 2020, 336, 135725.	5.2	16
2441	Sugar-assisted mechanochemical exfoliation of graphitic carbon nitride for enhanced visible-light photocatalytic performance. International Journal of Hydrogen Energy, 2020, 45, 8444-8455.	7.1	14
2442	Isolated iron sites embedded in graphitic carbon nitride (g-C3N4) for efficient oxidative desulfurization. Applied Catalysis B: Environmental, 2020, 267, 118663.	20.2	86
2443	Retinaâ€Inspired Carbon Nitrideâ€Based Photonic Synapses for Selective Detection of UV Light. Advanced Materials, 2020, 32, e1906899.	21.0	222
2444	Na2Fe2Ti6O16 as a hybrid co-catalyst on g-C3N4 to enhance the photocatalytic hydrogen evolution under visible light illumination. Applied Surface Science, 2020, 509, 145357.	6.1	9
2445	Facile synthesis of g-C3N4/BiOClxI1-x hybrids with efficient charge separation for visible-light photocatalysis. Ceramics International, 2020, 46, 10843-10850.	4.8	20
2446	Designing a 0D/2D S‣cheme Heterojunction over Polymeric Carbon Nitride for Visible‣ight Photocatalytic Inactivation of Bacteria. Angewandte Chemie, 2020, 132, 5256-5263.	2.0	14
2447	Construction of Z-scheme heterojunction of PANI-Ag-CN sandwich structure with efficient photocatalytic hydrogen evolution. Applied Surface Science, 2020, 509, 145296.	6.1	14

#	Article	IF	CITATIONS
2448	g-C3N4:Sn-doped In2O3 (ITO) nanocomposite for photoelectrochemical reduction of water using solar light. Journal of Solid State Chemistry, 2020, 285, 121187.	2.9	17
2449	Quantum-chemical calculations on graphitic carbon nitride (g-C3N4) single-layer nanostructures: polymeric slab vs. quantum dot. Structural Chemistry, 2020, 31, 1137-1148.	2.0	22
2450	Quench-Type Electrochemiluminescence Immunosensor Based on Resonance Energy Transfer from Carbon Nanotubes and Au-Nanoparticles-Enhanced <i>g</i> -C ₃ N ₄ to CuO@Polydopamine for Procalcitonin Detection. ACS Applied Materials & Interfaces, 2020, 12, 8006-8015.	8.0	65
2451	Uniform Near-Spherical Nanoscale Silver Films for Surface-Enhanced Raman Spectroscopy Sensing. ACS Applied Nano Materials, 2020, 3, 2008-2015.	5.0	4
2452	Post-Synthetic Derivatization of Graphitic Carbon Nitride with Methanesulfonyl Chloride: Synthesis, Characterization and Photocatalysis. Nanomaterials, 2020, 10, 193.	4.1	13
2453	Piezopotential augmented photo- and photoelectro-catalysis with a built-in electric field. Chinese Journal of Catalysis, 2020, 41, 534-549.	14.0	75
2454	Study of intermediate by-products and mechanism of the photocatalytic degradation of ciprofloxacin in water using graphitized carbon nitride nanosheets. Chemosphere, 2020, 247, 125910.	8.2	37
2455	g-C ₃ N ₄ /Uio-66-NH ₂ nanocomposites with enhanced visible light photocatalytic activity for hydrogen evolution and oxidation of amines to imines. New Journal of Chemistry, 2020, 44, 3052-3061.	2.8	40
2456	Large-scale synthesis of crystalline g-C ₃ N ₄ nanosheets and high-temperature H ₂ sieving from assembled films. Science Advances, 2020, 6, eaay9851.	10.3	105
2457	First-principles studies on α-Fe ₂ O ₃ surface slabs and mechanistic elucidation of a g-C ₃ N ₄ /α-Fe ₂ O ₃ heterojunction. Catalysis Science and Technology, 2020, 10, 1376-1384.	4.1	20
2458	Facet-charge-induced coupling dependent interfacial photocharge separation: A case of BiOI/g-C3N4 p-n junction. Applied Catalysis B: Environmental, 2020, 267, 118697.	20.2	202
2459	Recent Advances in Niobium-Based Materials for Photocatalytic Solar Fuel Production. Catalysts, 2020, 10, 126.	3.5	55
2460	lonic Liquid-Assisted Exfoliation of Two-Dimensional Metal–Organic Frameworks for Luminescent Sensing. ACS Sustainable Chemistry and Engineering, 2020, 8, 2167-2175.	6.7	27
2461	A Metalâ€Free Donor–Acceptor Covalent Organic Framework Photocatalyst for Visibleâ€Lightâ€Driven Reduction of CO ₂ with H ₂ O. ChemSusChem, 2020, 13, 1725-1729.	6.8	177
2462	Facile preparation of CuS-g-C3N4/Ag nanocomposite with improved photocatalytic activity for the degradation of rhodamine B. Polyhedron, 2020, 179, 114368.	2.2	23
2463	Covalent-organic framework based Z-scheme heterostructured noble-metal-free photocatalysts for visible-light-driven hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 4334-4340.	10.3	85
2464	Plasmonic metal–semiconductor heterostructures for hot-electron-driven photochemistry. MRS Bulletin, 2020, 45, 37-42.	3.5	14
2465	Ultrathin Graphitic Carbon Nitride Nanosheets for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 1010-1018.	5.0	82

#	Article	IF	CITATIONS
2466	A ratiometric electrochemiluminescence method using a single luminophore of porous g-C ₃ N ₄ for the ultrasensitive determination of alpha fetoprotein. Analyst, The, 2020, 145, 2389-2397.	3.5	15
2467	Designing a 0D/2D Sâ€Scheme Heterojunction over Polymeric Carbon Nitride for Visibleâ€Light Photocatalytic Inactivation of Bacteria. Angewandte Chemie - International Edition, 2020, 59, 5218-5225.	13.8	822
2468	Design of C ₃ N ₄ â€Based Hybrid Heterojunctions for Enhanced Photocatalytic Hydrogen Production Activity. ChemSusChem, 2020, 13, 876-881.	6.8	26
2469	Recent developments in MnO2-based photocatalysts for organic dye removal: a review. Environmental Science and Pollution Research, 2020, 27, 5759-5778.	5.3	113
2470	Construction of phosphorus-doped carbon nitride/phosphorus and sulfur co-doped carbon nitride isotype heterojunction and their enhanced photoactivity. Journal of Colloid and Interface Science, 2020, 566, 495-504.	9.4	33
2471	Enhanced visible-light-driven photoelectrochemical and photocatalytic performance of Au-SnO2 quantum dot-anchored g-C3N4 nanosheets. Separation and Purification Technology, 2020, 240, 116652.	7.9	53
2472	Recyclable Cu@C ₃ N ₄ -Catalyzed Hydroxylation of Aryl Boronic Acids in Water under Visible Light: Synthesis of Phenols under Ambient Conditions and Room Temperature. ACS Sustainable Chemistry and Engineering, 2020, 8, 2682-2687.	6.7	57
2473	Nanoarchitectonics from Atom to Life. Chemistry - an Asian Journal, 2020, 15, 718-728.	3.3	66
2474	Improvement of surge current performances of ZnO varistor ceramics via C3N4-doping. Journal of the European Ceramic Society, 2020, 40, 2390-2395.	5.7	29
2475	Facile synthesis of iron and cerium co-doped g-C3N4 with synergistic effect to enhance visible-light photocatalytic performance. Materials Research Bulletin, 2020, 125, 110812.	5.2	36
2476	Sulfonated graphitic carbon nitride nanosheets as proton conductor for constructing long-range ionic channels proton exchange membrane. Journal of Membrane Science, 2020, 601, 117908.	8.2	37
2477	Efficient Photocatalytic Degradation and Adsorption of Tetracycline over Type-II Heterojunctions Consisting of ZnO Nanorods and K-Doped Exfoliated g-C ₃ N ₄ Nanosheets. Industrial & Engineering Chemistry Research, 2020, 59, 2860-2873.	3.7	69
2478	Polymer Brushes on Graphitic Carbon Nitride for Patterning and as a SERS Active Sensing Layer via Incorporated Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 9797-9805.	8.0	29
2479	Tunable Conjugated Organoborane Oligomers for Visible-Light-Driven Hydrogen Evolution. ACS Energy Letters, 2020, 5, 669-675.	17.4	33
2480	Enhanced Visible-Light Driven Photocatalytic Performances Over LaFeO3/NiO Modified Porous g-C3N4 Nanosheets. Nano, 2020, 15, 2050010.	1.0	3
2481	Importance of ZnTiO ₃ Phase in ZnTi-Mixed Metal Oxide Photocatalysts Derived from Layered Double Hydroxide. ACS Applied Materials & Interfaces, 2020, 12, 9169-9180.	8.0	41
2482	B–O Bonds in Ultrathin Boron Nitride Nanosheets to Promote Photocatalytic Carbon Dioxide Conversion. ACS Applied Materials & Interfaces, 2020, 12, 9935-9943.	8.0	76
2483	g ₃ N ₄ /Co Nanohybrids for Ultraâ€sensitive Simultaneous Detection of Uric Acid and Dopamine. ChemElectroChem, 2020, 7, 1373-1377.	3.4	29

#	Article	IF	CITATIONS
2484	Recovery Behavior of the Luminescence Peak from Graphitic Carbon Nitride as a Function of the Synthesis Temperature. Crystal Research and Technology, 2020, 55, 1900163.	1.3	14
2485	Synthesis of novel ternary g-C3N4/SiC/C-Dots photocatalysts and their visible-light-induced activities in removal of various contaminants. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 392, 112431.	3.9	43
2486	Controllable synthesis of Eu ³⁺ â€doped Y ₂ O ₃ nanocrystal/g ₃ N ₄ composites with tunable fluorescence. Journal of the American Ceramic Society, 2020, 103, 4411-4419.	3.8	6
2487	In-situ fabrication SnO2/SnS2 heterostructure for boosting the photocatalytic degradation of pollutants. Chinese Journal of Catalysis, 2020, 41, 1554-1563.	14.0	24
2488	Nanoparticle metal Ni cocatalyst on NiTe2 microsphere for improved photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 13340-13352.	7.1	27
2489	2D Titanium/Niobium Metal Oxideâ€Based Materials for Photocatalytic Application. Solar Rrl, 2020, 4, 2000070.	5.8	34
2490	Density functional theory based studies on the adsorption of rare-earth ions from hydrated nitrate salt solutions on g-C3N4 monolayer surface. Journal of Molecular Graphics and Modelling, 2020, 97, 107577.	2.4	16
2491	Noble Metal-Free TiO2-Coated Carbon Nitride Layers for Enhanced Visible Light-Driven Photocatalysis. Nanomaterials, 2020, 10, 805.	4.1	11
2492	Preparation of flameâ€retardant polyamide 6 by incorporating MgO combined with g 3 N 4. Polymers for Advanced Technologies, 2020, 31, 1963-1971.	3.2	14
2493	Endowing chloroplasts with artificial "cell walls―using metal–organic frameworks. Nanoscale, 2020, 12, 11582-11592.	5.6	7
2494	Exploring recent advances in silver halides and graphitic carbon nitride-based photocatalyst for energy and environmental applications. Arabian Journal of Chemistry, 2020, 13, 8271-8300.	4.9	33
2495	Boosting near-infrared-driven photocatalytic H2 evolution using protoporphyrin-sensitized g-C3N4. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 396, 112517.	3.9	18
2496	<i>In Situ</i> Formation of Interfacial Defects between Co-Based Spinel/Carbon Nitride Hybrids for Efficient CO ₂ Photoreduction. ACS Applied Energy Materials, 2020, 3, 5083-5094.	5.1	20
2497	Synthesis of Biochar-Supported K-doped g-C3N4 Photocatalyst for Enhancing the Polycyclic Aromatic Hydrocarbon Degradation Activity. International Journal of Environmental Research and Public Health, 2020, 17, 2065.	2.6	22
2498	COFs-based Porous Materials for Photocatalytic Applications. Chinese Journal of Polymer Science (English Edition), 2020, 38, 673-684.	3.8	31
2499	Plasmon-sensitized TiO2 nanomaterials as visible light photocatalysts. , 2020, , 143-174.		1
2500	Promoting visible-light photocatalytic activities for carbon nitride based 0D/2D/2D hybrid system: Beyond the conventional 4-electron mechanism. Applied Catalysis B: Environmental, 2020, 270, 118870.	20.2	107
2501	Theoretical and experimental study of full spectrum response Z-scheme 0D/2D Ag6Si2O7/CN photocatalyst with enhanced photocatalytic activities. Applied Surface Science, 2020, 514, 145963.	6.1	22

#	Article	IF	CITATIONS
2502	Alkali-assisted hydrothermal preparation of g-C3N4/rGO nanocomposites with highly enhanced photocatalytic NOx removal activity. Applied Surface Science, 2020, 521, 146213.	6.1	45
2503	Two-dimensional/two-dimensional Z-scheme photocatalyst of graphitic carbon nitride/bismuth vanadate for visible-light-driven photocatalytic synthesis of imines. Ceramics International, 2020, 46, 16157-16165.	4.8	50
2504	Embedding few-layer Ti3C2Tx into alkalized g-C3N4 nanosheets for efficient photocatalytic degradation. Journal of Colloid and Interface Science, 2020, 571, 297-306.	9.4	71
2505	A review on TiO2/g-C3N4 visible-light- responsive photocatalysts for sustainable energy generation and environmental remediation. Journal of Environmental Chemical Engineering, 2020, 8, 103896.	6.7	227
2506	Chlorophyllin sensitized carbon nitride scaffolds for photocatalytic application. Materials Today Communications, 2020, 24, 101119.	1.9	2
2507	Energy-transfer-mediated oxygen activation in carbonyl functionalized carbon nitride nanosheets for high-efficient photocatalytic water disinfection and organic pollutants degradation. Water Research, 2020, 177, 115798.	11.3	68
2508	Boosting Photocatalytic CO ₂ Reduction Efficiency by Heterostructures of NH ₂ -MIL-101(Fe)/g-C ₃ N ₄ . ACS Applied Energy Materials, 2020, 3, 3946-3954.	5.1	125
2509	Functional gas sensing nanomaterials: A panoramic view. Applied Physics Reviews, 2020, 7, .	11.3	295
2510	From photosynthesis to photocatalysis: Dual catalytic oxidation/reduction in one system. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8672-8673.	7.1	3
2511	Revisiting the Limiting Factors for Overall Waterâ€Splitting on Organic Photocatalysts. Angewandte Chemie, 2020, 132, 16418-16433.	2.0	9
2512	Revisiting the Limiting Factors for Overall Waterâ€6plitting on Organic Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 16278-16293.	13.8	72
2513	Enhancing aqueous pollutant photodegradation <i>via</i> a Fermi level matched Z-scheme BiOI/Pt/g-C ₃ N ₄ photocatalyst: unobstructed photogenerated charge behavior and degradation pathway exploration. Catalysis Science and Technology, 2020, 10, 3324-3333.	4.1	33
2514	Activation of graphitic carbon nitride by solvent-mediated supramolecular assembly for enhanced hydrogen evolution. Applied Surface Science, 2020, 525, 146444.	6.1	20
2515	Recent advances in g-C3N4-based heterojunction photocatalysts. Journal of Materials Science and Technology, 2020, 56, 1-17.	10.7	297
2516	Hierarchical graphitic carbon nitride-ZnO nanocomposite: Viable reinforcement for the improved corrosion resistant behavior of organic coatings. Materials Chemistry and Physics, 2020, 251, 122987.	4.0	26
2517	Excellent Photocatalytic Efficiency of t-ZrO2/g-C3N4 Photocatalyst for Pollutants Degradation: Experiment and theory. Solid State Sciences, 2020, 104, 106202.	3.2	7
2518	Metal Ion-Mediated Potential-Resolved Ratiometric Electrochemiluminescence Bioassay for Efficient Determination of miR-133a in Early Diagnosis of Acute Myocardial Infarction. Analytical Chemistry, 2020, 92, 7062-7070.	6.5	55
2519	Multi-component design and in-situ synthesis of visible-light-driven SnO2/g-C3N4/diatomite composite for high-efficient photoreduction of Cr(VI) with the aid of citric acid. Journal of Hazardous Materials, 2020, 396, 122694.	12.4	74

#	Article	IF	CITATIONS
2520	Chemisorptionâ€Induced and Plasmonâ€Promoted Photofixation of Nitrogen on Goldâ€Loaded Carbon Nitride Nanosheets. ChemSusChem, 2020, 13, 3455-3461.	6.8	22
2521	Photochemical transformation of C3N4 under UV irradiation: Implications for environmental fate and photocatalytic activity. Journal of Hazardous Materials, 2020, 394, 122557.	12.4	15
2522	Highly Dispersed Nanocomposite of AgBr in g-C ₃ N ₄ Matrix Exhibiting Efficient Antibacterial Effect on Drought-Resistant <i>Pseudomonas putida</i> under Dark and Light Conditions. ACS Applied Materials & Interfaces, 2020, 12, 21481-21493.	8.0	40
2523	Sulfate modified g-C ₃ N ₄ with enhanced photocatalytic activity towards hydrogen evolution: the role of sulfate in photocatalysis. Physical Chemistry Chemical Physics, 2020, 22, 10116-10122.	2.8	13
2524	Fabrication and Applications of 3D Nanoarchitectures for Advanced Electrocatalysts and Sensors. Advanced Materials, 2020, 32, e1907500.	21.0	17
2525	Hydrophilic Conjugated Materials for Photocatalytic Hydrogen Evolution. Chemistry - an Asian Journal, 2020, 15, 1780-1790.	3.3	53
2526	Maleic hydrazide-based molecule doping in three-dimensional lettuce-like graphite carbon nitride towards highly efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 272, 119009.	20.2	37
2527	Bridging effect of Co heteroatom between g-C3N4 and Pt NPs for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 394, 124964.	12.7	40
2528	Engineering two-dimensional nanomaterials to enable structure-activity relationship studies in nanosafety research. NanoImpact, 2020, 18, 100226.	4.5	11
2529	Gas exfoliation of graphitic carbon nitride to improve the photocatalytic hydrogen evolution of metal-free 2D/2D g-C3N4/graphdiyne heterojunction. Journal of Alloys and Compounds, 2020, 833, 155054.	5.5	51
2530	Adsorption and photocatalytic degradation of aqueous methylene blue using nanoporous carbon nitride. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 396, 112533.	3.9	20
2531	Studying the basic characteristics and photocatalytic properties of graphitic carbon nitride prepared from the desulfurized waste liquid secondary salt component. Optical Materials, 2020, 103, 109839.	3.6	2
2532	Molecular Design of Heptazine-Based Photocatalysts: Effect of Substituents on Photocatalytic Efficiency and Photostability. Journal of Physical Chemistry A, 2020, 124, 3698-3710.	2.5	20
2533	Energy Storage Mechanisms in High-Capacity Graphitic C ₃ N ₄ Cathodes for Al-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 10288-10297.	3.1	16
2534	Embedding Sodium Ions in Graphitic Carbon Nitride Vacancies for Visible Light Photocatalytic H2 Evolution. ACS Applied Nano Materials, 2020, 3, 4663-4669.	5.0	20
2535	The synthesis of interface-modulated ultrathin Ni(<scp>ii</scp>) MOF/g-C ₃ N ₄ heterojunctions as efficient photocatalysts for CO ₂ reduction. Nanoscale, 2020, 12, 10010-10018.	5.6	64
2536	A bottom-up acidification strategy engineered ultrathin g-C3N4 nanosheets towards boosting photocatalytic hydrogen evolution. Carbon, 2020, 163, 234-243.	10.3	81
2537	Interfacial self-assembly of carbon nitride-based nanocomposites with zinc terpyridyl coordination polymers for photocurrent generation and the photocatalytic degradation of organic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 596, 124702	4.7	10

#	Article	IF	CITATIONS
2538	Graphitic carbon nitride-based photocatalysts: Toward efficient organic transformation for value-added chemicals production. Molecular Catalysis, 2020, 488, 110902.	2.0	245
2539	Efficient Photocatalytic Hydrogen Evolution and CO ₂ Reduction: Enhanced Light Absorption, Charge Separation, and Hydrophilicity by Tailoring Terminal and Linker Units in g-C ₃ N ₄ . ACS Applied Materials & Interfaces, 2020, 12, 19607-19615.	8.0	40
2540	Recent developments of doped g-C ₃ N ₄ photocatalysts for the degradation of organic pollutants. Critical Reviews in Environmental Science and Technology, 2021, 51, 751-790.	12.8	346
2541	Self-assembled synthesis of oxygen-doped g-C3N4 nanotubes in enhancement of visible-light photocatalytic hydrogen. Journal of Energy Chemistry, 2021, 54, 36-44.	12.9	111
2542	An overview on g-C3N4 as a robust photocatalyst towards the sustainable generation of H2 energy. Materials Today: Proceedings, 2021, 35, 175-178.	1.8	11
2543	Coupling of MoSe2 and graphitic carbon nitride (g-C3N4) by facile hydrothermal route for enhanced visible-light photocatalytic properties. Materials Today: Proceedings, 2021, 36, 679-688.	1.8	2
2544	A new trick on an old support: Zr in situ defects-created carbon nitride for efficient electrochemical nitrogen fixation. Journal of Energy Chemistry, 2021, 53, 109-115.	12.9	14
2545	Z-scheme N-doped K4Nb6O17/g-C3N4 heterojunction with superior visible-light-driven photocatalytic activity for organic pollutant removal and hydrogen production. Chinese Journal of Catalysis, 2021, 42, 164-174.	14.0	99
2546	In situ construction of protonated g-C3N4/Ti3C2 MXene Schottky heterojunctions for efficient photocatalytic hydrogen production. Chinese Journal of Catalysis, 2021, 42, 107-114.	14.0	154
2547	Synthesis of carbon nitride in moist environments: A defect engineering strategy toward superior photocatalytic hydrogen evolution reaction. Journal of Energy Chemistry, 2021, 54, 403-413.	12.9	21
2548	Transparent floatable magnetic alginate sphere used as photocatalysts carrier for improving photocatalytic efficiency and recycling convenience. Carbohydrate Polymers, 2021, 254, 117281.	10.2	20
2549	DFT-Guided Design and Fabrication of Carbon-Nitride-Based Materials for Energy Storage Devices: A Review. Nano-Micro Letters, 2021, 13, 13.	27.0	91
2550	Polymer photocatalysts for solar-to-chemical energy conversion. Nature Reviews Materials, 2021, 6, 168-190.	48.7	361
2551	A first-principles investigation of Janus MoSSe as a catalyst for photocatalytic water-splitting. Applied Surface Science, 2021, 537, 147919.	6.1	36
2552	Molecular dynamics simulation-directed rational design of nanoporous graphitic carbon nitride membranes for water desalination. Journal of Membrane Science, 2021, 620, 118869.	8.2	30
2553	Conventional and Current Methods of Toxic Metals Removal from Water Using g-C3N4-Based Materials. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1419-1442.	3.7	27
2554	Superior photoelectrocatalytic performance of ternary structural BiVO4/GQD/g-C3N4 heterojunction. Journal of Colloid and Interface Science, 2021, 586, 785-796.	9.4	32
2555	Desulfurization through Photocatalytic Oxidation: A Critical Review. ChemSusChem, 2021, 14, 492-511.	6.8	51

#	Article	IF	Citations
2556	Sustainable production of value-added chemicals and fuels by using a citric acid-modified carbon nitride optical semiconductor. Applied Catalysis A: General, 2021, 609, 117912.	4.3	10
2557	Visible-light overall water splitting on g-C3N4 decorated by subnanometer oxide clusters. Materials Today Physics, 2021, 16, 100312.	6.0	20
2558	Metal-free plasmonic boron phosphide/graphitic carbon nitride with core-shell structure photocatalysts for overall water splitting. Applied Catalysis B: Environmental, 2021, 280, 119410.	20.2	75
2559	Investigations on effect of graphitic carbon nitride loading on the properties and electrochemical performance of g-C3N4/TiO2 nanocomposites for energy storage device applications. Materials Science in Semiconductor Processing, 2021, 121, 105328.	4.0	44
2560	Bioinspired NADH Regeneration Based on Conjugated Photocatalytic Systems. Solar Rrl, 2021, 5, 2000339.	5.8	56
2561	Thiophene-Conjugated Porous C3N4 Nanosheets for Boosted Photocatalytic Nicotinamide Cofactor Regeneration to Facilitate Solar-to-Chemical Enzymatic Reactions. Transactions of Tianjin University, 2021, 27, 42-54.	6.4	10
2562	Z-Scheme 2D/2D α-Fe2O3/g-C3N4 heterojunction for photocatalytic oxidation of nitric oxide. Applied Catalysis B: Environmental, 2021, 280, 119409.	20.2	239
2563	State-of-the-art review of morphological advancements in graphitic carbon nitride (g-CN) for sustainable hydrogen production. Renewable and Sustainable Energy Reviews, 2021, 135, 110235.	16.4	114
2564	Enhanced photoelectrochemical water-splitting performance with a hierarchical heterostructure: Co3O4 nanodots anchored TiO2@P-C3N4 core-shell nanorod arrays. Chemical Engineering Journal, 2021, 404, 126458.	12.7	56
2565	Porous self-floating 3D Ag2O/g-C3N4 hydrogel and photocatalytic inactivation of Microcystis aeruginosa under visible light. Chemical Engineering Journal, 2021, 404, 126509.	12.7	60
2566	Graphitic carbon nitride (g-C3N4)-based nanostructured materials for photodynamic inactivation: Synthesis, efficacy and mechanism. Chemical Engineering Journal, 2021, 404, 126528.	12.7	61
2567	CuO nanoparticles doping recovered the photocatalytic antialgal activity of graphitic carbon nitride. Journal of Hazardous Materials, 2021, 403, 123621.	12.4	35
2568	Sulfur promoted n-ï€* electron transitions in thiophene-doped g-C3N4 for enhanced photocatalytic activity. Chinese Journal of Catalysis, 2021, 42, 450-459.	14.0	87
2569	Acid-induced molecule self-assembly synthesis of Z-scheme WO3/g-C3N4 heterojunctions for robust photocatalysis against phenolic pollutants. Chemical Engineering Journal, 2021, 403, 126354.	12.7	87
2570	Increasing π-electron availability in benzene ring incorporated graphitic carbon nitride for increased photocatalytic hydrogen generation. Journal of Materials Science and Technology, 2021, 65, 164-170.	10.7	26
2571	Perforated two-dimensional nanoarchitectures for next-generation batteries: Recent advances and extensible perspectives. Progress in Materials Science, 2021, 116, 100716.	32.8	30
2572	Carbon-based electrocatalysts for sustainable energy applications. Progress in Materials Science, 2021, 116, 100717.	32.8	216
2573	Ligninâ€Incorporated Supramolecular Copolymerization Yielding gâ€C ₃ N ₄ Nanoarchitectures for Efficient Photocatalytic Hydrogen Evolution. Solar Rrl, 2021, 5, 2000486.	5.8	46

#	Article	IF	CITATIONS
2574	Insideâ€andâ€Out Semiconductor Engineering for CO ₂ Photoreduction: From Recent Advances to New Trends. Small Structures, 2021, 2, 2000061.	12.0	346
2575	Nanoconfined fusion of g-C3N4 within edge-rich vertically oriented graphene hierarchical networks for high-performance photocatalytic hydrogen evolution utilizing superhydrophillic and superaerophobic responses in seawater. Applied Catalysis B: Environmental, 2021, 280, 119461.	20.2	32
2576	Adsorption of CO2, CO, NH3, NO2 and NO on g-C3N5 surface by first-principles calculations. Applied Surface Science, 2021, 537, 147884.	6.1	22
2577	In situ growth of boron doped g-C3N4 on carbon fiber cloth as a recycled flexible film-photocatalyst. Ceramics International, 2021, 47, 1258-1267.	4.8	56
2578	Multi-role graphitic carbon nitride-derived highly porous iron/nitrogen co-doped carbon nanosheets for highly efficient oxygen reduction catalyst. Journal of Colloid and Interface Science, 2021, 582, 1257-1265.	9.4	14
2579	Improved photocathodic protection performance of g-C3N4/rGO/ZnS for 304 stainless steel. Journal of Physics and Chemistry of Solids, 2021, 148, 109672.	4.0	26
2580	Photo-assisted separation of noble-metal-free oxidation and reduction cocatalysts for graphitic carbon nitride nanosheets with efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2021, 280, 119456.	20.2	91
2581	Efficient Visible Light Driven Ammonia Synthesis on Sandwich Structured C3N4/MoS2/Mn3O4 catalyst. Applied Catalysis B: Environmental, 2021, 281, 119476.	20.2	37
2582	Excellent photocatalytic degradation of tetracycline over black anatase-TiO2 under visible light. Chemical Engineering Journal, 2021, 406, 126747.	12.7	184
2583	Amoxicillin photodegradation under visible light catalyzed by metal-free carbon nitride: An investigation of the influence of the structural defects. Journal of Hazardous Materials, 2021, 401, 123713.	12.4	45
2584	Solvothermal synthesis of various C ₃ N ₄ films on FTO substrates and their photocatalytic and sensing applications. Journal of the American Ceramic Society, 2021, 104, 722-732.	3.8	4
2585	Photoexcited single metal atom catalysts for heterogeneous photocatalytic H2O2 production: Pragmatic guidelines for predicting charge separation. Applied Catalysis B: Environmental, 2021, 282, 119589.	20.2	74
2586	Synthesis of g-C3N4 / ZnO heterostructure photocatalyst for enhanced visible degradation of organic dye. Optik, 2021, 229, 165548.	2.9	24
2587	Different inactivation behaviors and mechanisms of representative pathogens (Escherichia coli) Tj ETQq1 1 0.784 visible-light-enabled photocatalytic disinfection. Science of the Total Environment, 2021, 755, 142588.	314 rgBT 8.0	Overlock 1 38
2588	Atomic Nanoarchitectonics for Catalysis. Advanced Materials Interfaces, 2021, 8, 2001395.	3.7	15
2589	Transition Metal and Nitrogen Coâ€Doped Carbonâ€based Electrocatalysts for the Oxygen Reduction Reaction: From Active Site Insights to the Rational Design of Precursors and Structures. ChemSusChem, 2021, 14, 33-55.	6.8	49
2590	Carbon dots anchored high-crystalline g-C3N4 as a metal-free composite photocatalyst for boosted photocatalytic degradation of tetracycline under visible light. Journal of Materials Science, 2021, 56, 2226-2240.	3.7	106
2591	Construction of C3N4/CdS nanojunctions on carbon fiber cloth as a filter-membrane-shaped photocatalyst for degrading flowing wastewater. Journal of Alloys and Compounds, 2021, 851, 156743.	5.5	40
#	Article	IF	CITATIONS
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2592	Boosted photoreduction of diluted CO2 through oxygen vacancy engineering in NiO nanoplatelets. Nano Research, 2021, 14, 730-737.	10.4	49
2593	Degradation of aqueous bisphenol A in the CoCN/Vis/PMS system: Catalyst design, reaction kinetic and mechanism analysis. Chemical Engineering Journal, 2021, 407, 127228.	12.7	68
2594	Self-assembly approach toward polymeric carbon nitrides with regulated heptazine structure and surface groups for improving the photocatalytic performance. Chemical Engineering Journal, 2021, 409, 127370.	12.7	28
2595	Novel ionic liquid modified carbon nitride fabricated by in situ pyrolysis of 1-butyl-3-methylimidazolium cyanamide to improve electronic structure for efficiently degradation of bisphenol A. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125648.	4.7	5
2596	Double photoelectron-transfer mechanism in Agâ [~] AgCl/WO3/g-C3N4 photocatalyst with enhanced visible-light photocatalytic activity for trimethoprim degradation. Journal of Hazardous Materials, 2021, 403, 123964.	12.4	116
2597	The exploration of metal-free catalyst g-C3N4 for NO degradation. Journal of Hazardous Materials, 2021, 404, 124153.	12.4	24
2598	Photocatalytic degradation of different pollutants by the novel gCN-NS/Black-TiO2 heterojunction photocatalyst under visible light: Introducing a photodegradation model and optimization by response surface methodology (RSM). Materials Chemistry and Physics, 2021, 258, 123912.	4.0	60
2599	Bismuth nanoparticles and oxygen vacancies synergistically attired Zn2SnO4 with optimized visible-light-active performance. Nano Energy, 2021, 80, 105415.	16.0	77
2600	Harnessing Photoexcited Redox Centers of Semiconductor Photocatalysts for Advanced Synthetic Chemistry. Solar Rrl, 2021, 5, 2000444.	5.8	11
2601	Vanadium-doped graphitic carbon nitride for multifunctional applications: Photoelectrochemical water splitting and antibacterial activities. Chemosphere, 2021, 264, 128593.	8.2	32
2602	Robust Z-scheme g-C3N4/WO3 heterojunction photocatalysts with morphology control of WO3 for efficient degradation of phenolic pollutants. Separation and Purification Technology, 2021, 255, 117693.	7.9	58
2603	Template-free synthesis of mesh-like graphic carbon nitride with optimized electronic band structure for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 405, 126685.	12.7	28
2604	Tailored synthesis of Ag/AgBr nanostructures coupled activated carbon with intimate interface interaction for enhanced photodegradation of tetracycline. Chemical Engineering Research and Design, 2021, 146, 20-34.	5.6	11
2605	Recent Progress on Carbon Nitride and Its Hybrid Photocatalysts for CO ₂ Reduction. Solar Rrl, 2021, 5, 2000478.	5.8	34
2606	Stepwise carbonization of nanocellulose to N-doped carbons with structural transformation and enhanced peroxymonosulfate activation. Chemical Engineering Journal, 2021, 407, 127185.	12.7	12
2607	Microwave-aided synthesis of BiOI/g-C3N4 composites and their enhanced catalytic activities for Cr(VI) removal. Chemical Physics Letters, 2021, 762, 138143.	2.6	26
2608	Covalent organic framework-based materials for energy applications. Energy and Environmental Science, 2021, 14, 688-728.	30.8	209
2609	Ultrathin sulfur-doped holey carbon nitride nanosheets with superior photocatalytic hydrogen production from water. Applied Catalysis B: Environmental, 2021, 284, 119742.	20.2	88

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#	ARTICLE	IF	CITATIONS
2610	Physicochemical and Engineering Aspects, 2021, 610, 125919.	4.7	5
2611	The pivotal role of defects in fabrication of polymeric carbon nitride homojunctions with enhanced photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2021, 586, 748-757.	9.4	25
2612	FeS2 bridging function to enhance charge transfer between MoS2 and g–C3N4 for efficient hydrogen evolution reaction. Chemical Engineering Journal, 2021, 421, 127804.	12.7	51
2613	Nickelâ€Catalyzed Câ€Heteroatom Crossâ€Coupling Reactions under Mild Conditions via Facilitated Reductive Elimination. Angewandte Chemie - International Edition, 2021, 60, 17810-17831.	13.8	144
2614	On electronegativity of graphitic carbon nitride. Carbon, 2021, 172, 729-732.	10.3	36
2615	Nickelâ€Catalyzed Câ€Heteroatom Crossâ€Coupling Reactions under Mild Conditions via Facilitated Reductive Elimination. Angewandte Chemie, 2021, 133, 17954-17975.	2.0	35
2616	Boron doped C3N4 nanodots/nonmetal element (S, P, F, Br) doped C3N4 nanosheets heterojunction with synergistic effect to boost the photocatalytic hydrogen production performance. Applied Surface Science, 2021, 541, 148558.	6.1	67
2617	Hexagonal boron nitride composite photocatalysts for hydrogen production. Journal of Alloys and Compounds, 2021, 864, 158153.	5.5	26
2618	Soft-template synthesis of sp2-carbon linked polymeric carbon nitride porous nanotubes with enhanced photocatalytic hydrogen evolution. Applied Surface Science, 2021, 541, 148427.	6.1	19
2619	The effect of indium doping on the hydrogen evolution performance of g-C ₃ N ₄ based photocatalysts. New Journal of Chemistry, 2021, 45, 544-550.	2.8	19
2620	A simple approach for controlling the morphology of g-C3N4 nanosheets with enhanced photocatalytic properties. Diamond and Related Materials, 2021, 111, 108214.	3.9	37
2621	Nitrogen vacancy induced in situ g-C3N4 p-n homojunction for boosting visible light-driven hydrogen evolution. Journal of Colloid and Interface Science, 2021, 587, 110-120.	9.4	91
2622	Fabrication of g-C3N4/PW12/TiO2 composite with significantly enhanced photocatalytic performance under visible light. Journal of Alloys and Compounds, 2021, 860, 157924.	5.5	43
2623	Bridging Functional Groups Governing the Charge Transfer Dynamic in an Amorphous Carbon Nitride Allotropic Heterojunction toward Efficient Solar Hydrogen Evolution. Solar Rrl, 2021, 5, .	5.8	12
2624	Transforming g-C3N4 from amphoteric to n-type semiconductor: The important role of p/n type on photoelectrochemical cathodic protection. Journal of Alloys and Compounds, 2021, 851, 156820.	5.5	36
2625	Promoting Photocatalytic Hydrogen Evolution Activity of Graphitic Carbon Nitride with Holeâ€Transfer Agents. ChemSusChem, 2021, 14, 306-312.	6.8	17
2626	Progress in layered cathode and anode nanoarchitectures for charge storage devices: Challenges and future perspective. Energy Storage Materials, 2021, 35, 443-469.	18.0	42
2627	Preparation, structure and application of g-C3N4/BiOX composite photocatalyst. International Journal of Hydrogen Energy, 2021, 46, 1857-1878.	7.1	41

#	Article	IF	CITATIONS
2628	Efficient aerobic oxidation of alcohols to esters by acidified carbon nitride photocatalysts. Journal of Catalysis, 2021, 393, 116-125.	6.2	27
2629	Improved photocatalyst: Elimination of triazine herbicides by novel phosphorus and boron co-doping graphite carbon nitride. Science of the Total Environment, 2021, 757, 143810.	8.0	17
2630	Review on Current Progress of MnO ₂ â€Based Ternary Nanocomposites for Supercapacitor Applications. ChemElectroChem, 2021, 8, 291-336.	3.4	62
2631	Tunable Optical Properties of 2D Materials and Their Applications. Advanced Optical Materials, 2021, 9, 2001313.	7.3	100
2632	Functionally integrated g-C3N4@wood-derived carbon with an orderly interconnected porous structure. Applied Surface Science, 2021, 540, 148440.	6.1	27
2633	Intrinsic defect engineering in graphitic carbon nitride for photocatalytic environmental purification: A review to fill existing knowledge gaps. Chemical Engineering Journal, 2021, 421, 127729.	12.7	67
2634	Efficient visible light driven 2,4,6-triaminopyrimidine modified graphitic carbon nitride for hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 3789-3797.	7.1	7
2635	Employing one-step coupling cold plasma and thermal polymerization approach to construct nitrogen defect-rich carbon nitrides toward efficient visible-light-driven hydrogen generation. International Journal of Hydrogen Energy, 2021, 46, 5158-5168.	7.1	3
2636	Noble metal-free NiCo2S4/CN sheet-on-sheet heterostructure for highly efficient visible-light-driven photocatalytic hydrogen evolution. Journal of Alloys and Compounds, 2021, 853, 157284.	5.5	26
2637	Advanced Functional Electroactive and Photoactive Materials for Monitoring the Environmental Pollutants. Advanced Functional Materials, 2021, 31, 2008227.	14.9	39
2638	Engineering Surface Nâ€Vacancy Defects of Ultrathin Mesoporous Carbon Nitride Nanosheets as Efficient Visibleâ€Lightâ€Driven Photocatalysts. Solar Rrl, 2021, 5, .	5.8	34
2639	A simple synthesis route of sodium-doped g-C3N4 nanotubes with enhanced photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 406, 112999.	3.9	17
2640	Visible-Light Driven Efficient Overall H2O2 Production on Modified Graphitic Carbon Nitride under Ambient Conditions. Applied Catalysis B: Environmental, 2021, 285, 119726.	20.2	45
2641	Direct Z-scheme heterojunction of ZnO/MoS2 nanoarrays realized by flowing-induced piezoelectric field for enhanced sunlight photocatalytic performances. Applied Catalysis B: Environmental, 2021, 285, 119785.	20.2	124
2642	PVP-assisted synthesis of g–C3N4–derived N-doped graphene with tunable interplanar spacing as high-performance lithium/sodium ions battery anodes. Carbon, 2021, 174, 98-109.	10.3	71
2643	Effect of interlaced energy bands in polymeric carbon nitride nanotubes on the greatly enhanced visible-light photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 417, 127956.	12.7	10
2644	Light-driven inactivation of harmful algae Microcystis aeruginosa and degradation of microcystin by oxygen-doped carbon nitride nanosheets. Chemical Engineering Journal, 2021, 417, 128094.	12.7	16
2645	Solar and visible-light active nano Ni/g-C3N4 photocatalyst for carbon monoxide (CO) and ligand-free carbonylation reactions. Catalysis Science and Technology, 2021, 11, 956-969.	4.1	12

#	Article	IF	CITATIONS
2646	Towards full-spectrum photocatalysis: Successful approaches and materials. Applied Catalysis A: General, 2021, 610, 117966.	4.3	36
2647	Multifunctional self-assembly 3D Ag/g-C3N4/RGO aerogel as highly efficient adsorbent and photocatalyst for R6G removal from wastewater. Applied Surface Science, 2021, 542, 148584.	6.1	57
2648	Carbon nitride/polypyrrole composite supercapacitor: Boosting performance and stability. Electrochimica Acta, 2021, 368, 137570.	5.2	22
2649	Anchoring Iron Oxides on Carbon Nitride Nanotubes for Improved Photocatalytic Hydrogen Production. Energy & Fuels, 2021, 35, 868-876.	5.1	11
2650	Photoelectrochemical reduction of N ₂ to NH ₃ under ambient conditions through hierarchical MoSe ₂ @g-C ₃ N ₄ heterojunctions. Journal of Materials Chemistry A, 2021, 9, 2742-2753.	10.3	123
2651	An enhanced photoelectrochemical ofloxacin aptasensor using NiFe layered double hydroxide/graphitic carbon nitride heterojunction. Electrochimica Acta, 2021, 368, 137595.	5.2	16
2652	Depositing Ag nanoparticles on g-C3N4 by facile silver mirror reaction for enhanced photocatalytic hydrogen production. Inorganic Chemistry Communication, 2021, 123, 108367.	3.9	34
2653	Visibleâ€Light Responsive TiO ₂ â€Based Materials for Efficient Solar Energy Utilization. Advanced Energy Materials, 2021, 11, 2003303.	19.5	118
2654	Interactions of pharmaceutical compounds in water matrices under visible-driven photocatalysis. Journal of Environmental Chemical Engineering, 2021, 9, 104747.	6.7	6
2655	The synergistic photocatalytic effects of surface-modified g-C ₃ N ₄ in simple and complex pollution systems based on a macro-thermodynamic model. Environmental Science: Nano, 2021, 8, 217-232.	4.3	11
2656	Utilizing spent Li-ion batteries to regulate the π-conjugated structure of g-C ₃ N ₄ : a win–win approach for waste recycling and highly active photocatalyst construction. Journal of Materials Chemistry A, 2021, 9, 472-481.	10.3	21
2657	Engineering Layered Double Hydroxide–Based Photocatalysts Toward Artificial Photosynthesis: Stateâ€ofâ€theâ€Art Progress and Prospects. Solar Rrl, 2021, 5, 2000535.	5.8	53
2658	The spatially oriented redistribute of photogenerated carriers and photocatalytic hydrogen evolution mechanism research on polymeric carbon nitride Van der Waals homojunction. Chemical Engineering Journal, 2021, 408, 127284.	12.7	8
2659	The dual-nitrogen-source strategy to modulate a bifunctional hybrid Co/Co–N–C catalyst in the reversible air cathode for Zn-air batteries. Journal of Power Sources, 2021, 485, 229339.	7.8	42
2660	Beyond C ₃ N ₄ ï€-conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. Chemical Society Reviews, 2021, 50, 2147-2172.	38.1	118
2661	2D Allotrope of Carbon for Selfâ€Powered, Flexible, and Transparent Optoelectronics. Advanced Optical Materials, 2021, 9, 2001551.	7.3	7
2662	Photocatalytic hydrogen evolution on CdS–based composites derived from in situ carbonization of a sulfonic azo dye complex. Inorganic Chemistry Communication, 2021, 125, 108370.	3.9	2
2663	Embedded Growth of Li 2 O 2 Achieved by a Rational Designed Threeâ€Dimensional Fe 2 O 3 @CNSâ€CNTs Sandwich Structure for Improving the Performance of Li–O 2 Batteries. Energy Technology, 2021, 9, 2000944.	3.8	1

#	Article	IF	CITATIONS
2664	Twoâ€Dimensional Porous Molybdenum Phosphide/Nitride Heterojunction Nanosheets for pHâ€Universal Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 6673-6681.	13.8	227
2665	Nanocarbon-Enhanced 2D Photoelectrodes: A New Paradigm in Photoelectrochemical Water Splitting. Nano-Micro Letters, 2021, 13, 24.	27.0	62
2666	Metallic NiSe cocatalyst decorated g-C3N4 with enhanced photocatalytic activity. Chemical Engineering Journal, 2021, 413, 127474.	12.7	38
2667	Synergistic effect of mesoporous graphitic carbon nitride and peroxydisulfate in visible light-induced degradation of atenolol: A combined experimental and theoretical study. Chemical Engineering Journal, 2021, 412, 127979.	12.7	18
2668	Realizing the synergistic effect of electronic modulation over graphitic carbon nitride for highly efficient photodegradation of bisphenol A and 2-mercaptobenzothiazole: Mechanism, degradation pathway and density functional theory calculation. Journal of Colloid and Interface Science, 2021, 583, 113-127.	9.4	26
2669	Density functional theory study on a nitrogen-rich carbon nitride material C3N5 as photocatalyst for CO2 reduction to C1 and C2 products. Journal of Colloid and Interface Science, 2021, 585, 740-749.	9.4	51
2670	Recent Advances in Graphitic Carbon Nitride Supported Singleâ€Atom Catalysts for Energy Conversion. ChemCatChem, 2021, 13, 1250-1270.	3.7	46
2672	Recent advances in anion doped g-C3N4 photocatalysts: A review. Carbon, 2021, 172, 682-711.	10.3	339
2673	Effective photocatalytic inactivation of the plant-pathogen Rhizobium radiobacter by carbon-based material: Mechanism and agriculture application. Chemical Engineering Journal, 2021, 407, 127047.	12.7	6
2674	Protonated g-C3N4 cooperated with Co-MOF doped with Sm to construct 2D/2D heterojunction for integrated dye-sensitized photocatalytic H2 evolution. Journal of Colloid and Interface Science, 2021, 583, 435-447.	9.4	74
2675	A facile route to prepare TiO2/g-C3N4 nanocomposite photocatalysts by atomic layer deposition. Journal of Alloys and Compounds, 2021, 855, 157446.	5.5	27
2676	Efficient interfacial charge transfer of 2D/2D porous carbon nitride/bismuth oxychloride step-scheme heterojunction for boosted solar-driven CO2 reduction. Journal of Colloid and Interface Science, 2021, 585, 684-693.	9.4	85
2677	Efficient persulfate non-radical activation of electron-rich copper active sites induced by oxygen on graphitic carbon nitride. Science of the Total Environment, 2021, 762, 143127.	8.0	29
2678	An overview on polymeric carbon nitride assisted photocatalytic CO2 reduction: Strategically manoeuvring solar to fuel conversion efficiency. Chemical Engineering Science, 2021, 230, 116219.	3.8	72
2679	Fabrication of g-C3N4-based conjugated copolymers for efficient photocatalytic reduction of U(â¥). Journal of Environmental Chemical Engineering, 2021, 9, 104638.	6.7	26
2680	The effect of graphitic carbon nitride precursors on the photocatalytic dye degradation of water-dispersible graphitic carbon nitride photocatalysts. Applied Surface Science, 2021, 537, 148027.	6.1	83
2681	Metal-organic layers as a platform for developing single-atom catalysts for photochemical CO2 reduction. Nano Energy, 2021, 80, 105542.	16.0	77
2682	In-suit photodeposition of MoS2 onto CdS quantum dots for efficient photocatalytic H2 evolution. Applied Surface Science, 2021, 539, 148234.	6.1	63

#	Article	IF	CITATIONS
2683	Enhanced dye-sensitized photocatalysis for water purification by an alveoli-like bilayer Janus membrane. Chemical Engineering Journal, 2021, 407, 127214.	12.7	25
2684	Facile one-step synthesis of porous graphene-like g-C3N4 rich in nitrogen vacancies for enhanced H2 production from photocatalytic aqueous-phase reforming of methanol. International Journal of Hydrogen Energy, 2021, 46, 197-208.	7.1	25
2685	Electron-donating tris(p-fluorophenyl)phosphine-modified g-C3N4 for photocatalytic hydrogen evolution and p-chlorophenol degradation. International Journal of Hydrogen Energy, 2021, 46, 1976-1988.	7.1	2
2686	Atomic―and Molecular‣evel Functionalizations of Polymeric Carbon Nitride for Solar Fuel Production. Solar Rrl, 2021, 5, 2000440.	5.8	15
2687	Making g-C3N4 ultra-thin nanosheets active for photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2021, 282, 119557.	20.2	121
2688	Boron/oxygen-codoped graphitic carbon nitride nanomesh for efficient photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 407, 127114.	12.7	54
2689	Ultrathin Z-scheme 2D/2D N-doped HTiNbO5 nanosheets/g-C3N4 porous composites for efficient photocatalytic degradation and H2 generation under visible light. Journal of Colloid and Interface Science, 2021, 583, 58-70.	9.4	59
2690	Synergetic enhancement of surface reactions and charge separation over holey C3N4/TiO2 2D heterojunctions. Science Bulletin, 2021, 66, 275-283.	9.0	61
2691	Light-driven directional ion transport for enhanced osmotic energy harvesting. National Science Review, 2021, 8, nwaa231.	9.5	24
2692	Embedding of stereo molecular scaffold into the planar g-C3N4 nanosheets for efficient photocatalytic hydrogen evolution under ordinary pressure. Journal of Materials Science, 2021, 56, 1630-1642.	3.7	6
2693	Synthesis of CoO/KNbO3 p-n Heterojunction Photocatalysts with Enhanced H2 Production. Catalysis Letters, 2021, 151, 755-763.	2.6	8
2694	Interfacial Charge Transport in 1D TiO ₂ Based Photoelectrodes for Photoelectrochemical Water Splitting. Small, 2021, 17, e1903378.	10.0	102
2695	A review of the current status of graphitic carbon nitride. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 189-217.	12.3	160
2696	Chalcogenides-based nanomaterials for artificial photosynthesis. , 2021, , 219-242.		0
2697	Two-dimensional layered double hydroxide based photocatalysts for environmental clean-up and renewable energy production. , 2021, , 485-503.		0
2698	Photocatalytic membranes and membrane reactors for CO2 valorization. , 2021, , 523-539.		0
2699	Promoting hydrogen evolution of a g-C ₃ N ₄ -based photocatalyst by indium and phosphorus co-doping. New Journal of Chemistry, 2021, 45, 7231-7238.	2.8	14
2700	Impact of the vertical strain on the Schottky barrier height for graphene/AIN heterojunction: a study by the first-principles method. European Physical Journal B, 2021, 94, 1.	1.5	6

#	Article	IF	CITATIONS
2701	Enhanced xylene sensing performance using Ag–V ₂ O ₅ loaded mesoporous graphitic carbon nitride. Dalton Transactions, 2021, 50, 8392-8403.	3.3	3
2702	Metal Nitrides and Graphitic Carbon Nitrides as Novel Photocatalysts for Hydrogen Production and Environmental Remediation. , 2021, , 485-519.		40
2703	Graphite carbon nitride doped with a benzene ring for enhanced photocatalytic H ₂ evolution. Chemical Communications, 2021, 57, 3042-3045.	4.1	23
2704	Triangular boron carbon nitrides: an unexplored family of chromophores with unique properties for photocatalysis and optoelectronics. Physical Chemistry Chemical Physics, 2021, 23, 12968-12975.	2.8	28
2705	A current overview of the oxidative desulfurization of fuels utilizing heat and solar light: from materials design to catalysis for clean energy. Nanoscale Horizons, 2021, 6, 588-633.	8.0	53
2706	How do the doping concentrations of N and B in graphene modify the water adsorption?. RSC Advances, 2021, 11, 19560-19568.	3.6	10
2707	Dual functions of CO ₂ molecular activation and 4f levels as electron transport bridges in erbium single atom composite photocatalysts therefore enhancing visible-light photoactivities. Journal of Materials Chemistry A, 2021, 9, 15820-15826.	10.3	26
2708	Bi ₂ S ₃ @NH ₂ -UiO-66-S composites modulated by covalent interfacial reactions boost photodegradation and the oxidative coupling of primary amines. New Journal of Chemistry, 2021, 45, 11831-11844.	2.8	6
2709	Orienting Z scheme charge transfer in graphitic carbon nitride-based systems for photocatalytic energy and environmental applications. Journal of Materials Chemistry A, 2021, 9, 10039-10080.	10.3	90
2710	lsotypic heterojunction based on Fe-doped and terephthalaldehyde-modified carbon nitride for improving photocatalytic degradation with simultaneous hydrogen production. Chinese Chemical Letters, 2021, 32, 2782-2786.	9.0	21
2711	Nitrogen Vacancy Engineering in Graphitic Carbon Nitride for Strong, Stable, and Wavelength Tunable Electrochemiluminescence Emissions. Analytical Chemistry, 2021, 93, 2678-2686.	6.5	40
2712	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. Chemical Society Reviews, 2021, 50, 11381-11485.	38.1	129
2713	Construction and photocatalytic properties of WS2/MoS2/BiOCl heterojunction. Chemical Physics Letters, 2021, 763, 138203.	2.6	20
2714	Advanced nanomaterials for energy conversion and storage: current status and future opportunities. Nanoscale, 2021, 13, 9904-9907.	5.6	14
2715	Z-Scheme <i>versus</i> type-II junction in g-C ₃ N ₄ /TiO ₂ and g-C ₃ N ₄ /SrTiO ₃ /TiO ₂ heterostructures. Catalysis Science and Technology, 2021, 11, 3589-3598.	4.1	25
2716	Metal-free nanostructured catalysts: sustainable driving forces for organic transformations. Green Chemistry, 2021, 23, 6223-6272.	9.0	32
2717	Selective oxidation of aromatic alcohols in the presence of C3N4 photocatalysts derived from the polycondensation of melamine, cyanuric and barbituric acids. Research on Chemical Intermediates, 2021, 47, 131-156.	2.7	16
2718	MnO ₂ â€Based Materials for Environmental Applications. Advanced Materials, 2021, 33, e2004862.	21.0	252

#	Article	IF	CITATIONS
2719	Sustainable plasma-catalytic bubbles for hydrogen peroxide synthesis. Green Chemistry, 2021, 23, 2977-2985.	9.0	42
2720	Construction of molecularly doped and cyano defects co-modified graphitic carbon nitride for the efficient photocatalytic degradation of tetracycline hydrochloride. New Journal of Chemistry, 2021, 45, 18598-18608.	2.8	8
2721	Recent progress on strategies for the preparation of 2D/2D MXene/g-C ₃ N ₄ nanocomposites for photocatalytic energy and environmental applications. Catalysis Science and Technology, 2021, 11, 1222-1248.	4.1	75
2722	Decorating Pt@cyclodextrin nanoclusters on C ₃ N ₄ /MXene for boosting the photocatalytic H ₂ O ₂ production. Journal of Materials Chemistry A, 2021, 9, 6872-6880.	10.3	39
2723	NiCo ₂ O ₄ nanosheets as a novel oxygen-evolution-reaction cocatalyst <i>in situ</i> bonded on the g-C ₃ N ₄ photocatalyst for excellent overall water splitting. Journal of Materials Chemistry A, 2021, 9, 12299-12306.	10.3	92
2724	Development of graphitic carbon nitride-based Z-scheme photocatalysts. , 2021, , 327-358.		0
2725	Abundant hydroxyl groups decorated on nitrogen vacancy-embedded g-C ₃ N ₄ with efficient photocatalytic hydrogen evolution performance. Catalysis Science and Technology, 2021, 11, 3914-3924.	4.1	14
2726	Remarkable Activity of Potassium-Modified Carbon Nitride for Heterogeneous Photocatalytic Decarboxylative Alkyl/Acyl Radical Addition and Reductive Dimerization of <i>para</i> -Quinone Methides. ACS Sustainable Chemistry and Engineering, 2021, 9, 2367-2377.	6.7	38
2727	Molecular Mechanism for the Self-Supported Synthesis of Graphitic Carbon Nitride from Urea Pyrolysis. Journal of Physical Chemistry Letters, 2021, 12, 1396-1406.	4.6	20
2728	Hierarchical N-Doped Carbons Endowed with Structural Base Sites toward Highly Selective Adsorption and Catalytic Oxidation of H ₂ S. Industrial & Engineering Chemistry Research, 2021, 60, 2101-2111.	3.7	21
2729	The unique carrier mobility of monolayer Janus MoSSe nanoribbons: a first-principles study. Dalton Transactions, 2021, 50, 10252-10260.	3.3	8
2730	Extending the π-conjugated molecules on TiO2 for the selective photocatalytic aerobic oxidation of sulfides triggered by visible light. Sustainable Energy and Fuels, 2021, 5, 2127-2135.	4.9	9
2731	Photocatalytic Fluorination of Unactivated C(sp3)–H Bonds in the Presence of Titanium Dioxide and Graphite-Like Carbon Nitride. Theoretical and Experimental Chemistry, 2021, 56, 396-403.	0.8	0
2732	Heterogeneous photocatalyzed acceptorless dehydrogenation of 5-hydroxymethylfurfural upon visible-light illumination. Green Chemistry, 2021, 23, 6604-6613.	9.0	23
2733	Exfoliated conjugated porous polymer nanosheets for highly efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 5787-5795.	10.3	81
2734	Fabrication of g-C3N4/Y-TiO2 Z-scheme heterojunction photocatalysts for enhanced photocatalytic activity. New Journal of Chemistry, 0, , .	2.8	1
2735	An overview of converting reductive photocatalyst into all solid-state and direct Z-scheme system for water splitting and CO2 reduction. Journal of Industrial and Engineering Chemistry, 2021, 93, 1-27.	5.8	43
2736	Efficient Photocatalytic Overall Water Splitting Induced by the Giant Internal Electric Field of a g ₃ N ₄ /rGO/PDIP Z cheme Heterojunction. Advanced Materials, 2021, 33, e2007479.	21.0	354

ARTICLE IF CITATIONS Toward the creation of high-performance heterogeneous catalysts by controlled ligand desorption 2737 8.0 52 from atomically precise metal nanoclusters. Nanoscale Horizons, 2021, 6, 409-448. Mechanistic Insights into the Synthesis of Platinum–Rare Earth Metal Nanoalloys by a Solid-State 2738 6.7 Chemical Route. Chemistry of Materials, 2021, 33, 535-546. A high performance all-vanadate-based Li-ion full cell. Journal of Materials Chemistry A, 2021, 9, 2739 10.3 32 10345-10353. Ultrathin mesoporous graphitic carbon nitride nanosheets with functional cyano group decoration and nitrogen-vacancy defects for an efficient selective CO₂ photoreduction. Nanoscale, 2740 2021, 13, 12634-12641. Combination of Carbon Nitride and Semiconductors for the Enhancement of the Photocatalytic Degradation of Organic Pollutants and Hydrogen Production. RSC Nanoscience and Nanotechnology, 2741 0.2 0 2021, , 318-370. Loading SnS₂ nanosheets decorated with MoS₂ nanoparticles on a flake-shaped g-C₃N₄ network for enhanced photocatalytic performance. 2742 2.6 CrystEngComm, 2021, 23, 4680-4693. Photochemistry of carbon nitrides and heptazine derivatives. Chemical Communications, 2021, 57, 2743 4.1 15 9330-9353. State of the Art in the Preparation and Properties of Molecular Monomeric <i>s</i>-Heptazines: 2744 47.7 Syntheses, Characteristics, and Functional Applications. Chemical Reviews, 2021, 121, 2515-2544. A graphitic carbon nitride metal-free visible light photocatalyst with controllable carbon self-doping 2745 4.9 5 towards efficient hydrogen evolution. Sustainable Energy and Fuels, 2021, 5, 5227-5235. A strategy for enhancing the photoactivity of g-C₃N₄-based single-atom catalysts (i>via</i> sulphur doping: a theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 2746 2.8 6632-6640. Construction of a polymeric cobalt phthalocyanine@mesoporous graphitic carbon nitride composite 2747 22 4.1 for efficient photocatalytic CO₂reduction. Chemical Communications, 2021, 57, 6987-6990. Novel graphitic carbon nitride g-C₉N₁₀ as a promising platform to design efficient photocatalysts for dinitrogen reduction to ammonia: the first-principles investigation. 2748 10.3 Journal of Materials Chemistry A, 2021, 9, 20615-20625. <i>In situ</i>constructed oxygen-vacancy-rich MoO_{3â[^]<i>x</i>}/porous g-C₃N₄heterojunction for synergistically enhanced photocatalytic 2749 3.6 9 H₂evolution. RSC Advances, 2021, 11, 31219-31225. Semiconductor photocatalysts and mechanisms of carbon dioxide reduction and nitrogen fixation under UV and visible light. Russian Chemical Reviews, 2021, 90, 1520-1543. 6.5 Photopolymerization performed under dark conditions using long-stored electrons in carbon 2751 12.2 15 nitride. Materials Horizons, 2021, 8, 2018-2024. State-of-the-art developments in carbon-based metal nanocomposites as a catalyst: photocatalysis. Nanoscale Advances, 2021, 3, 1887-1900. Recent Progress in 2D Catalysts for Photocatalytic and Electrocatalytic Artificial Nitrogen Reduction 2753 19.5 73 to Ammonia. Advanced Energy Materials, 2021, 11, 2003294. Regulating morphological and electronic structures of polymeric carbon nitrides by successive copolymerization and stream reforming for photocatalytic CO₂ reduction. Catalysis 2754 4.1 Science and Technology, 2021, 11, 2570-2576.

#	Apticle	IF	CITATIONS
2755	Supramolecular nanoparticles self-assembled from reduction-responsive cabazitaxel prodrugs for effective cancer therapy. Chemical Communications, 2021, 57, 2261-2264.	4.1	5
2756	Advances in photo-enzymatic-coupling catalysis system. Systems Microbiology and Biomanufacturing, 2021, 1, 245-256.	2.9	6
2757	Nanomaterials for Photocatalytic Energy Conversion. Materials Horizons, 2021, , 43-84.	0.6	0
2758	Visible light active Zr- and N-doped TiO ₂ coupled g-C ₃ N ₄ heterojunction nanosheets as a photocatalyst for the degradation of bromoxynil and Rh B along with the H ₂ evolution process. Nanoscale Advances, 2021, 3, 6468-6481.	4.6	5
2759	Mechanical properties of aerospace epoxy composites reinforced with 2D nano-fillers: current status and road to industrialization. Nanoscale Advances, 2021, 3, 2741-2776.	4.6	55
2760	Metal-free g-C ₃ N ₄ nanosheets as a highly visible-light-active photocatalyst for thiol–ene reactions. Nanoscale, 2021, 13, 3493-3499.	5.6	13
2761	A review on g-C ₃ N ₄ incorporated with organics for enhanced photocatalytic water splitting. Journal of Materials Chemistry A, 2021, 9, 12898-12922.	10.3	79
2762	Graphitic Carbon Nitride-polymer Hybrids: A Win–Win Combination with Advanced Properties for Different Applications. RSC Nanoscience and Nanotechnology, 2021, , 174-220.	0.2	0
2763	Graphitic Carbon Nitride Nanostructures as Potent Catalysts for Water Splitting: Theoretical Insights. RSC Nanoscience and Nanotechnology, 2021, , 127-173.	0.2	2
2764	Categorization of Quantum Dots, Clusters, Nanoclusters, and Nanodots. Journal of Chemical Education, 2021, 98, 703-709.	2.3	22
2765	Photocatalytic degradation of organic pollutants through conjugated poly(azomethine) networks based on terthiophene–naphthalimide assemblies. RSC Advances, 2021, 11, 2701-2705.	3.6	7
2766	Effective enhancement of capacitive performance by the facile exfoliation of bulk metal–organic frameworks into 2D-functionalized nanosheets. Nanoscale, 2021, 13, 13273-13284.	5.6	10
2767	Graphitic carbon nitride-based metal-free photocatalyst. , 2021, , 449-484.		1
2768	Photocatalysis by metal-organic frameworks. , 2021, , 543-559.		1
2769	Single-atom nickel terminating sp ² and sp ³ nitride in polymeric carbon nitride for visible-light photocatalytic overall water splitting. Chemical Science, 2021, 12, 3633-3643.	7.4	68
2770	Construction of Z-scheme NiO/NiC/g-C ₃ N ₄ composites using NiC as novel cocatalysts for the efficient photocatalytic degradation. RSC Advances, 2021, 11, 24822-24835.	3.6	9
2771	Facile fabrication of Bi nanoparticle-decorated g-C ₃ N ₄ photocatalysts for effective tetracycline hydrochloride degradation: environmental factors, degradation mechanism, pathways and biotoxicity evaluation. Environmental Science: Nano, 2021, 8, 415-431.	4.3	25
2772	Alkaline salt-promoted construction of hydrophilic and nitrogen deficient graphitic carbon nitride with highly improved photocatalytic efficiency. Journal of Materials Chemistry A, 2021, 9, 4700-4706.	10.3	23

#	Article	IF	CITATIONS
2773	The construction of NiFeS _x /g-C ₃ N ₄ composites with high photocatalytic activity towards the degradation of refractory pollutants. Dalton Transactions, 2021, 50, 2436-2447.		13
2774	Photoredox catalysis over semiconductors for light-driven hydrogen peroxide production. Green Chemistry, 2021, 23, 1466-1494.	9.0	166
2775	High carrier separation efficiency for a defective g-C ₃ N ₄ with polarization effect and defect engineering: mechanism, properties and prospects. Catalysis Science and Technology, 2021, 11, 5432-5447.	4.1	19
2776	Two-dimensional Ti ₃ C ₂ MXene-based nanostructures for emerging optoelectronic applications. Materials Horizons, 2021, 8, 2929-2963.	12.2	37
2777	Experimental determination of charge carrier dynamics in carbon nitride heterojunctions. Chemical Communications, 2021, 57, 1550-1567.	4.1	22
2778	Engineering graphitic carbon nitride (g-C ₃ N ₄) for catalytic reduction of CO ₂ to fuels and chemicals: strategy and mechanism. Green Chemistry, 2021, 23, 5394-5428.	9.0	109
2779	The preparation of a Co@C ₃ N ₄ catalyst and applications in the synthesis of quinolines from 2-aminobenzyl alcohols with ketones. New Journal of Chemistry, 2021, 45, 6768-6772.	2.8	15
2780	Photo-accelerated Co ³⁺ /Co ²⁺ transformation on cobalt and phosphorus co-doped g-C ₃ N ₄ for Fenton-like reaction. Journal of Materials Chemistry A, 2021, 9, 22399-22409.	10.3	37
2781	Engineering defects in 2D g-C ₃ N ₄ for wideband, efficient electromagnetic absorption at elevated temperature. Journal of Materials Chemistry A, 2021, 9, 19710-19718.	10.3	126
2782	Fluorine-regulated surface chemical state of titanium dioxide (TiO2) and decolourisation mechanism of methylene blue. Environmental Chemistry, 2021, 18, 71.	1.5	0
2783	Artificial photosynthesis system for the reduction of carbon dioxide to value-added fuels. , 2021, , 917-938.		4
2784	Surface engraving engineering of polyhedral photocatalysts. Catalysis Science and Technology, 2021, 11, 6001-6017.	4.1	2
2785	A comparison study of sodium ion- and potassium ion-modified graphitic carbon nitride for photocatalytic hydrogen evolution. RSC Advances, 2021, 11, 15701-15709.	3.6	21
2786	Graphitic carbon nitride nanosheets with low O _{N1} -doping content as efficient photocatalysts for organic pollutant degradation. Environmental Science: Nano, 2021, 8, 460-469.	4.3	15
2787	Functionalized Graphitic Carbon Nitrides for Environmental and Sensing Applications. Advanced Energy and Sustainability Research, 2021, 2, 2000073.	5.8	29
2788	Label-free tri-luminophores electrochemiluminescence sensor for microRNAs detection based on three-way DNA junction structure. Journal of Electroanalytical Chemistry, 2021, 880, 114935.	3.8	9
2789	High-performance Pt _{0.01} Fe _{0.05} -g-C ₃ N ₄ Catalyst for Photothermal Catalytic CO ₂ Reduction. Acta Chimica Sinica, 2021, 79, 932.	1.4	6
2790	Visible-light-promoted thiocyanation of sp ² C–H bonds over heterogeneous graphitic carbon nitrides. New Journal of Chemistry, 2021, 45, 14058-14062.	2.8	8

#	Article	IF	CITATIONS
2791	Surface defect engineering and morphology control of graphitic carbon nitride with synergistically improved photocatalytic performance. New Journal of Chemistry, 2021, 45, 13949-13955.	2.8	6
2792	Photocatalyst for Highâ€Performance H 2 Production: Gaâ€Doped Polymeric Carbon Nitride. Angewandte Chemie, 2021, 133, 6189-6194.	2.0	21
2793	Fine tuning of phosphorus active sites on g-C ₃ N ₄ nanosheets for enhanced photocatalytic decontamination. Journal of Materials Chemistry A, 2021, 9, 10933-10944.	10.3	26
2794	A fluorine induced enhancement of the surface polarization and crystallization of g-C ₃ N ₄ for an efficient charge separation. New Journal of Chemistry, 2021, 45, 9334-9345.	2.8	8
2795	Bio-Based Materials in Photocatalysis. , 2021, , .		1
2796	Metal-doped carbon nitrides: synthesis, structure and applications. New Journal of Chemistry, 2021, 45, 11876-11892.	2.8	33
2797	Visible-light photocatalytic selective oxidation of C(sp ³)–H bonds by anion–cation dual-metal-site nanoscale localized carbon nitride. Catalysis Science and Technology, 2021, 11, 4429-4438.	4.1	11
2798	Graphitic Carbon Nitride with Extraordinary Photocatalytic Activity Under Visible Light Irradiation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 423-441.	0.3	1
2799	Defect-mediated electron transfer in photocatalysts. Chemical Communications, 2021, 57, 3532-3542.	4.1	19
2800	The selective oxidation of glycerol over metal-free photocatalysts: insights into the solvent effect on catalytic efficiency and product distribution. Catalysis Science and Technology, 2021, 11, 3385-3392.	4.1	11
2801	Diazanyl and SnO ₂ bi-activated g-C ₃ N ₄ for enhanced photocatalytic CO ₂ reduction. Sustainable Energy and Fuels, 2021, 5, 1034-1043.	4.9	13
2802	General surface grafting strategy-derived carbon-modified graphitic carbon nitride with largely enhanced visible light photocatalytic H ₂ evolution coupled with benzyl alcohol oxidation. Journal of Materials Chemistry A, 2021, 9, 7143-7149.	10.3	31
2803	Carbon-based metal-free electrocatalysts: from oxygen reduction to multifunctional electrocatalysis. Chemical Society Reviews, 2021, 50, 11785-11843.	38.1	174
2804	Heteroâ€MXenes: Theory, Synthesis, and Emerging Applications. Advanced Materials, 2021, 33, e2004129.	21.0	150
2805	Ultrafast anisotropic exciton dynamics in a water-soluble ionic carbon nitride photocatalyst. Chemical Communications, 2021, 57, 10739-10742.	4.1	1
2806	Photocatalyst for Highâ€Performance H ₂ Production: Gaâ€Doped Polymeric Carbon Nitride. Angewandte Chemie - International Edition, 2021, 60, 6124-6129.	13.8	108
2807	PtCo ₃ Nanoparticle-Encapsulated Carbon Nanotubes as Active Catalysts for Methanol Fuel Cell Anodes. ACS Applied Nano Materials, 2021, 4, 1445-1454.	5.0	19
2808	Electrostatic interaction mechanism of visible light absorption broadening in ion-doped graphitic carbon nitride. RSC Advances, 2021, 11, 22652-22660.	3.6	2

		CITATION R	EPORT	
#	Article		IF	CITATIONS
2809	Efficient photocatalytic destruction of recalcitrant micropollutants using graphitic carb under simulated sunlight irradiation. Environmental Science and Ecotechnology, 2021,	on nitride 5, 100079.	13.5	48
2810	Accelerated exciton dissociation and electron extraction across the metallic sulfide–c ohmic interface for efficient photocatalytic hydrogen production. Journal of Materials C 2021, 9, 16522-16531.	carbon nitride Chemistry A,	10.3	24
2811	Element-doped graphitic carbon nitride: confirmation of doped elements and applicatic Advances, 2021, 3, 4370-4387.	ons. Nanoscale	4.6	27
2812	C-Rich Graphitic Carbon Nitride with Cross Pore Channels: A Visible-Light-Driven Photoc Water Splitting. ACS Applied Energy Materials, 2021, 4, 1784-1792.	catalyst for	5.1	16
2813	Electric-Field-Driven Nanoparticles Produce Dual-Functional Bipolar Electrodes and Nan Cells for Water Remediation. Cell Reports Physical Science, 2021, 2, 100299.	oelectrolytic	5.6	10
2814	Identification of Photoexcited Electron Relaxation in a Cobalt Phosphide Modified Carb Photocatalyst. ChemPhotoChem, 2021, 5, 330-334.	on Nitride	3.0	8
2815	Applications and Fundamentals of Photocatalysis with Solar Energy. , 2021, , 27-66.			1
2816	Twoâ€Dimensional Porous Molybdenum Phosphide/Nitride Heterojunction Nanosheets Hydrogen Evolution Reaction. Angewandte Chemie, 2021, 133, 6747-6755.	for pHâ€Universal	2.0	25
2818	Photocatalytic activity of perovskite SrTiO3 catalysts doped with variable rare earth ior Metals, 2021, 40, 1077-1085.	ıs. Rare	7.1	26
2819	Catalytic Strecker reaction: g-C3N4-anchored sulfonic acid organocatalyst for the synth α-aminonitriles. Research on Chemical Intermediates, 2021, 47, 1489-1502.	nesis of	2.7	6
2820	Pt-sensitized MoO3/mpg-CN mesoporous nanohybrid: A highly sensitive VOC sensor. M Mesoporous Materials, 2021, 315, 110906.	licroporous and	4.4	11
2821	Z-scheme g-C3N4/C/S-g-C3N4 heterostructural nanotube with enhanced porous struct light driven photocatalysis. Microporous and Mesoporous Materials, 2021, 314, 11089	ure and visible 1.	4.4	34
2822	Dual Evolution in Defect and Morphology of Singleâ€Atom Dispersed Carbon Based Ox Electrocatalyst. Advanced Functional Materials, 2021, 31, 2010472.	ygen	14.9	78
2823	Mediated Growth of Carbon Nitride Films via Sprayâ€Coated Seeding Layers for Photoe Applications. Advanced Sustainable Systems, 0, , 2100005.	electrochemical	5.3	6
2824	Synthesis of Graphitic Carbon Nitride on the Surface of Fe3O4 Nanoparticles. Inorganic 2021, 57, 136-141.	: Materials,	0.8	1
2825	Real-Time Adsorption and Photodegradation Investigation of Dye Removal on g-C ₃ N ₄ Surface by Attenuated Total Reflectance Induced Eva Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 4027-4040.	anescent	3.1	12
2826	Rationalize the Significantly Enhanced Photocatalytic Efficiency of $In < Sup > 3 + do I^{\pm} = -Ga < Sub > 2 S < Sub > 3 by Bond Theory and Local Structural Distortion. Chemistry Letters, 2021, 12, 1772-1776.$	oped . Journal of Physical	4.6	6
2827	Colloidal Tornadoes in a Vial under Gravitational Sedimentation. Journal of Chemical Ed 98, 1347-1351.	ucation, 2021,	2.3	1

#	Article	IF	Citations
2828	Efficient oxidative desulfurization over highly dispersed molybdenum oxides supported on mesoporous titanium phosphonates. Microporous and Mesoporous Materials, 2021, 315, 110921.	4.4	32
2829	Chromoselective Photocatalysis Enables Stereocomplementary Biocatalytic Pathways**. Angewandte Chemie - International Edition, 2021, 60, 6965-6969.	13.8	52
2830	Recent advances in g-C3N4-based photocatalysts for reduction of CO2. IOP Conference Series: Earth and Environmental Science, 2021, 675, 012181.	0.3	1
2832	Synthesis of g-C3N4/W-SBA-15 Composites for Photocatalytic Degradation of Tetracycline Hydrochloride. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2140-2149.	3.7	10
2833	Inâ€situ synthesis of defects modified mesoporous <scp> g ₃ N ₄ </scp> with enhanced photocatalytic <scp> H ₂ </scp> evolution performance. International Journal of Energy Research, 2021, 45, 10478-10488.	4.5	22
2834	Porous Carbon Nitride Thin Strip: Precise Carbon Doping Regulating Delocalized Ï€â€Electron Induces Elevated Photocatalytic Hydrogen Evolution. Small, 2021, 17, e2006622.	10.0	73
2835	Chromoselective Photocatalysis Enables Stereocomplementary Biocatalytic Pathways**. Angewandte Chemie, 2021, 133, 7041-7045.	2.0	12
2836	Environmental Applications of Nanotechnology: Nano-enabled Remediation Processes in Water, Soil and Air Treatment. Water, Air, and Soil Pollution, 2021, 232, 1.	2.4	14
2837	Fast and Sensitive Detection of Bisphenol A and 4-n-Octylphenol in Foods Based on a 2D Graphitic Carbon Nitride (g-C3N4)/Gold Nano-Composite Film. Chemistry Africa, 2021, 4, 367.	2.4	2
2838	A Durable Metalloporphyrin 2Dâ€Polymer for Photocatalytic Hydrogen and Oxygen Evolution from River and Sea Waters. ChemCatChem, 2021, 13, 1717-1721.	3.7	9
2839	Sensitive sandwich-type voltammetric immunosensor for breast cancer biomarker HER2 detection based on gold nanoparticles decorated Cu-MOF and Cu2ZnSnS4 NPs/Pt/g-C3N4 composite. Mikrochimica Acta, 2021, 188, 78.	5.0	68
2840	Photocatalytic Inactivation as a Method of Elimination of E. coli from Drinking Water. Applied Sciences (Switzerland), 2021, 11, 1313.	2.5	18
2841	Fabrication of g-C3N4/Au nanocomposite using laser ablation and its application as an effective catalyst in the reduction of organic pollutants in water. Ceramics International, 2021, 47, 3565-3572.	4.8	64
2842	Enhanced performance of dye-sensitized solar cell-based g-C3N4/Ag3PO4 hybrid composites as novel electrodes fabricated by facial hydrothermal approach. Journal of Materials Science: Materials in Electronics, 2021, 32, 5404-5414.	2.2	6
2843	Highly Enhanced Visibleâ€light Photocatalytic Activity via a Novel Surface Structure of CeO ₂ /gâ^C ₃ N ₄ toward Removal of 2,4â€dichlorophenol and Cr(VI). ChemCatChem, 2021, 13, 2034-2044.	3.7	14
2845	Sphagnum Inspired gâ€C ₃ N ₄ Nano/Microspheres with Smaller Bandgap in Heterojunction Membranes for Sunlightâ€Driven Water Purification. Small, 2021, 17, e2007122.	10.0	43
2846	Strong adsorption, catalysis and lithiophilic modulation of carbon nitride for lithium/sulfur battery. Nanotechnology, 2021, 32, 192002.	2.6	7
2847	Enhanced pyrocatalysis of the pyroelectric BiFeO3/g-C3N4 heterostructure for dye decomposition driven by cold-hot temperature alternation. Journal of Advanced Ceramics, 2021, 10, 338-346.	17.4	69

#	Article	IF	Citations
2848	Synthesis of Plasmonic Z-Scheme g-C3N4/W18O49 Nanocone Arrays with Enhanced Charge Separation. Journal of Physical Chemistry C, 2021, 125, 4205-4210.	3.1	6
2849	Laser-assisted preparation of C3N4/Fe2O3/Au nanocomposite: a magnetic reusable catalyst for pollutant degradation. Clean Technologies and Environmental Policy, 2021, 23, 1797-1806.	4.1	24
2851	2D materials and their heterostructures for photocatalytic water splitting and conversion of CO ₂ to value chemicals and fuels. JPhys Energy, 2021, 3, 022003.	5.3	33
2852	Visible‣ight Promoted C–O Bond Formation with an Integrated Carbon Nitride–Nickel Heterogeneous Photocatalyst. Angewandte Chemie - International Edition, 2021, 60, 8494-8499.	13.8	61
2853	A Review on Emerging Efficient and Stable Perovskite Solar Cells Based on g-C3N4 Nanostructures. Materials, 2021, 14, 1679.	2.9	16
2854	Controllable Approach to Carbonâ€Deficient and Oxygenâ€Doped Graphitic Carbon Nitride: Robust Photocatalyst Against Recalcitrant Organic Pollutants and the Mechanism Insight. Advanced Functional Materials, 2021, 31, 2010763.	14.9	135
2855	Uracil-Doped Graphitic Carbon Nitride for Enhanced Photocatalytic Performance. ACS Applied Materials & Interfaces, 2021, 13, 12118-12130.	8.0	27
2856	Low-Temperature Synthesis of Solution Processable Carbon Nitride Polymers. Molecules, 2021, 26, 1646.	3.8	11
2857	Constructing ultralong hollow chain-ball-like carbon nitride implanted with oxygen for superior visible-light photocatalytic hydrogen production. Journal of Alloys and Compounds, 2021, 857, 157609.	5.5	9
2859	Visible‣ight Promoted C–O Bond Formation with an Integrated Carbon Nitride–Nickel Heterogeneous Photocatalyst. Angewandte Chemie, 2021, 133, 8575-8580.	2.0	2
2860	Template-Free Synthesis of One-Dimensional g-C3N4 Chain Nanostructures for Efficient Photocatalytic Hydrogen Evolution. Frontiers in Chemistry, 2021, 9, 652762.	3.6	5
2861	Two-dimensional graphitic carbon nitride for membrane separation. Chinese Journal of Chemical Engineering, 2022, 42, 297-311.	3.5	17
2862	Enhanced solar-to-chemical energy conversion of graphitic carbon nitride by two-dimensional cocatalysts. EnergyChem, 2021, 3, 100051.	19.1	87
2863	Nitrogen and Sulfur Incorporation into Graphene Oxide by Mechanical Process. Advanced Engineering Materials, 2021, 23, 2001444.	3.5	1
2864	Advanced Two-Dimensional Heterojunction Photocatalysts of Stoichiometric and Non-Stoichiometric Bismuth Oxyhalides with Graphitic Carbon Nitride for Sustainable Energy and Environmental Applications. Catalysts, 2021, 11, 426.	3.5	48
2865	Exfoliated Boron Nitride (e-BN) Tailored Exfoliated Graphitic Carbon Nitride (e-CN): An Improved Visible Light Mediated Photocatalytic Approach towards TCH Degradation and H ₂ Evolution. Inorganic Chemistry, 2021, 60, 5021-5033.	4.0	60
2866	g-C ₃ N ₄ /Ag ₃ PO ₄ based binary and ternary heterojunction for improved photocatalytic removal of organic pollutants. International Journal of Environmental Analytical Chemistry, 2023, 103, 3011-3026.	3.3	6
2867	Solar-driven zinc-doped graphitic carbon nitride photocatalytic fibre for simultaneous removal of hexavalent chromium and pharmaceuticals. Environmental Technology (United Kingdom), 2022, 43, 2569-2580.	2.2	6

#	Article	IF	CITATIONS
2868	In situ growth of nickel phosphide nanoparticles on inner wall of graphitic carbon nitride tubes for efficient photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 10346-10355.	7.1	10
2869	Effect of particle size of vermiculite on the microstructure and photocatalytic performance of g-C3N4/vermiculite composite. Solid State Sciences, 2021, 113, 106533.	3.2	7
2870	A perspective of the engineering applications of carbon-based selenium-containing materials. Chinese Chemical Letters, 2021, 32, 2933-2938.	9.0	56
2871	Facile synthesis of BiOCl/g-C3N4 heterojunction via in situ hydrolysis of Bi nanospheres: a high-efficiency visible-light-driven photocatalyst. Journal of Materials Science: Materials in Electronics, 2021, 32, 9972-9989.	2.2	11
2872	Development of versatile CdMoO4/g-C3N4 nanocomposite for enhanced photoelectrochemical oxygen evolution reaction and photocatalytic dye degradation applications. Materials Today Chemistry, 2021, 19, 100392.	3.5	35
2874	Polymeric Carbon Nitrideâ€Derived Photocatalysts for Water Splitting and Nitrogen Fixation. Small, 2021, 17, e2005149.	10.0	45
2876	ZnIn2S4/g-C3N4 Nanocomposite for Proficient Elimination of Hg (II) under Visible Light. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3829-3841.	3.7	1
2877	Synthesis of coralloid carbon nitride polymers and photocatalytic selective oxidation of benzyl alcohol. Nanotechnology, 2021, 32, 235602.	2.6	5
2878	Self-assembly synthesis of phosphorus-doped tubular g-C3N4/Ti3C2 MXene Schottky junction for boosting photocatalytic hydrogen evolution. Green Energy and Environment, 2023, 8, 233-245.	8.7	31
2879	Theoretical Insights into the Limitation of Photocatalytic Overall Water Splitting Performance of VIA Group Elements Doped Polymeric Carbon Nitride: A Density Functional Theory Calculation Predicting Solarâ€toâ€Hydrogen Efficiency. Solar Rrl, 2021, 5, 2000630.	5.8	13
2880	Liquidâ€Exfoliated 2D Materials for Optoelectronic Applications. Advanced Science, 2021, 8, e2003864.	11.2	77
2881	Efficient decontamination of organic pollutants under high salinity conditions by a nonradical peroxymonosulfate activation system. Water Research, 2021, 191, 116799.	11.3	259
2882	Fenton activity on RhB degradation of magnetic g-C3N4/diatomite/Fe3O4 composites. Applied Surface Science, 2021, 543, 148844.	6.1	42
2883	Enhancement in Photocatalytic H ₂ O ₂ Production over g-C ₃ N ₄ Nanostructures: A Collaborative Approach of Nitrogen Deficiency and Supramolecular Precursors. ACS Sustainable Chemistry and Engineering, 2021, 9, 4520-4530.	6.7	87
2884	Prediction of two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:msub> <mml:mi>Cu </mml:mi> <mml:rr mathvariant="normal">C </mml:rr </mml:msub></mml:mrow> with polyacetylene-like motifs and Dirac nodal line. Physical Review Materials, 2021, 5, .</mml:math 	11722.4	l:mn>
2885	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. Small, 2021, 17, e2005573.	10.0	19
2886	Enhanced interfacial electronic transfer of BiVO ₄ coupled with 2D gâ€C ₃ N ₄ for visibleâ€light photocatalytic performance. Journal of the American Ceramic Society, 2021, 104, 3004-3018.	3.8	13
2887	Hierarchical OD NiSe ₂ /2D ZnIn ₂ S ₄ Nanosheetâ€Assembled Microflowers for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2021, 8, 2100052.	3.7	34

#	Article	IF	CITATIONS
2888	Photoâ€rechargeable batteries and supercapacitors: Critical roles of carbonâ€based functional materials. , 2021, 3, 225-252.		41
2889	The effect of Pt cocatalyst on the performance and transient IR spectrum of photocatalytic g-C3N4 nanospheres. Applied Surface Science, 2021, 542, 148432.	6.1	25
2890	Emerging polymeric carbon nitride Z-scheme systems for photocatalysis. Cell Reports Physical Science, 2021, 2, 100355.	5.6	99
2891	Preparation and application of defective graphite phase carbon nitride photocatalysts. Chinese Science Bulletin, 2021, , .	0.7	1
2892	Efficient Combination of Gâ€C ₃ N ₄ and CDs for Enhanced Photocatalytic Performance: A Review of Synthesis, Strategies, and Applications. Small, 2021, 17, e2007523.	10.0	93
2893	Photocatalytic oxidation removal of fluoride ion in wastewater by g-C3N4/TiO2 under simulated visible light. Advanced Composites and Hybrid Materials, 2021, 4, 339-349.	21.1	54
2894	Facile Exfoliation for High-Quality Molybdenum Disulfide Nanoflakes and Relevant Field-Effect Transistors Developed With Thermal Treatment. Frontiers in Chemistry, 2021, 9, 650901.	3.6	8
2895	Organic load removal and microbial disinfection of raw domestic sewage using SrSnO3/g-C3N4 with sunlight. Environmental Science and Pollution Research, 2021, 28, 45009-45018.	5.3	3
2896	Salt-resistant nanosensor for fast sulfadimethoxine tracing based on oxygen-doped g-C3N4 nanoplates. Mikrochimica Acta, 2021, 188, 153.	5.0	0
2897	Highly Efficient Ag3PO4/g-C3N4 Z-Scheme Photocatalyst for Its Enhanced Photocatalytic Performance in Degradation of Rhodamine B and Phenol. Molecules, 2021, 26, 2062.	3.8	22
2898	Bifunctional Nitrogen-Doped Carbon Dots in g-C ₃ N ₄ /WO _{<i>x</i>/i>} Heterojunction for Enhanced Photocatalytic Water-Splitting Performance. Langmuir, 2021, 37, 4236-4247.	3.5	36
2899	Recent advances in silver bromide-based Z-scheme photocatalytic systems for environmental and energy applications: A review. Journal of Environmental Chemical Engineering, 2021, 9, 105157.	6.7	31
2900	Shape-dependent hydrogen generation performance of PtPd bimetallic co-catalyst coupled with C3N4 photocatalyst. Rare Metals, 2021, 40, 3554-3560.	7.1	20
2901	Rational design of catalysts towards energy-saving formaldehyde oxidation: A review. Functional Materials Letters, 2021, 14, 2130004.	1.2	1
2902	New structure candidates for the experimentally synthesized heptazine-based and triazine-based two dimensional graphitic carbon nitride. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114535.	2.7	2
2903	Lithium–Sulfur Battery Cathode Design: Tailoring Metalâ€Based Nanostructures for Robust Polysulfide Adsorption and Catalytic Conversion. Advanced Materials, 2021, 33, e2008654.	21.0	217
2904	Graphitic C ₂ N ₃ : An Allotrope of <i>g</i> C ₃ N ₄ Containing Active Azide Pentagons as Metal-Free Photocatalyst for Abundant H ₂ Bubble Evolution. ACS Nano, 2021, 15, 7208-7215.	14.6	60
2905	Construction of g-C3N4/Bi4Ti3O12 hollow nanofibers with highly efficient visible-light-driven photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 615, 126063.	4.7	20

#	Article	IF	CITATIONS
2906	Tubular Carbon Nitride with Hierarchical Network: Localized Charge Carrier Generation and Reduced Charge Recombination for Highâ€Performance Photocatalysis of H ₂ and H ₂ O ₂ Production. Solar Rrl, 2021, 5, 2000827.	5.8	15
2907	Alumina surface modified with graphitic carbon nitride: Synthesis, characterization and its application as photocatalyst. Diamond and Related Materials, 2021, 114, 108291.	3.9	12
2908	Comparison of Graphitic Carbon Nitrides Synthetized from Melamine and Melamine-Cyanurate Complex: Characterization and Photocatalytic Decomposition of Ofloxacin and Ampicillin. Materials, 2021, 14, 1967.	2.9	6
2909	Charge Behavior in Photocatalytic Hydrogen Production by Photo Electrochemical Test Based on Nanomaterial of CoS2 Modified g-C3N4. Nano, 2021, 16, 2150051.	1.0	1
2910	Advancing Graphitic Carbon Nitride-Based Photocatalysts toward Broadband Solar Energy Harvesting. , 2021, 3, 663-697.		63
2911	Applications of two-dimensional materials in food packaging. Trends in Food Science and Technology, 2021, 110, 443-457.	15.1	27
2912	Coordination of π-Delocalization in g-C ₃ N ₄ for Efficient Photocatalytic Hydrogen Evolution under Visible Light. ACS Applied Materials & Interfaces, 2021, 13, 20114-20124.	8.0	33
2913	A review on plasmonic nanoparticle-semiconductor photocatalysts for water splitting. Journal of Cleaner Production, 2021, 294, 126200.	9.3	65
2914	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. Energy & Fuels, 2021, 35, 6504-6526.	5.1	160
2915	TiO2@PCN core-shell nanoarrays decorated with Au nanoparticles for enhanced photoelectrochemical performance. Electrochimica Acta, 2021, 376, 138036.	5.2	6
2916	Molecular Triazine–Heptazine Junctions Promoting Exciton Dissociation for Overall Water Splitting with Visible Light. Journal of Physical Chemistry C, 2021, 125, 9818-9826.	3.1	55
2917	Covalent Organic Frameworks for Sunlight-driven Hydrogen Evolution. Chemistry Letters, 2021, 50, 676-686.	1.3	15
2918	Recent developments in the photocatalytic applications of covalent organic frameworks: A review. Journal of Cleaner Production, 2021, 291, 125822.	9.3	124
2919	Fabrication of CdS/ZnS/g-C3N4 Composites for Enhanced Visible-Light Photocatalytic Degradation Performance. IOP Conference Series: Earth and Environmental Science, 2021, 719, 042046.	0.3	1
2920	Electrochemiluminescence sensor based on cyclic peptides-recognition and Au nanoparticles assisted graphitic carbon nitride for glucose determination. Mikrochimica Acta, 2021, 188, 151.	5.0	8
2921	MOF-derived synthesis of MnS/In2S3 p-n heterojunctions with hierarchical structures for efficient	9.4	48
	photocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2021, 588, 547-556.	2.1	
2922	photocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2021, 588, 547-556. An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. Chemical Record, 2021, 21, 1811-1844.	5.8	29

#	Article	IF	CITATIONS
2924	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. Nano Today, 2021, 37, 101059.	11.9	82
2925	Faster electron injection and higher interface reactivity in g-C3N4/Fe2O3 nanohybrid for efficient photo-Fenton-like activity toward antibiotics degradation. Environmental Research, 2021, 195, 110842.	7.5	34
2926	State-of-the-art progress in overall water splitting of carbon nitride based photocatalysts. Frontiers in Energy, 2021, 15, 600-620.	2.3	13
2927	Ab-initio insights into electronic structures, optical and photocatalytic properties of Janus WXY (X/YÂ=ÂO, S, Se and Te). Applied Surface Science, 2021, 545, 148968.	6.1	18
2928	Facile synthesis of the Z-scheme graphite-like carbon nitride/silver/silver phosphate nanocomposite for photocatalytic oxidative removal of nitric oxides under visible light. Journal of Colloid and Interface Science, 2021, 588, 110-121.	9.4	29
2929	Objective Findings on the K-Doped <i>g</i> -C ₃ N ₄ Photocatalysts: The Presence and Influence of Organic Byproducts on K-Doped <i>g</i> -C ₃ N ₄ Photocatalysis. Langmuir, 2021, 37, 4859-4868.	3.5	32
2930	Pointâ€Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (gâ€C ₃ N ₄) Photocatalysts toward Artificial Photosynthesis. Small, 2021, 17, e2006851.	10.0	139
2931	Hierarchically Porous WO ₃ /CdWO ₄ Fiber-in-Tube Nanostructures Featuring Readily Accessible Active Sites and Enhanced Photocatalytic Effectiveness for Antibiotic Degradation in Water. ACS Applied Materials & Interfaces, 2021, 13, 21138-21148.	8.0	64
2932	The use of chemometric tools for screening and optimization of variables in the preparation and application of carbon-based materials. Journal of the Taiwan Institute of Chemical Engineers, 2021, 121, 321-336.	5.3	7
2933	Synergistic effect of citric acid and carbon dots modified g-C3N4 for enhancing photocatalytic reduction of Cr(VI). Journal of Water Supply: Research and Technology - AQUA, 2021, 70, 570-586.	1.4	2
2934	CoAl ₂ O ₄ –g-C ₃ N ₄ Nanocomposite Photocatalysts for Powerful Visible-Light-Driven Hydrogen Production. ACS Omega, 2021, 6, 10428-10436.	3.5	13
2935	Rational design of ultrahigh loading metal single-atoms (Co, Ni, Mo) anchored on in-situ pre-crosslinked guar gum derived N-doped carbon aerogel for efficient overall water splitting. Chemical Engineering Journal, 2021, 410, 128359.	12.7	41
2936	Metal-organic framework nanosheets and their composites for heterogeneous thermal catalysis: Recent progresses and challenges. Chinese Chemical Letters, 2021, 32, 3307-3321.	9.0	23
2937	Enhanced photocatalytic H2 production over g-C3N4/NiS hybrid photocatalyst. Materials Letters, 2021, 290, 129476.	2.6	13
2938	Carbon Defects Induced Delocalization of π Electrons Enables Efficient Charge Separation in Graphitic Carbon Nitride for Increased Photocatalytic H2 Generation. Catalysis Letters, 2022, 152, 669-678.	2.6	6
2939	Semiconductor heterojunction photocatalysts with near-infrared light antennas: a review. Journal Physics D: Applied Physics, 2021, 54, 313002.	2.8	12
2940	Can Hydrated Electrons be Produced from Water with Visible Light?. ChemPhotoChem, 2021, 5, 680-690.	3.0	4
2941	Computational and experimental evidence of Pd supported P-doped porous graphitic carbon nitride as a highly efficient and exceptionally durable photocatalyst for boosted visible-light-driven benzyl alcohol oxidation. Journal of Physics and Chemistry of Solids, 2021, 152, 109985.	4.0	11

#	Article	IF	CITATIONS
2942	Harnessing the Potential of Graphitic Carbon Nitride for Optoelectronic Applications. Advanced Optical Materials, 2021, 9, 2100146.	7.3	22
2943	Constructing Heterogeneous Direct Z-Scheme Photocatalysts Based on Metal–Organic Cages and Graphitic-C ₃ N ₄ for High-Efficiency Photocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 25960-25971.	8.0	29
2944	Boosting of photocatalytic hydrogen evolution via chlorine doping of polymeric carbon nitride. Beilstein Journal of Nanotechnology, 2021, 12, 473-484.	2.8	12
2945	Electron donation of non-oxide supports boosts O2 activation on nano-platinum catalysts. Nature Communications, 2021, 12, 2741.	12.8	72
2946	Defect-engineered 2D/2D hBN/g-C3N4 Z-scheme heterojunctions with full visible-light absorption: Efficient metal-free photocatalysts for hydrogen evolution. Applied Surface Science, 2021, 547, 149207.	6.1	51
2947	Promoting near-infrared photocatalytic activity of carbon-doped carbon nitride via solid alkali activation. Chinese Chemical Letters, 2021, 32, 3463-3468.	9.0	21
2948	Tubular CoFeP@CN as a Mott–Schottky Catalyst with Multiple Adsorption Sites for Robust Lithiumâ^'Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100432.	19.5	125
2949	Facile synthesis of C3N4-supported metal catalysts for efficient CO2 photoreduction. Nano Research, 2022, 15, 551-556.	10.4	57
2950	Photo-electro-Fenton-like process for rapid ciprofloxacin removal: The indispensable role of polyvalent manganese in Fe-free system. Science of the Total Environment, 2021, 768, 144368.	8.0	30
2951	Electrochemical immunosensor development based on core-shell high-crystalline graphitic carbon nitride@carbon dots and Cd0.5Zn0.5S/d-Ti3C2Tx MXene composite for heart-type fatty acid–binding protein detection. Mikrochimica Acta, 2021, 188, 182.	5.0	85
2952	Oxygen-doped carbon nitride/red phosphorus composite photocatalysts for effective visible-light-driven purification of wastewater. Materials Chemistry and Physics, 2021, 264, 124440.	4.0	8
2953	Covalent organic frameworks as robust materials for mitigation of environmental pollutants. Chemosphere, 2021, 270, 129523.	8.2	92
2954	LAYERED BISMUTH TUNGSTATE – HETEROGENEOUS PHOTOCATALYSIS FOR ENVIRONMENTAL REMEDIATION. Himiâ I HimiÄeskaâ Tehnologiâ, 2021, , 3-11.	0.0	0
2955	SrSnO3/g-C3N4 dry phase sunlight photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 412, 113255.	3.9	4
2956	Improving oxygen vacancies by cobalt doping in MoO ₂ nanorods for efficient electrocatalytic hydrogen evolution reaction. Nano Select, 2021, 2, 2148-2158.	3.7	9
2957	Tunable cobalt doping titanium nitride (Ti Co N) interlaced nanotubes enable an enhanced electronic synergy on visible-light driven hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 17143-17153.	7.1	5
2958	Single Pt atom-anchored C3N4: A bridging Pt–N bond boosted electron transfer for highly efficient photocatalytic H2 generation. Chemical Engineering Journal, 2021, 412, 128749.	12.7	69
2959	Alkali/alkaline-earth metal intercalated g-C3N4 induced charge redistribution and optimized photocatalysis: status and challenges. JPhys Energy, 2021, 3, 032008.	5.3	7

#	Article	IF	CITATIONS
2960	Upgrading poly(styrene oâ€divinylbenzene) beads: Incorporation of organomodified <scp>metalâ€free</scp> semiconductor graphitic carbon nitride through suspension photopolymerization to generate photoactive resins. Journal of Applied Polymer Science, 2021, 138, 50879.	2.6	8
2961	Topochemical Intercalation of Graphitic Carbon Nitride with Alkali Metals in Ethylenediamine. Journal of Physical Chemistry C, 2021, 125, 9947-9955.	3.1	6
2962	Metal-organic frameworks loaded on phosphorus-doped tubular carbon nitride for enhanced photocatalytic hydrogen production and amine oxidation. Journal of Colloid and Interface Science, 2021, 590, 1-11.	9.4	28
2963	Accurate design of hollow/tubular porous g-C3N4 from melamine-cyanuric acid supramolecular prepared with mechanochemical method. Chemical Engineering Journal, 2021, 411, 128400.	12.7	67
2964	Solar photothermal catalytic effect promotes carbonylation reaction based on palladium doped g-C3N4 catalyst. Materials Research Bulletin, 2021, 137, 111194.	5.2	7
2965	Activation of Carbonyl Oxygen Sites in βâ€Ketoenamineâ€Linked Covalent Organic Frameworks via Cyano Conjugation for Efficient Photocatalytic Hydrogen Evolution. Small, 2021, 17, e2101017.	10.0	34
2966	Controllable Synthesis of Metallic Ni3P–Ni Spheres on Graphitic Carbon Nitride Nanosheets to Promote Photocatalytic Hydrogen Generation. Topics in Catalysis, 2021, 64, 521-531.	2.8	4
2967	Enhancement of the visible-light absorption and charge mobility in a zinc porphyrin polymer/g-C3N4 heterojunction for promoting the oxidative coupling of amines. Applied Catalysis B: Environmental, 2021, 285, 119863.	20.2	49
2968	Metal–Organic Frameworks for Photo/Electrocatalysis. Advanced Energy and Sustainability Research, 2021, 2, 2100033.	5.8	123
2969	Graphene coupled TiO2 photocatalysts for environmental applications: A review. Chemosphere, 2021, 271, 129506.	8.2	132
2970	Flexible Photocatalytic Electrode Using Graphene, Nonâ€noble Metal, and Organic Semiconductors for Hydrogen Evolution Reaction. Energy Technology, 2021, 9, 2100123.	3.8	8
2971	An Earthâ€Abundant Niâ€Based Singleâ€Atom Catalyst for Selective Photodegradation of Pollutants. Solar Rrl, 2021, 5, 2100176.	5.8	39
2972	A highly efficient photocatalyst based on layered g-C3N4/SnS2 composites. Current Nanoscience, 2021, 17, .	1.2	0
2973	Agglomeration of Pt nanoparticles on the g-C ₃ N ₄ surface dominated by oriented attachment mechanism and way of inhibition. Materials Research Express, 2021, 8, 055504.	1.6	4
2974	One step preparation of green reduced copper oxide nanorods using <i>Citrus sinensis</i> L. peel extracts and evaluation of their photocatalytic degradation of Rose Bengal dye and antibacterial activity. Materials Technology, 2022, 37, 1230-1241.	3.0	3
2975	Review-Emerging Applications of g-C3N4 Films in Perovskite-Based Solar Cells. ECS Journal of Solid State Science and Technology, 0, , .	1.8	10
2976	Ligand-free Au nanoclusters/g-C3N4 ultra-thin nanosheets composite photocatalysts for efficient visible-light-driven photocatalytic H2 generation. Journal of Materials Science, 2021, 56, 13736-13751.	3.7	4
2977	2D Metalâ€Free Nanomaterials Beyond Graphene and Its Analogues toward Electrocatalysis Applications. Advanced Energy Materials, 2021, 11, 2101202.	19.5	24

#	Article	IF	CITATIONS
2978	Rapid water purification using modified graphitic carbon nitride and visible light. Applied Catalysis B: Environmental, 2021, 285, 119864.	20.2	30
2979	Catalytic Role of Metal Nanoparticles in Selectivity Control over Photodehydrogenative Coupling of Primary Amines to Imines and Secondary Amines. ACS Catalysis, 2021, 11, 6656-6661.	11.2	43
2980	Fabrication, characterization of O doped g-C3N4 materials via a green ascorbic acid-assisted calcination route. Solid State Sciences, 2021, 115, 106605.	3.2	14
2981	A critical review of g-C3N4-based photocatalytic membrane for water purification. Chemical Engineering Journal, 2021, 412, 128663.	12.7	144
2982	The charge transfer pathway of CoO QDs/g-C3N4 composites for highly efficient photocatalytic hydrogen evolution. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 415, 113305.	3.9	7
2983	Directing photocatalytic pathway to exceedingly high antibacterial activity in water by functionalizing holey ultrathin nanosheets of graphitic carbon nitride. Water Research, 2021, 198, 117125.	11.3	68
2984	Graphite Carbon Nitride and Its Composites for Medicine and Health Applications. Chemistry - an Asian Journal, 2021, 16, 2003-2013.	3.3	12
2985	Progress and Perspectives in Photo―and Electrochemicalâ€Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production. Advanced Energy Materials, 2021, 11, 2101180.	19.5	200
2986	Graphitic Carbon Nitride/CdSe Quantum Dot/Iron Carbonyl Cluster Composite for Enhanced Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 6280-6289.	5.0	18
2987	A review of clay based photocatalysts: Role of phyllosilicate mineral in interfacial assembly, microstructure control and performance regulation. Chemosphere, 2021, 273, 129723.	8.2	57
2988	Photocatalytic conversion of CO to fuels with water by B-doped graphene/g-C3N4 heterostructure. Science Bulletin, 2021, 66, 1186-1193.	9.0	19
2989	Interfacial electron transfer for carbon dioxide valorization in hybrid inorganic-microbial systems. Applied Energy, 2021, 292, 116885.	10.1	20
2990	Crystal phase-dependent generation of mobile OH radicals on TiO2: Revisiting the photocatalytic oxidation mechanism of anatase and rutile. Applied Catalysis B: Environmental, 2021, 286, 119905.	20.2	61
2991	Highly efficient flower-like Dy3+-doped Bi2MoO6 photocatalyst under simulated sunlight: Design, fabrication and characterization. Optical Materials, 2021, 116, 111094.	3.6	10
2993	In situ growing graphene on g-C3N4 with barrier-free interface and polarization electric field for strongly boosting solar energy conversion into H2 energy. Applied Catalysis B: Environmental, 2021, 287, 119986.	20.2	38
2994	A novel biodegradable porous graphitic carbon nitride/poly(lactic acid) fiber photocatalyst for efficient elimination of carbamazepine under solar irradiation. Chemical Engineering Journal, 2021, 414, 128845.	12.7	30
2995	Synthesis, application and catalytic performance of layered double hydroxide based catalysts in advanced oxidation processes for wastewater decontamination: A review. Chemical Engineering Journal, 2021, 414, 128713.	12.7	96
2996	In-situ intramolecular synthesis of tubular carbon nitride S-scheme homojunctions with exceptional in-plane exciton splitting and mechanism insight. Chemical Engineering Journal, 2021, 414, 128802.	12.7	48

#	Article	IF	CITATIONS
2997	A Facile One Step Synthesis of MoS2/g-C3N4 Photocatalyst with Enhanced Visible Light Photocatalytic Hydrogen Production. Catalysis Letters, 2022, 152, 972-979.	2.6	8
2998	Heptazine-Based π-Conjugated Materials for Light-Emitting. Frontiers in Chemistry, 2021, 9, 717569.	3.6	12
2999	Hexagonal carbon nitride microtube doped with tungsten and nitrogen vacancies: Photocatalytic hydrogen evolution and efficient Fenton-like photocatalytic degradation of p-nitrophenol. Separation and Purification Technology, 2021, 264, 118457.	7.9	17
3000	New g-C3N4/GO/MoS2 composites as efficient photocatalyst for photocathodic protection of 304 stainless steel. Water Science and Technology, 2021, 84, 499-511.	2.5	7
3002	On P-doping of graphitic carbon nitride with hexachlorotriphosphazene as a source of phosphorus. Applied Surface Science, 2021, 552, 149490.	6.1	17
3003	Effect of Carbon Doping on CO ₂ â€Reduction Activity of Single Cobalt Sites in Graphitic Carbon Nitride. ChemNanoMat, 2021, 7, 1051-1056.	2.8	15
3004	Direct Z-scheme Layered N-doped H+Ti2NbO7â^'/g-C3N4 Heterojunctions for Visible-light-driven Photocatalytic H2 Production and RhB Degradation. Catalysis Letters, 0, , 1.	2.6	3
3005	Two-dimensional graphitic carbon nitride-based membranes for filtration process: Progresses and challenges. Chemical Engineering Journal, 2022, 427, 130955.	12.7	23
3006	Structure and photocatalytic performance comparison of two distinctive copper phenylacetylides. Applied Organometallic Chemistry, 2021, 35, e6352.	3.5	2
3007	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. ACS Applied Energy Materials, 2021, 4, 5677-5686.	5.1	8
3008	Unravelling the Reaction Mechanisms of N ₂ Fixation on Molybdenum Nitride: A Full DFT Study from the Pristine Surface to Heteroatom Anchoring. ChemSusChem, 2021, 14, 3257-3266.	6.8	22
3009	The synergistic effect in metal-free graphene oxide coupled graphitic carbon nitride/light/peroxymonosulfate system: Photothermal effect and catalyst stability. Carbon, 2021, 178, 81-91.	10.3	27
3010	A dual strategy for synthesizing carbon/defect comodified polymeric carbon nitride porous nanotubes with boosted photocatalytic hydrogen evolution and synchronous contaminant degradation. Applied Catalysis B: Environmental, 2021, 287, 119995.	20.2	66
3012	Ionic liquid-assisted synthesis of porous boron-doped graphitic carbon nitride for photocatalytic hydrogen production. Chemosphere, 2021, 272, 129953.	8.2	49
3013	Insight into Organic Pollutant Adsorption Characteristics on a g-C ₃ N ₄ Surface by Attenuated Total Reflection Spectroscopy and Molecular Dynamics Simulation. Langmuir, 2021, 37, 7655-7667.	3.5	12
3014	A 3D peony-like sulfur-doped carbon nitride synthesized by self-assembly for efficient photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 20481-20491.	7.1	24
3015	Recent advance of graphene/semiconductor composite nanocatalysts: Synthesis, mechanism, applications and perspectives. Chemical Engineering Journal, 2021, 414, 128795.	12.7	42
3016	Construction of Few-Layer Ti ₃ C ₂ MXene and Boron-Doped g-C ₃ N ₄ for Enhanced Photocatalytic CO ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2021, 9, 8425-8434.	6.7	63

#	Article	IF	CITATIONS
3017	Two-Dimensional Layered Co(OH) ₂ /g-C ₃ N ₄ /Ni(OH) ₂ Ternary Nanocomposites for Enhanced Visible-Light Photocatalytic H ₂ -Production Activity. ACS Applied Energy Materials, 2021, 4, 6340-6347.	5.1	27
3018	Photocatalytic Water Splitting Reaction Catalyzed by Ion-Exchanged Salts of Potassium Poly(heptazine) Tj ETQq1	1,0.7843 3.1	lårgBT /O
3019	1,2,3-Triazole-based conjugated porous polymers for visible light induced oxidative organic transformations. Applied Catalysis B: Environmental, 2021, 287, 119984.	20.2	24
3020	Current Developments in the Chemical Upcycling of Waste Plastics Using Alternative Energy Sources. ChemSusChem, 2021, 14, 4152-4166.	6.8	35
3021	Inâ€depth Understanding of the Effects of Intramolecular Charge Transfer on Carbon Nitride Based Photocatalystsâ€. Chinese Journal of Chemistry, 2021, 39, 2044-2053.	4.9	18
3023	Nanosized BaSnO ₃ as Electron Transport Promoter Coupled with gâ€C ₃ N ₄ toward Enhanced Photocatalytic H ₂ Production. Advanced Sustainable Systems, 2021, 5, 2100138.	5.3	13
3024	Heterogeneous catalysts for the hydrogenation of amine/alkali hydroxide solvent captured CO 2 to formate: A review. , 2021, 11, 807-823.		14
3025	Synergistically enhanced single-atomic site Fe by Fe3C@C for boosted oxygen reduction in neutral electrolyte. Nano Energy, 2021, 84, 105840.	16.0	65
3026	Z-scheme g-C3N4 nanosheet photocatalyst decorated with mesoporous CdS for the photoreduction of carbon dioxide. Ceramics International, 2021, 47, 17210-17219.	4.8	25
3027	One-pot synthesis of porous g-C3N4 nanosheets with enhanced photocatalytic activity under visible light. Diamond and Related Materials, 2021, 116, 108416.	3.9	16
3028	g-C3N4 Sensitized by an Indoline Dye for Photocatalytic H2 Evolution. Processes, 2021, 9, 1055.	2.8	2
3029	Synthesis of Cu Single Atoms Supported on Mesoporous Graphitic Carbon Nitride and Their Application in Liquid-Phase Aerobic Oxidation of Cyclohexene. ACS Catalysis, 2021, 11, 7863-7875.	11.2	56
3030	Engineering carbon nanocatalysts towards efficient degradation of emerging organic contaminants via persulfate activation: A review. Chinese Chemical Letters, 2022, 33, 1-10.	9.0	88
3031	Algebraic Polynomial Based Topological Study of Graphite Carbon Nitride (g-) Molecular Structure Polycyclic Aromatic Compounds, 0, , 1-22.	2.6	4
3032	Carboxyl groups on g-C3N4 for boosting the photocatalytic U(VI) reduction in the presence of carbonates. Chemical Engineering Journal, 2021, 414, 128810.	12.7	81
3033	Mechanistic analysis of multiple processes controlling solar-driven H2O2 synthesis using engineered polymeric carbon nitride. Nature Communications, 2021, 12, 3701.	12.8	175
3034	In situ synthesis of g-C3N4 by glass-assisted annealing route to boost the efficiency of perovskite solar cells. Journal of Colloid and Interface Science, 2021, 591, 326-333.	9.4	17
3035	Preparation, Characterization of Graphitic Carbon Nitride Photo-Catalytic Nanocomposites and Their Application in Wastewater Remediation: A Review. Crystals, 2021, 11, 723.	2.2	17

#		IE	CITATIONS
#	Rimetallic synergetic regulating effect on electronic structure in cobalt/vanadium co-doned carbon	IF	CHAHONS
3036	nitride for boosting photocatalytic performance. Applied Catalysis B: Environmental, 2021, 287, 119954.	20.2	218
3037	Photoelectrochemical Water‧plitting Using CuOâ€Based Electrodes for Hydrogen Production: A Review. Advanced Materials, 2021, 33, e2007285.	21.0	127
3038	Nano-construction of CuO nanorods decorated with g-C3N4 nanosheets (CuO/g-C3N4-NS) as a superb colloidal nanocatalyst for liquid phase C H conversion of aldehydes to amides. Journal of Molecular Liquids, 2021, 334, 116063.	4.9	19
3039	Imide modification coupling with NH2-MIL-53(Fe) boosts the photocatalytic performance of graphitic carbon nitride for efficient water remediation. Journal of Catalysis, 2021, 399, 192-200.	6.2	26
3040	Twoâ€step pyrolysis preparation of coâ€doped porous g 3 N 4 with Co–N coordination bond for dye efficient degradation driven by visible light. Journal of Chemical Technology and Biotechnology, 2021, 96, 2872-2881.	3.2	2
3041	Combination of Au-Ag Plasmonic Nanoparticles of Varied Compositions with Carbon Nitride for Enhanced Photocatalytic Degradation of Ibuprofen under Visible Light. Materials, 2021, 14, 3912.	2.9	11
3042	K–Na co-doping in crystalline polymeric carbon nitride for highly improved photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 26318-26328.	7.1	21
3043	Modulating Local Charge Distribution of Carbon Nitride for Promoting Exciton Dissociation and Chargeâ€Induced Reactions. Small, 2021, 17, e2100698.	10.0	18
3044	Near-Infrared-Triggered Nitrogen Fixation over Upconversion Nanoparticles Assembled Carbon Nitride Nanotubes with Nitrogen Vacancies. ACS Applied Materials & Interfaces, 2021, 13, 32937-32947.	8.0	21
3045	Heterogeneous Carbonylative Sonogashira Reaction Based on Pd/g ₃ N ₄ Catalyst by Using Formic Acid as the CO Source. ChemistrySelect, 2021, 6, 7037-7039.	1.5	7
3046	Photoinduced Selfâ€Assembly of Carbon Nitride Quantum Dots. Angewandte Chemie - International Edition, 2021, 60, 19413-19418.	13.8	39
3047	Defectâ€Engineered Nanozymeâ€Linked Receptors. Small, 2021, 17, e2101907.	10.0	36
3048	Recent progress of g-C3N4 applied in solar cells. Journal of Materiomics, 2021, 7, 728-741.	5.7	23
3049	Graphitic carbon nitride (g-C3N4) incorporated TiO2–B nanowires as efficient photoanode material in dye sensitized solar cells. Materials Chemistry and Physics, 2021, 266, 124520.	4.0	19
3050	Strategies to extend near-infrared light harvest of polymer carbon nitride photocatalysts. Coordination Chemistry Reviews, 2021, 439, 213947.	18.8	94
3051	2D Amorphous CoO Incorporated gâ€C ₃ N ₄ Nanotubes for Improved Photocatalytic Performance. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100254.	2.4	6
3052	Copper single-atoms embedded in 2D graphitic carbon nitride for the CO2 reduction. Npj 2D Materials and Applications, 2021, 5, .	7.9	54
3053	Demonstration of electronic devices in graphitic carbon nitride crystalline film. AIP Advances, 2021, 11, .	1.3	5

#	Article	IF	CITATIONS
3054	Photocatalytic Fixation of Molecular Nitrogen in Systems Based on Graphite-Like Carbon Nitride: a Review. Theoretical and Experimental Chemistry, 2021, 57, 85-112.	0.8	4
3055	The construction of stable Ru/RuO2 porous reticular heterostructure with highly efficient electrocatalytic activity for oxygen evolution reaction. Materials Characterization, 2021, 177, 111201.	4.4	13
3056	Photoinduced Selfâ€Assembly of Carbon Nitride Quantum Dots. Angewandte Chemie, 2021, 133, 19562-19567.	2.0	4
3057	Simple hydrothermal synthesis of g-C3N4/Ni9S8 composites for efficient photocatalytic H2 evolution. Journal of Materials Science: Materials in Electronics, 2021, 32, 21643-21657.	2.2	2
3058	A Superficial Intramolecular Alignment of Carbon Nitride through Conjugated Monomer for Optimized Photocatalytic CO2 Reduction. Catalysts, 2021, 11, 935.	3.5	36
3059	Two-Dimensional In ₂ X ₂ Xâ \in^2 (X and Xâ \in^2 = S, Se, and Te) Monolayers with an Intrinsic Electric Field for High-Performance Photocatalytic and Piezoelectric Applications. ACS Applied Materials & amp; Interfaces, 2021, 13, 34178-34187.	8.0	38
3060	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. Nano-Micro Letters, 2021, 13, 156.	27.0	71
3061	Rational design of kaolinite-based photocatalytic materials for environment decontamination. Applied Clay Science, 2021, 208, 106098.	5.2	30
3062	Fabrication of graphitic carbon nitride functionalized P–CoFe2O4 for the removal of tetracycline under visible light: Optimization, degradation pathways and mechanism evaluation. Chemosphere, 2021, 274, 129783.	8.2	38
3063	Surface modification induced construction of core-shell homojunction of polymeric carbon nitride for boosted photocatalytic performance. Journal of Colloid and Interface Science, 2021, 594, 64-72.	9.4	11
3064	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. Materials Science and Engineering Reports, 2021, 145, 100610.	31.8	145
3065	Rare-Earth Doping Graphitic Carbon Nitride Endows Distinctive Multiple Emissions with Large Stokes Shifts. CCS Chemistry, 2022, 4, 1990-1999.	7.8	7
3066	Na-Doped Graphitic Carbon Nitride for Removal of Aqueous Contaminants via Adsorption and Photodegradation. ACS Applied Nano Materials, 2021, 4, 7746-7757.	5.0	15
3067	Fabricating intramolecular donor-acceptor system via covalent bonding of carbazole to carbon nitride for excellent photocatalytic performance towards CO2 conversion. Journal of Colloid and Interface Science, 2021, 594, 550-560.	9.4	18
3068	Facile synthesis of nitrogen-vacancy pothole-rich few-layer g-C3N4 for photocatalytic nitrogen fixation into nitrate and ammonia. Journal of Alloys and Compounds, 2021, 870, 159298.	5.5	28
3069	Salt-air template synthesis of Na and O doped porous graphitic carbon nitride nanorods with exceptional photocatalytic H2 evolution activity. Carbon, 2021, 179, 42-52.	10.3	22
3070	Nonadiabatic Dynamics of Photocatalytic Water Splitting on A Polymeric Semiconductor. Nano Letters, 2021, 21, 6449-6455.	9.1	22
3071	Dual Functions of CO ₂ Molecular Activation and 4 <i>f</i> Levels as Electron Transport Bridge in Dysprosium Single Atom Composite Photocatalysts with Enhanced Visibleâ€Light Photoactivities. Advanced Functional Materials. 2021. 31. 2104976.	14.9	43

#	Article	IF	CITATIONS
3072	Rational Design and Application of Covalent Organic Frameworks for Solar Fuel Production. Molecules, 2021, 26, 4181.	3.8	8
3073	Fluorescent Carbon Nitride Macrostructures Derived from Triazineâ€Based Cocrystals. Advanced Optical Materials, 2021, 9, 2100683.	7.3	8
3074	In situ synthesis of C3N4/PPy/MnO2 nanocomposite as a high performance active material for asymmetric supercapacitor. Ionics, 2021, 27, 4057-4067.	2.4	18
3075	Supercritical CO ₂ â€Tailored 2D Oxygenâ€doped Amorphous Carbon Nitride for Enhanced Photocatalytic Activity. Energy and Environmental Materials, 2022, 5, 912-917.	12.8	24
3076	Few-layered g-C ₃ N ₄ -derived core–shell isotype heterojunction photocatalysts for efficient environmental remediation. Functional Materials Letters, 2021, 14, 2151032.	1.2	1
3077	Facile fabrication of sulfur-doped Cu2O and g-C3N4 with Z-scheme structure for enhanced photocatalytic water splitting performance. Materials Chemistry and Physics, 2021, 266, 124542.	4.0	13
3078	Unmasking the Role of an Amorphous/Amorphous Interface and a Crystalline/Amorphous Interface in the Transition of Charge Carriers on the CN/SiO ₂ /WO ₃ Photocatalyst. ACS Applied Materials & amp; Interfaces, 2021, 13, 31785-31798.	8.0	20
3079	Synthesis, structure, and selected photocatalytic applications of graphitic carbon nitride: a review. Journal of Materials Science: Materials in Electronics, 2021, 32, 18512-18543.	2.2	13
3080	Engineered Polymeric Carbon Nitride Additive for Energy Storage Materials: A Review. Advanced Functional Materials, 2021, 31, 2102300.	14.9	26
3081	A facile hydrothermal synthesis of few-layer oxygen-doped g-C3N4 with enhanced visible light-responsive photocatalytic activity. Journal of Alloys and Compounds, 2021, 869, 159292.	5.5	42
3082	Role of alkali-cyano group interaction in g-C3N4 based catalysts for hydrogen photo-production. Catalysis Today, 2022, 394-396, 25-33.	4.4	6
3083	Highly Efficient Sâ€g N/Moâ€368 Catalyst for Synergistically NADH Regeneration Under Solar Light. Photochemistry and Photobiology, 2022, 98, 160-168.	2.5	6
3084	A comprehensive review on graphitic carbon nitride based electrochemical and biosensors for environmental and healthcare applications. TrAC - Trends in Analytical Chemistry, 2021, 140, 116274.	11.4	82
3085	The origin of enhanced photocatalytic activity in g-C3N4/TiO2 heterostructure revealed by DFT calculations. Journal of Colloid and Interface Science, 2021, 593, 133-141.	9.4	59
3086	Emerging graphitic carbon nitride-based membranes for water purification. Water Research, 2021, 200, 117207.	11.3	53
3087	Z-scheme g-C3N4-AQ-MoO3 photocatalyst with unique electron transfer channel and large reduction area for enhanced sunlight photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2021, 288, 120025.	20.2	86
3088	Hydrogel photocatalysts for efficient energy conversion and environmental treatment. Frontiers in Energy, 2021, 15, 577-595.	2.3	14
3089	Green Synthesis of Heterogeneous Visible-Light-Active Photocatalysts: Recent Advances. Photochem, 2021, 1, 147-166.	2.2	15

#	Article	IF	CITATIONS
3090	Highâ€Performance Stable Perovskite Solar Cell via Defect Passivation With Constructing Tunable Graphitic Carbon Nitride. Solar Rrl, 2021, 5, 2100257.	5.8	9
3091	Unique hollow heterostructured CdS/Cd0.5Zn0.5S-Mo1â^'xWxS2: Highly-improved visible-light-driven H2 generation via synergy of Cd0.5Zn0.5S protective shell and defect-rich Mo1â^'xWXS2 cocatalyst. Nano Research, 2022, 15, 985-995.	10.4	15
3092	Photoredox atalyzed Simultaneous Olefin Hydrogenation and Alcohol Oxidation over Crystalline Porous Polymeric Carbon Nitride. ChemSusChem, 2021, 14, 3344-3350.	6.8	16
3093	Enhanced photocatalytic degradation of 4-chlorophenol under visible light over carbon nitride nanosheets with carbon vacancies. Nanotechnology, 2021, 32, 415704.	2.6	6
3094	On Degree Based Topological Co-Indices of Graphite Carbon Nitride. Polycyclic Aromatic Compounds, 0, , 1-10.	2.6	5
3095	Photocatalyst-enzyme hybrid systems for light-driven biotransformation. Biotechnology Advances, 2022, 54, 107808.	11.7	25
3096	AgCl/Au/g-C3N4 ternary composites: Efficient photocatalysts for degradation of anionic dyes. Journal of Alloys and Compounds, 2021, 868, 159266.	5.5	26
3097	Visible-light enabled C4-thiocyanation of pyrazoles by graphite-phase carbon nitride (g-C3N4). Tetrahedron Letters, 2021, 77, 153253.	1.4	15
3098	MoS ₂ based ternary composites: review on heterogeneous materials as catalyst for photocatalytic degradation. Catalysis Reviews - Science and Engineering, 2023, 65, 620-693.	12.9	28
3099	Electronic structures and physical properties of Mg, C, and S doped g-GaN. Superlattices and Microstructures, 2021, 156, 106930.	3.1	5
3100	Direct Electrochemical Storage of Solar Energy in Câ€Rich Polymeric Carbon Nitride Cell. Advanced Energy and Sustainability Research, 0, , 2100111.	5.8	1
3101	Excellent stability of Pd/mpg-C3N4 in catalytic hydrodebenzylation of 2,4,6,8,10,12-Hexabenzyl-2,4,6,8,10,12- hexaazaisowurtzitane (HBIW). Applied Catalysis A: General, 2021, 624, 118310.	4.3	4
3102	Oxygen vacancies boosted charge separation towards enhanced photodegradation ability over 3D/2D Z-scheme BiO1â^'XBr/Fe2O3 heterostructures. Separation and Purification Technology, 2021, 269, 118693.	7.9	27
3103	Engineering Durable Superhydrophobic Photocatalyst for Oilâ€Water Separation and Degradation of Chemical Pollutants. ChemistrySelect, 2021, 6, 7271-7277.	1.5	3
3104	Tuning band structure of graphitic carbon nitride for efficient degradation of sulfamethazine: Atmospheric condition and theoretical calculation. Chinese Chemical Letters, 2022, 33, 1385-1389.	9.0	32
3105	Improvement in performance of g-C3N4 nanosheets blended PES ultrafiltration membranes including biological properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 623, 126571.	4.7	15
3106	Efficient synthesis of 2-trifluoromethyl-benzimidazoles via cascade annulation of trifluoroacetimidoyl chlorides and amines based on a heterogeneous copper doped g-C3N4 catalyst. Molecular Catalysis, 2021, 513, 111767.	2.0	3
3107	Persulfate-enhanced degradation of ciprofloxacin with SiC/g-C3N4 photocatalyst under visible light irradiation. Chemosphere, 2021, 276, 130217.	8.2	26

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#	ARTICLE	IF	CITATIONS
3108	Facile synthesis of graphitic carbon nitride from acetic acid pretreatment to activate persulfate in presence of blue light for photocatalytic removal of metronidazole. Chemosphere, 2021, 276, 130171.	8.2	8
3109	Cl-doped carbon nitride nanostrips for remarkably improving visible-light photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 28591-28601.	7.1	15
3110	Transition metals decorated g-C3N4/N-doped carbon nanotube catalysts for water splitting: A review. Journal of Electroanalytical Chemistry, 2021, 895, 115510.	3.8	59
3111	Synthesis of crystalline carbon nitride with enhanced photocatalytic NO removal performance: An experimental and DFT theoretical study. Journal of Materials Science and Technology, 2021, 83, 113-122.	10.7	15
3112	Construction of g 3 N 4 â€Ferrocene Copolymers for Enhanced Visibleâ€Light Photocatalytic Activity. ChemistrySelect, 2021, 6, 8114-8119.	1.5	1
3113	Rationally designed ternary CdSe/WS2/g-C3N4 hybrid photocatalysts with significantly enhanced hydrogen evolution activity and mechanism insight. International Journal of Hydrogen Energy, 2021, 46, 30344-30354.	7.1	24
3114	Efficient removal of high-concentration copper ions from wastewater via 2D g-C3N4 photocatalytic membrane filtration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 623, 126714.	4.7	27
3115	Activation of Ni2V2O7 to nonstoichiometric NiV3O8 for solar-driven photoelectrochemical water oxidation. Journal of Environmental Chemical Engineering, 2021, 9, 105526.	6.7	8
3116	Hybrid Porous Crystalline Materials from Metal Organic Frameworks and Covalent Organic Frameworks. Advanced Science, 2021, 8, e2101883.	11.2	83
3117	Signal-on photoelectrochemical immunoassay mediated by the etching reaction of oxygen/phosphorus co-doped g-C3N4/AgBr/MnO2 nanohybrids. Analytica Chimica Acta, 2021, 1171, 338680.	5.4	26
3118	Modification of graphitic carbon nitride by elemental boron cocatalyst with high-efficient charge transfer and photothermal conversion. Chemical Engineering Journal, 2021, 417, 129203.	12.7	20
3119	Ternary nanocomposites of mesoporous graphitic carbon nitride/black phosphorus/gold nanoparticles (mpg-CN/BP-Au) for photocatalytic hydrogen evolution and electrochemical sensing of paracetamol. Applied Surface Science, 2021, 557, 149755.	6.1	32
3120	Disordered nitrogen-defect-rich porous carbon nitride photocatalyst for highly efficient H2 evolution under visible-light irradiation. Carbon, 2021, 181, 193-203.	10.3	81
3121	A review on the potential of photocatalysis in combatting SARS-CoV-2 in wastewater. Journal of Water Process Engineering, 2021, 42, 102111.	5.6	29
3122	Highly fluorescent g-C3N4 nanobelts derived from bulk g-C3N4 for NO2 gas sensing. Journal of Hazardous Materials, 2021, 416, 126195.	12.4	33
3123	Enhanced photodegradation of toxic volatile organic pollutants using Ni-doped graphitic carbon nitride under natural solar light. Solar Energy, 2021, 224, 18-26.	6.1	18
3124	Covalent organic framework-based materials: Synthesis, modification, and application in environmental remediation. Coordination Chemistry Reviews, 2021, 441, 213989.	18.8	91
3125	Highly dispersed CeO2– nanoparticles with rich oxygen vacancies enhance photocatalytic performance of g-C3N4 toward methyl orange degradation under visible light irradiation. Journal of Rare Earths, 2022, 40, 1255-1263.	4.8	13

#	Article	IF	CITATIONS
3126	Insights Into the Mechanism of Energy Transfer with Poly(Heptazine Imide)s in a Deoximation Reaction. ChemPhotoChem, 2021, 5, 1020-1025.	3.0	8
3127	xmlns:mml="http://www.w3.org/1998/Math/Math/ML" display="inline" id="d1e446" altimg="si6.svg"> <mml:msub><mml:mrow /><mml:mrow></mml:mrow></mml:mrow </mml:msub> O <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e454"</mml:math 	6.1	16
3128	Carbon Nitride Quantum Dot-Embedded Poly(vinyl alcohol) Transparent Thin Films for Greenish-Yellow Light-Emitting Diodes. ACS Omega, 2021, 6, 22840-22847.	3.5	3
3129	Ni integrated S-gC3N4/BiOBr based Type-II heterojunction as a durable catalyst for photoelectrochemical water splitting. Renewable Energy, 2021, 173, 507-519.	8.9	25
3130	Comparative insight into effect of hybridizing potassium and hydrogen ions on photocatalytic Reduction/Oxidization behavior of g-C3N4 nanocrystals. Chemical Engineering Journal, 2021, 417, 129187.	12.7	27
3131	Doping of graphitic carbon nitride with oxygen by means of cyanuric acid: Properties and photocatalytic applications. Journal of Environmental Chemical Engineering, 2021, 9, 105498.	6.7	22
3132	Photocatalytic hydrogen evolution over a nickel complex anchoring to thiophene embedded g-C3N4. Journal of Colloid and Interface Science, 2021, 596, 75-88.	9.4	32
3133	Recent advances in strategies to modify MIL-125 (Ti) and its environmental applications. Journal of Molecular Liquids, 2021, 335, 116108.	4.9	98
3134	Recent progress on black phosphorus quantum dots for full-spectrum solar-to-chemical energy conversion. Nano Today, 2021, 39, 101183.	11.9	32
3135	Porous g-C3N4-encapsulated TiO2 hollow sphere as a high-performance Z-scheme hybrid for solar-induced photocatalytic abatement of environmentally toxic pharmaceuticals. Journal of Materials Science and Technology, 2021, 82, 21-32.	10.7	28
3136	Various Material Development Strategies for Suitable Catalysts of Photo Catalytic Water Splitting to Green Fuel H2:A Critical Review. Material Science Research India, 2021, 18, 108-142.	0.7	3
3137	Review on application of perylene diimide (PDI)-based materials in environment: Pollutant detection and degradation. Science of the Total Environment, 2021, 780, 146483.	8.0	49
3138	N-doped graphitic C3N4 nanosheets decorated with CoP nanoparticles: A highly efficient activator in singlet oxygen dominated visible-light-driven peroxymonosulfate activation for degradation of pharmaceuticals and personal care products. Journal of Hazardous Materials, 2021, 416, 125891.	12.4	34
3139	Facile construction of novel ZnO and TiO ₂ combined g-C ₃ N ₄ nanocomposite for superior visible-light photocatalytic organic pollutant degradation. Materials Technology, 2022, 37, 1651-1664.	3.0	9
3140	Sandwich-like Z-scheme g-C3N4/reduced graphene oxide@TiO2composite for enhanced visible light photoactivity. Materials Research Bulletin, 2021, 140, 111292.	5.2	4
3141	Bridging-nitrogen defects modified graphitic carbon nitride nanosheet for boosted photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 27014-27025.	7.1	16
3142	Series of new coordination polymers based flexible tricarboxylate as photocatalysts for Rh B dye degradation. Journal of Solid State Chemistry, 2021, 300, 122233.	2.9	5
3143	Silver grafted graphitic-carbon nitride ternary hetero-junction Ag/gC3N4(Urea)-gC3N4(Thiourea) withÂefficient charge transfer for enhancedÂvisible-lightÂphotocatalytic green H2Âproduction. Applied Surface Science, 2021, 558, 149900.	6.1	54

#	Article	IF	Citations
3144	Progress on the photocatalytic reduction of hexavalent Cr (VI) using engineered graphitic carbon nitride. Chemical Engineering Research and Design, 2021, 152, 663-678.	5.6	57
3145	Porous g-C3N4 with defects for the efficient dye photodegradation under visible light. Water Science and Technology, 2021, 84, 1354-1365.	2.5	7
3146	Nitrogen vacancy and hydrogen substitution mediated tunable optoelectronic properties of g-C3N4 2D layered structures: Applications towards blue LED to broad-band photodetection. Applied Surface Science, 2021, 556, 149773.	6.1	14
3147	0D/1D Z-scheme g-C3N4 quantum dot/WO3 composite for efficient Cr (VI) photoreduction under visible light. Journal of Environmental Chemical Engineering, 2021, 9, 105292.	6.7	27
3148	Improvement in photocatalytic stability of AgBr under visible light through melt processing. Journal of Catalysis, 2021, 400, 160-165.	6.2	9
3149	Impact of graphitic carbon nitrides synthesized from different precursors on Schottky junction characteristics. Turkish Journal of Chemistry, 2021, 45, 1057-1069.	1.2	4
3150	Rational Design of Semiconductor Heterojunctions for Photocatalysis. Chemistry - A European Journal, 2021, 27, 13306-13317.	3.3	44
3151	Enhanced Fenton-like catalytic activity and stability of g-C3N4 nanosheet-wrapped copper phosphide with strong anti-interference ability: Kinetics and mechanistic study. Journal of Colloid and Interface Science, 2021, 595, 129-141.	9.4	22
3152	Nanocomposite catalyst of graphitic carbon nitride and Cu/Fe mixed metal oxide for electrochemical CO2 reduction to CO. Applied Catalysis B: Environmental, 2021, 291, 120052.	20.2	61
3153	Isotype junctioned nanotubes and nanosheets of g-C3N4 for enhanced visible-light driven photocatalytic H2O2 production. Journal of Materials Research, 2021, 36, 3495-3505.	2.6	6
3154	Efficient light-free activation of peroxymonosulfate by carbon ring conjugated carbon nitride for elimination of organic pollutants. Chemical Engineering Journal, 2021, 420, 129671.	12.7	24
3155	Layered graphitic carbon nitride: nano-heterostructures, photo/electro-chemical performance and trends. Journal of Nanostructure in Chemistry, 2022, 12, 669-691.	9.1	34
3156	A phosphorus-doped g-C3N4 nanosheets as an efficient and sensitive fluorescent probe for Fe3+ detection. Optical Materials, 2021, 119, 111393.	3.6	9
3157	A comprehensive survey upon diverse and prolific applications of chitosan-based catalytic systems in one-pot multi-component synthesis of heterocyclic rings. International Journal of Biological Macromolecules, 2021, 186, 1003-1166.	7.5	30
3158	High efficiency photocatalytic CO2 reduction realized by Ca2+ and HDMP group Co-modified graphitic carbon nitride. International Journal of Hydrogen Energy, 2021, 46, 32893-32903.	7.1	10
3159	Nanoenhanced Photocatalytic Approach for Separation of Oily Emulsion from Aqueous Effluents: Recent Trends, Future Perspective and Challenges. Green Chemistry and Sustainable Technology, 2022, , 565-601.	0.7	1
3160	Investigation on novel Cu2O modified g-C3N4/ZnO heterostructures for efficient photocatalytic dye degradation performance under visible-light exposure. Colloids and Interface Science Communications, 2021, 44, 100480.	4.1	17
3161	Water-splitting photoelectrodes consisting of heterojunctions of carbon nitride with a p-type low bandgap double perovskite oxide. Nanotechnology, 2021, 32, 485407.	2.6	13

#	Article	IF	CITATIONS
3162	Recent advances in carbon nitride-based nanomaterials for hydrogen production and storage. International Journal of Hydrogen Energy, 2022, 47, 37490-37516.	7.1	11
3163	Novel g-C ₃ N ₄ /C/Fe ₂ O ₃ Composite for Efficient Photocatalytic Reduction of Aqueous Cr(VI) under Light Irradiation. Industrial & Engineering Chemistry Research, 2021, 60, 13594-13603.	3.7	19
3164	Photocatalytic Câ^'H Azolation of Arenes Using Heterogeneous Carbon Nitride in Batch and Flow. ChemSusChem, 2021, 14, 5265-5270.	6.8	14
3165	Onâ€Surface Polymerization of Inâ€Plane Highly Ordered Carbon Nitride Nanosheets toward Photocatalytic Mineralization of Mercaptan Gas. Advanced Materials, 2021, 33, e2101466.	21.0	130
3166	Metal-Free C3N4 with plentiful nitrogen vacancy and increased specific surface area for electrocatalytic nitrogen reduction. Journal of Energy Chemistry, 2021, 60, 546-555.	12.9	66
3167	Multiscale structural engineering of carbon nitride for enhanced photocatalytic H2O2 production. Nano Research, 2023, 16, 4524-4530.	10.4	21
3168	Two-dimensional quantum dots for biological applications. Nano Research, 2021, 14, 3820-3839.	10.4	50
3169	Mixed metal ferrite (Mn _{0.6} Zn _{0.4} Fe ₂ O ₄) intercalated g-C ₃ N ₄ nanocomposite: efficient sunlight driven photocatalyst for methylene blue degradation. Nanotechnology, 2021, 32, 505714.	2.6	8
3170	Z-scheme g-C3N4/ Bi6Fe1.5Co0.5Ti3O18 heterojunctions with enhanced visible-light photocatalytic activity towards organics degradation. Applied Surface Science, 2021, , 151289.	6.1	9
3171	RuO ₂ Nanoparticle-Embedded Graphitic Carbon Nitride for Efficient Photocatalytic H ₂ Evolution. ACS Applied Nano Materials, 2021, 4, 11700-11708.	5.0	17
3172	Photocatalytic water purification with graphitic C3N4-based composites: Enhancement, mechanisms, and performance. Applied Materials Today, 2021, 24, 101118.	4.3	13
3173	CQDs as emerging trends for future prospect in enhancement of photocatalytic activity. Carbon Letters, 2022, 32, 81-97.	5.9	19
3174	Fe-based single-atom catalysis for oxidizing contaminants of emerging concern by activating peroxides. Journal of Hazardous Materials, 2021, 418, 126294.	12.4	34
3175	Ruthenium(II) complexes coordinated to graphitic carbon nitride: Oxygen self-sufficient photosensitizers which produce multiple ROS for photodynamic therapy in hypoxia. Biomaterials, 2021, 276, 121064.	11.4	56
3176	Designing heterointerface in BiOBr/g-C3N4 photocatalyst to enhance visible-light-driven photocatalytic performance in water purification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126796.	4.7	21
3177	New Carbon Nitride C ₃ N ₃ Additive for Improving Cationic Defects of Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	12
3178	Heterostructure of Ta3N5 nanorods and CaTaO2N nanosheets fabricated using a precursor template to boost water splitting under visible light. Journal of Energy Chemistry, 2022, 67, 27-33.	12.9	14
3179	Carbon nitride derived nitrogen-doped carbon nanosheets for high-rate lithium-ion storage. Chemical Engineering Science, 2021, 241, 116709.	3.8	34

#	Addicie	IF	CITATIONS
π 3180	Rational design of carbon anodes by catalytic pyrolysis of graphitic carbon nitride for efficient storage of Na and K mobile ions. Nano Energy, 2021, 87, 106184.	16.0	50
3181	Transformation of amorphous Bi2O3 to crystal Bi2O2CO3 on Bi nanospheres surface for photocatalytic NOx oxidation: Intensified hot-electron transfer and reactive oxygen species generation. Chemical Engineering Journal, 2021, 420, 129814.	12.7	35
3182	Complete removal of Tetracycline by sonophotocatalysis using ultrasound-assisted hierarchical graphitic carbon nitride nanorods with carbon vacancies. Chemosphere, 2022, 287, 132379.	8.2	28
3183	Constructing carbon microspheres/MnFe2O4/g-C3N4 composite photocatalysts for enhanced photocatalytic activity under visible light irradiation. Inorganic Chemistry Communication, 2021, 134, 108947.	3.9	9
3184	Solar-Driven Glucose Isomerization into Fructose via Transient Lewis Acid–Base Active Sites. ACS Catalysis, 2021, 11, 12170-12178.	11.2	36
3185	Graphitic carbon nitride embedded with graphene materials towards photocatalysis of bisphenol A: The role of graphene and mediation of superoxide and singlet oxygen. Chemosphere, 2021, 278, 130334.	8.2	33
3186	Graphitic carbon nitride heterojunction photocatalysts for solar hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 37242-37267.	7.1	36
3187	Enhancing the photocatalytic water splitting of graphitic carbon nitride by hollow anatase titania dielectric resonators. Journal of Colloid and Interface Science, 2021, 598, 14-23.	9.4	9
3188	Carbon self-doped polytriazine imide nanotubes with optimized electronic structure for enhanced photocatalytic activity. Journal of Zhejiang University: Science A, 2021, 22, 751-759.	2.4	1
3189	MXenes and their derivatives as nitrogen reduction reaction catalysts: recent progress and perspectives. Materials Today Energy, 2021, 22, 100864.	4.7	24
3190	Ammonia Reduction System for the Diversity of Cathode Processing of Li-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 12091-12099.	6.7	7
3191	Facile Synthesis Strategy from Sludge-Derived Extracellular Polymeric Substances to Nitrogen-Doped Graphene Oxide-Like Material and Quantum Dots. ACS Omega, 2021, 6, 24940-24948.	3.5	4
3192	Nano Ni/g 3 N 4 Photocatalyzed Aerobic Oxidative Coupling Reaction toward Alkyl Aryl Ketones Derivatives under Visible Light Irradiation. ChemistrySelect, 2021, 6, 9128-9133.	1.5	1
3193	Superhigh co-adsorption of tetracycline and copper by the ultrathin g-C3N4 modified graphene oxide hydrogels. Journal of Hazardous Materials, 2022, 424, 127362.	12.4	70
3194	Water splitting kinetics of Sr-doped g-C3N4 edge-wrinkled nanosheets under visible light. Materials Science in Semiconductor Processing, 2021, 132, 105918.	4.0	4
3195	Preparation of g-C3N4/TiO2 by template method and its photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126756.	4.7	35
3196	Investigation of kinetic parameters for ammonium perchlorate thermal decomposition in presence of gCN/CuO by TG-MS analysis and kinetic compensation correction. Journal of Solid State Chemistry, 2021, 301, 122301.	2.9	13
3197	Surfactant-bridged forming of core-shell NaNbO3@g-C3N4 microcuboid: An approach to produce semiconductor heterojunction. Open Ceramics, 2021, 7, 100151.	2.0	0

#	Article	IF	CITATIONS
3198	Engineering of g-C3N4-based photocatalysts to enhance hydrogen evolution. Advances in Colloid and Interface Science, 2021, 295, 102488.	14.7	52
3199	Study on electronic properties and charge transfer doping of organic molecules adsorbed g-GaN monolayer. Semiconductor Science and Technology, 2021, 36, 125020.	2.0	4
3200	Tungstenâ€doped foam gâ€C ₃ N ₄ with improved photocatalytic properties for degradation of pollutant and hydrogen evolution. Journal of the American Ceramic Society, 2022, 105, 1052-1061.	3.8	7
3201	Semiâ€Synthetic Chlorophyllâ€Carotenoid Dyad for Dyeâ€Sensitized Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2021, 8, 2101303.	3.7	17
3202	Expanding the Conjugate Structure of Polymeric Carbon Nitride for Enhanced Light Absorption and Photothermal Conversion. Macromolecular Rapid Communications, 2021, 42, e2100502.	3.9	6
3203	Accelerated sunlight photocatalysis through improved electron mobility between g-C3N4 and BiPO4 nanomaterial. Environmental Science and Pollution Research, 2022, 29, 86068-86076.	5.3	2
3204	Regulated effect of organic small molecular doped in carbon nitride skeleton for boosting photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 38299-38309.	7.1	5
3205	Roles of oxygen-containing functional groups of O-doped g-C3N4 in catalytic ozonation: Quantitative relationship and first-principles investigation. Applied Catalysis B: Environmental, 2021, 292, 120155.	20.2	137
3206	Acid treated crystalline graphitic carbon nitride with improved efficiency in photocatalytic ethanol oxidation under visible light. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115304.	3.5	11
3207	ZnIn ₂ S ₄ â€Based Photocatalysts for Energy and Environmental Applications. Small Methods, 2021, 5, e2100887.	8.6	153
3208	Thermal Excitation Polarized Field Drives Photoelectric Catalysis for Dye Degradation in a BaTiO ₃ /CdS Heterojunction through Integration of Solar and Thermal Energy. ChemPhotoChem, 2021, 5, 1106-1118.	3.0	10
3209	A Review: Photocatalysts Based on BiOCl and g-C3N4 for Water Purification. Catalysts, 2021, 11, 1084.	3.5	7
3210	Single-Atom Fe-N4 sites promote the triplet-energy transfer process of g-C3N4 for the photooxidation. Journal of Catalysis, 2021, 404, 89-95.	6.2	26
3211	Adsorption and photocatalytic removal of Rhodamine B from wastewater using carbon-based materials. FlatChem, 2021, 29, 100277.	5.6	43
3212	The upsurge of photocatalysts in antibiotic micropollutants treatment: Materials design, recovery, toxicity and bioanalysis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 48, 100437.	11.6	26
3213	Shining photocatalysis by gold-based nanomaterials. Nano Energy, 2021, 88, 106306.	16.0	64
3214	Oxygen vacancy-enriched Bi2O3/BiFeO3 p-n heterojunction nanofibers with highly efficient photocatalytic activity under visible light irradiation. Applied Surface Science, 2021, 562, 150171.	6.1	22
3215	Interfacial Co-N bond bridged CoB/g-C3N4 Schottky junction with modulated charge transfer dynamics for highly efficient photocatalytic Staphylococcus aureus inactivation. Chemical Engineering Journal, 2021, 422, 130029.	12.7	52

#	Article	IF	CITATIONS
3216	Surface oxygenous groups modified graphitic carbon nitride with significant positive shift of valence band for efficient photocatalytic oxidation. Applied Surface Science, 2021, 563, 150070.	6.1	9
3217	A strategy for integrating transition metal-complex cocatalyst onto g-C3N4 to enable efficient photocatalytic hydrogen evolution. Molecular Catalysis, 2021, 515, 111856.	2.0	3
3218	Defect engineering in polymeric carbon nitride photocatalyst: Synthesis, properties and characterizations. Advances in Colloid and Interface Science, 2021, 296, 102523.	14.7	49
3219	Performance tuning and optimisation of 2D–2D-like g-C3N4 modified Bi2O2CO3 n–n homotypic heterojunction as an inactivating photocatalytic material. Journal of Environmental Chemical Engineering, 2021, 9, 106176.	6.7	6
3220	Insights into enhancement of photocatalytic properties of g-C3N4 by local electric field induced by polarization of MgO(111). Journal of Environmental Chemical Engineering, 2021, 9, 105922.	6.7	13
3221	Van der waals heterostructures by single cobalt sites-anchored graphene and g-C3N4 nanosheets for photocatalytic syngas production with tunable CO/H2 ratio. Applied Catalysis B: Environmental, 2021, 295, 120261.	20.2	51
3222	ZnS-based quantum dots as photocatalysts for water purification. Journal of Water Process Engineering, 2021, 43, 102217.	5.6	41
3223	Toxicity and removal of parabens from water: A critical review. Science of the Total Environment, 2021, 792, 148092.	8.0	52
3224	Porous perovskite-lanthanum cobaltite as an efficient cocatalyst in photoelectrocatalytic water oxidation by bismuth doped g-C3N4. Solar Energy, 2021, 227, 426-437.	6.1	31
3225	Sulfur-doped triazine-conjugated microporous polymers for achieving the robust visible-light-driven hydrogen evolution. Chemical Engineering Journal, 2021, 421, 129825.	12.7	66
3226	Highly efficient and stable Ag-g-C3N4/AC photocatalyst for photocatalytic degradation, Cr(VI) reduction and bacteriostasis under visible light irradiation. Journal of Environmental Chemical Engineering, 2021, 9, 105879.	6.7	4
3227	Earthâ€Abundant CaCO ₃ â€Based Photocatalyst for Enhanced ROS Production, Toxic Byâ€Product Suppression, and Efficient NO Removal. Energy and Environmental Materials, 2022, 5, 928-934.	12.8	9
3228	Fabrication of Ag/Ag2O incorporated graphitic carbon nitride based ZnO nanocomposite for enhanced Z-scheme photocatalytic performance of various organic pollutants and bacterial disinfection. Journal of Environmental Chemical Engineering, 2021, 9, 105996.	6.7	34
3229	Aggregate-forming semi-synthetic chlorophyll derivatives / Ti3C2T MXene hybrids for photocatalytic hydrogen evolution. Dyes and Pigments, 2021, 194, 109583.	3.7	21
3230	Silver nanoparticles supported on P, Se-codoped g-C3N4 nanosheet as a novel heterogeneous catalyst for reduction of nitroaromatics to their corresponding amines. Journal of Molecular Structure, 2021, 1242, 130646.	3.6	14
3231	Tailoring chemical structures and intermolecular interactions of melem intermediates for highly efficient photocatalytic hydrogen evolution of g-C3N4. Applied Surface Science, 2021, 563, 150384.	6.1	34
3232	Visible light active Boron doped phenyl-g-C3N4 nanocomposites for decomposition of Dyes. Surfaces and Interfaces, 2021, 26, 101394.	3.0	4
3233	Enhancement of photocatalytic oxidation of benzyl alcohol by edge-functionalized modified carbon nitride: A DET evaluation, Journal of Photochemistry and Photobiology A: Chemistry, 2021, 419, 113452	3.9	1

#	Article	IF	CITATIONS
3234	Enhanced triethylamine sensing performance of superfine NiO nanoparticles decoration by two-dimensional hexagonal boron nitride. Advanced Powder Technology, 2021, 32, 3801-3813.	4.1	6
3235	Facile synthesis of modified carbon nitride with enhanced activity for photocatalytic degradation of atrazine. Journal of Environmental Chemical Engineering, 2021, 9, 105807.	6.7	8
3236	Sublimable xanthate-mediated solid-state synthesis of highly interspersed g-C3N4/Ag2S nanocomposites exhibiting efficient bactericidal effects both under dark and light conditions. Journal of Environmental Chemical Engineering, 2021, 9, 106065.	6.7	15
3237	Directional modulation of triazine and heptazine based carbon nitride for efficient photocatalytic H2 evolution. Applied Surface Science, 2021, 562, 150103.	6.1	7
3238	Photocatalytic degradation of hazardous organic pollutants in water by Fe-MOFs and their composites: A review. Journal of Environmental Chemical Engineering, 2021, 9, 105967.	6.7	47
3239	Gel-like carbon dots: A high-performance future photocatalyst. Journal of Colloid and Interface Science, 2021, 599, 519-532.	9.4	22
3240	Fabrication of electrospun nanofiber composite of g-C3N4 and Au nanoparticles as plasmonic photocatalyst. Surfaces and Interfaces, 2021, 26, 101367.	3.0	5
3241	Computational investigation of lithium intercalation in single-walled zigzag blue phosphorene nanotubes. Chemical Physics, 2021, 550, 111297.	1.9	3
3242	Plasmonic Au-based junctions onto TiO2, gC3N4, and TiO2-gC3N4 systems for photocatalytic hydrogen production: Fundamentals and challenges. Renewable and Sustainable Energy Reviews, 2021, 149, 111095.	16.4	31
3243	Single molecular precursors for CxNy materials- Blending of carbon and nitrogen beyond g-C3N4. Carbon, 2021, 183, 332-354.	10.3	30
3244	Bioinspired construction of carbonized poly(tannic acid)/g-C3N4 nanorod photocatalysts for organics degradation. Applied Surface Science, 2021, 562, 150256.	6.1	19
3245	Synergetic utilization of 3D materials merits and unidirectional electrons transfer of Schottky junction for optimizing optical absorption and charge kinetics. Applied Catalysis B: Environmental, 2021, 295, 120278.	20.2	23
3246	Pt/B-g-C3N4 catalysts for hydrogen photo-production: Activity interpretation through a spectroscopic and intrinsic kinetic analysis. Journal of Environmental Chemical Engineering, 2021, 9, 106073.	6.7	8
3247	A UV-shielding and hydrophobic graphitic carbon nitride nanosheets/cellulose nanofibril (gCNNS/CNF) transparent coating on wood surface for weathering resistance. Progress in Organic Coatings, 2021, 159, 106440.	3.9	14
3248	DFT computation of two-dimensional CdO/GaS van der Waals heterostructure: Tunable absorption spectra for water splitting application. Vacuum, 2021, 192, 110434.	3.5	21
3249	The photocatalytic degradation of sodium diclofenac in different water matrices using g-C3N4 nanosheets: A study of the intermediate by-products and mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 105827.	6.7	32
3250	Halloysite derived 1D mesoporous tubular g-C3N4: Synergy of template effect and associated carbon for boosting photocatalytic performance toward tetracycline removal. Applied Clay Science, 2021, 213, 106238.	5.2	30
3251	Hierarchical ZnO/MXene composites and their photocatalytic performances. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127230.	4.7	36
Сітат	tion Repo	RT	
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Article	IF		Citations
High-efficient charge separation driven directionally by pyridine rings grafted on carbon nitride edge for boosting photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2021, 297, 120433.	20).2	201
Tuning dimensionality TiO2/g-C3N4 heterostructure for enhanced elemental mercury removal performance under visible-light. Chemical Physics Letters, 2021, 782, 139027.	2.	6	13
Sustainable one-step synthesis of nanostructured potassium poly(heptazine imide) for highly boosted photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 424, 130332.	12	2.7	18
Research progress on g–C3N4–based photocatalysts for organic pollutants degradation in wastewater: From exciton and carrier perspectives. Ceramics International, 2021, 47, 31005-31030.	4.	8	54
Effects of inter/intralayer adsorption and direct/indirect reaction on photo-removal of pollutants by layered g-C3N4 and BiOBr. Journal of Cleaner Production, 2021, 322, 129025.	9.	3	24
Concerted high innergenerated-H2O2 photocatalysis and Photo-Fenton degradation of organic pollutants over SCNO@CdS. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 420, 113477.	3.	9	7
Electrochemical conversion of CO2 into tunable syngas on a B, P, N tri-doped carbon. Renewable Energy, 2021, 177, 636-642.	8.	9	20
Recent advances in crystalline carbon nitride for photocatalysis. Journal of Materials Science and Technology, 2021, 91, 224-240. Controllable functionalization of g-C <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>10</td><td>0.7</td><td>97</td></mml:math>	10	0.7	97
display="inline" id="d1e2116" altimg="si20.svg"> <mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mrow </mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">N</mml:mi </mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow>mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental</mml:msub></mml:mrow>	ıml:msub>či	1 mml:mr	12 ow>
applications. Environmental Technology and Innovation, 2021, 24, 101972. Degradation of ofloxacin by peroxymonosulfate activated with cobalt-doped graphitic carbon nitride: Mechanism and performance. Inorganic Chemistry Communication, 2021, 133, 108863.	3.	9	10
Bridging regulation in graphitic carbon nitride for band-structure modulation and directional charge transfer towards efficient H2 evolution under visible-light irradiation. Journal of Colloid and Interface Science, 2021, 601, 220-228.	9.	.4	19
Rational copolymerization strategy engineered C self-doped g-C3N4 for efficient and robust solar photocatalytic H2 evolution. Renewable Energy, 2021, 178, 757-765.	8.	9	130
Caesium sites coordinated in Boron-doped porous and wrinkled graphitic carbon nitride nanosheets for efficient charge carrier separation and Transfer: Photocatalytic H2 and H2O2 production. Chemical Engineering Journal, 2021, 423, 130067.	12	2.7	42
Constructed palladium-anchored hollow-rod-like graphitic carbon nitride created rapid visible-light-driven debromination of hexabromocyclododecane. Applied Catalysis B: Environmental, 2021, 297, 120409.	20	0.2	10
High-temperature ferromagnetism in non-metal carbonitride: From nitrogen vacant g-C3N4 to N-doped graphene. Journal of Magnetism and Magnetic Materials, 2021, 538, 168223.	2.	3	5
Synergistic hydrogen evolution activity of NiO/g-C3N4 photocatalysts under direct solar light irradiation_Materials.Letters_2021_302_130292	2.	6	16

3268	Selectively constructing nitrogen vacancy in carbon nitrides for efficient syngas production with visible light. Applied Catalysis B: Environmental, 2021, 297, 120496.	20.2	31
	Structural and compositional tuning in g C2N4 based systems for photosetal, the entitiestic		

³²⁶⁹ Structural and compositional tuning in g-C3N4 based systems for photocatalytic antibiotic 5.2 43 degradation. Chemical Engineering Journal Advances, 2021, 8, 100148.

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#	Article	IF	CITATIONS
3270	Phosphorus vapor assisted preparation of P-doped ultrathin hollow g-C3N4 sphere for efficient solar-to-hydrogen conversion. Applied Catalysis B: Environmental, 2021, 297, 120438.	20.2	47
3271	Facile one-pot synthesis of carbon self-doped graphitic carbon nitride loaded with ultra-low ceric dioxide for high-efficiency environmental photocatalysis: Organic pollutants degradation and hexavalent chromium reduction. Journal of Colloid and Interface Science, 2021, 601, 196-208.	9.4	77
3272	Multifunctional biomaterials that modulate oxygen levels in the tumor microenvironment. Cancer Letters, 2021, 521, 39-49.	7.2	8
3273	Promoted photocatalytic degradation and detoxication performance for norfloxacin on Z-scheme phosphate-doped BiVO4/graphene quantum dots/P-doped g-C3N4. Separation and Purification Technology, 2021, 274, 118692.	7.9	38
3274	Peroxydisulfate activation by photo-generated charges on mesoporous carbon nitride for removal of chlorophenols. Applied Catalysis B: Environmental, 2021, 296, 120370.	20.2	42
3275	Applications of two-dimensional layered nanomaterials in photoelectrochemical sensors: A comprehensive review. Coordination Chemistry Reviews, 2021, 447, 214156.	18.8	136
3276	Ultrahigh-performance visible-light photodegradation enabled by direct Z-scheme AgI/(Na,F)–C3N4 composites. Composites Part B: Engineering, 2021, 224, 109200.	12.0	36
3277	Highly efficient and stable g‑C3N4 decorated Ta3N5 nanotube on n-Si substrate for solar water oxidation. Applied Surface Science, 2021, 565, 150456.	6.1	8
3278	Synergistic catalysis of BiOIO3 catalyst for elimination of organic pollutants under simultaneous photo-irradiation and ultrasound-vibration treatment. Journal of Colloid and Interface Science, 2021, 601, 704-713.	9.4	40
3279	Surface engineering of copper sulfide-titania-graphitic carbon nitride ternary nanohybrid as an efficient visible-light photocatalyst for pollutant photodegradation. Journal of Colloid and Interface Science, 2021, 604, 198-207.	9.4	12
3280	A novel photoanode based on Thorium oxide (ThO2) incorporated with graphitic Carbon nitride (g-C3N4) for Photoelectrochemical water splitting. Applied Surface Science, 2021, 569, 151043.	6.1	25
3281	Effect of thermal program on structure–activity relationship of g-C3N4 prepared by urea pyrolysis and its application for controllable production of g-C3N4. Journal of Solid State Chemistry, 2021, 304, 122545.	2.9	42
3282	Smartphone-based photoelectrochemical biosensing system with graphitic carbon nitride/gold nanoparticles modified electrodes for matrix metalloproteinase-2 detection. Biosensors and Bioelectronics, 2021, 193, 113572.	10.1	26
3283	Photo-degradation behavior of seven benzoylurea pesticides with C3N4 nanofilm and its aquatic impacts on Scendesmus obliquus. Science of the Total Environment, 2021, 799, 149470.	8.0	7
3284	Carbon nitride nanosheets magnetically decorated with Fe3O4 nanoparticles by homogeneous precipitation: Adsorption-photocatalytic performance and acute toxicity assessment. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100549.	2.9	6
3285	A review on particulate photocatalytic hydrogen production system: Progress made in achieving high energy conversion efficiency and key challenges ahead. Renewable and Sustainable Energy Reviews, 2021, 152, 111694.	16.4	76
3286	The impact of benzene ring embedding on the performance of carbon nitride for photocatalytic hydrogen. Applied Surface Science, 2021, 569, 151089.	6.1	10
3287	Cu-O-incorporation design for promoted heterogeneous catalysis: synergistic effect of surface adsorption and catalysis towards efficient bisphenol A removal. Applied Surface Science, 2021, 569, 151107.	6.1	8

#	Article	IF	CITATIONS
3288	Facile construction of Fe/Pd-doped graphite carbon nitride for effective removal of doxorubicin: Performance, mechanism and degradation pathways. Applied Catalysis B: Environmental, 2021, 299, 120686.	20.2	17
3289	Hollow-structured amorphous prussian blue decorated on graphitic carbon nitride for photo-assisted activation of peroxymonosulfate. Journal of Colloid and Interface Science, 2021, 603, 856-863.	9.4	23
3290	Interfacial charge transfer in carbon nitride heterojunctions monitored by optical methods. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 49, 100453.	11.6	26
3291	Perylenetetracarboxylic diimide covalently bonded with mesoporous g-C3N4 to construct direct Z-scheme heterojunctions for efficient photocatalytic oxidative coupling of amines. Applied Catalysis B: Environmental, 2021, 298, 120534.	20.2	71
3292	Interfacial engineering of 2D/2D MXene heterostructures: face-to-face contact for augmented photodegradation of amoxicillin. Chemical Engineering Journal, 2021, 426, 131246.	12.7	42
3293	Sustainable synthesis of low-cost nitrogen-doped-carbon coated Co3W3C@g-C3N4 composite photocatalyst for efficient hydrogen evolution. Chemical Engineering Journal, 2021, 426, 131208.	12.7	40
3294	Fabricating SnO2 and Cu2O anchored on g-C3N4 nanocomposites for superior photocatalytic various organic pollutants degradation under simulated sunlight exposure. Diamond and Related Materials, 2021, 120, 108606.	3.9	35
3295	Surface modification of g-C3N4-supported iron catalysts for CO hydrogenation: Strategy for product distribution. Fuel, 2021, 305, 121473.	6.4	16
3296	Boron and phosphorus co-doped one-dimensional graphitic carbon nitride for enhanced visible-light-driven photodegradation of diclofenac. Chemical Engineering Journal, 2021, 425, 131520.	12.7	29
3297	Selective photocatalytic conversion of guaiacol using g-C3N4 metal free nanosheets photocatalyst to add-value products. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 421, 113513.	3.9	5
3298	Recent advances in persulfate-assisted TiO2-based photocatalysis for wastewater treatment: Performances, mechanism and perspectives. Journal of Alloys and Compounds, 2021, 888, 161625.	5.5	79
3299	Layered Ti3C2 MXene and silver co-modified g-C3N4 with enhanced visible light-driven photocatalytic activity. Chemical Engineering Journal, 2021, 425, 131493.	12.7	67
3300	Highly efficient clean water production: Reduced graphene oxide/ graphitic carbon nitride/wood. Separation and Purification Technology, 2021, 279, 119788.	7.9	62
3301	Enhancing electron density of bulk g-C3N4 through phosphorus doping for promoting photocatalytic hydrogen evolution reaction. Applied Surface Science, 2021, 570, 151186.	6.1	30
3302	Constructing CdSe QDs modified porous g-C3N4 heterostructures for visible light photocatalytic hydrogen production. Journal of Materials Science and Technology, 2021, 95, 167-171.	10.7	26
3303	Ultrafast recovery of aqueous uranium: Photocatalytic U(VI) reduction over CdS/g-C3N4. Chemical Engineering Journal, 2021, 425, 131552.	12.7	59
3304	Fabrication of ultra-thin g-C3N4 nanoplates for efficient visible-light photocatalytic H2O2 production via two-electron oxygen reduction. Chemical Engineering Journal, 2021, 425, 130615.	12.7	88
3305	A self-sensitized Co (II)-MOF for efficient visible-light-driven hydrogen evolution without additional cocatalysts. Journal of Solid State Chemistry, 2021, 304, 122609.	2.9	15

#	Article	IF	CITATIONS
3306	Structural reconstruction of carbon nitride with tailored electronic structure: A bifunctional photocatalyst for cooperative artificial photosynthesis and selective phenylcarbinol oxidation. Applied Catalysis B: Environmental, 2021, 298, 120517.	20.2	7
3307	Rationally constructing of a novel composite photocatalyst with multi charge transfer channels for highly efficient sulfamethoxazole elimination: Mechanism, degradation pathway and DFT calculation. Chemical Engineering Journal, 2021, 426, 131585.	12.7	89
3308	Carbon ring and molecular scaffold co-doped g-C3N4 heterostructural nanosheets for highly efficient hydrogen evolution. Materials Research Bulletin, 2021, 144, 111482.	5.2	5
3309	Fabrication of MIL-Fe (53)/modified g-C3N4 photocatalyst synergy H2O2 for degradation of tetracycline. Separation and Purification Technology, 2021, 279, 119661.	7.9	40
3310	An advanced plasmonic photocatalyst containing silver(0) single atoms for selective borylation of aryl iodides. Applied Catalysis B: Environmental, 2021, 299, 120674.	20.2	13
3311	A review of photocatalytic characterization, and environmental cleaning, of metal oxide nanostructured materials. Sustainable Materials and Technologies, 2021, 30, e00343.	3.3	30
3312	Multiple application of SAzyme based on carbon nitride nanorod-supported Pt single-atom for H2O2 detection, antibiotic detection and antibacterial therapy. Chemical Engineering Journal, 2022, 427, 131572.	12.7	42
3313	Octahedron-shaped SnFe2O4 for boosting photocatalytic degradation and CO2 reduction. Journal of Alloys and Compounds, 2021, 889, 161737.	5.5	11
3314	Intimately coupled photocatalysis and biodegradation for effective simultaneous removal of sulfamethoxazole and COD from synthetic domestic wastewater. Journal of Hazardous Materials, 2022, 423, 127063.	12.4	28
3315	Effects of various alcohol sacrificial agents on hydrogen evolution based on CoS2@SCN nanomaterials and its mechanism. Chemosphere, 2022, 286, 131558.	8.2	24
3316	Superhydrophilic and polyporous nanofibrous membrane with excellent photocatalytic activity and recyclability for wastewater remediation under visible light irradiation. Chemical Engineering Journal, 2022, 427, 131685.	12.7	33
3317	Defect engineered mesoporous graphitic carbon nitride modified with AgPd nanoparticles for enhanced photocatalytic hydrogen evolution from formic acid. Chemical Engineering Journal, 2022, 429, 132388.	12.7	67
3318	Core-shell S-doped g-C3N4@P123 derived N and S co-doped carbon as metal-free electrocatalysts highly efficient for oxygen reduction reaction. Chemical Engineering Journal, 2022, 429, 132469.	12.7	29
3319	Surface construction of a novel metal-free g-C3N4-based heterojunction photocatalyst for the efficient removal of bio-toxic antibiotic residues. Applied Surface Science, 2022, 571, 151299.	6.1	22
3320	Construction of double-functionalized g-C3N4 heterojunction structure via optimized charge transfer for the synergistically enhanced photocatalytic degradation of sulfonamides and H2O2 production. Journal of Hazardous Materials, 2022, 422, 126868.	12.4	49
3321	Effect of carbon nitride synthesized by different modification strategies on the performance of carbon nitride/PVDF photocatalytic composite membranes. Journal of Hazardous Materials, 2022, 422, 126877.	12.4	14
3322	Metal-free 2D/2D C3N5/GO nanosheets with customized energy-level structure for radioactive nuclear wastewater treatment. Journal of Hazardous Materials, 2022, 422, 126912.	12.4	49
3323	High-loading single-atom tungsten anchored on graphitic carbon nitride (melon) for efficient oxidation of emerging contaminants. Chemical Engineering Journal, 2022, 427, 131973.	12.7	11

#	Article	IF	CITATIONS
3324	Three-dimensional C3N5/RGO aerogels with enhanced visible-light response and electron-hole separation efficiency for photocatalytic uranium reduction. Chemical Engineering Journal, 2022, 427, 131773.	12.7	56
3325	Synergistic effects of Tin sulfide Nitrogen-doped titania Nanobelt-Modified graphitic carbon nitride nanosheets with outstanding photocatalytic activity. Journal of Colloid and Interface Science, 2022, 606, 1767-1778.	9.4	8
3326	Passivation of multiple heavy metals in lead–zinc tailings facilitated by straw biochar-loaded N-doped carbon aerogel nanoparticles: Mechanisms and microbial community evolution. Science of the Total Environment, 2022, 803, 149866.	8.0	25
3327	Insight into mechanism of divalent metal cations with different d-bands classification in layered double hydroxides for light-driven CO2 reduction. Chemical Engineering Journal, 2022, 427, 130863.	12.7	15
3328	Covalent organic frameworks-based smart materials for mitigation of pharmaceutical pollutants from aqueous solution. Chemosphere, 2022, 286, 131710.	8.2	40
3329	Recent advances in graphitic carbon nitride semiconductor: Structure, synthesis and applications. Materials Science in Semiconductor Processing, 2022, 137, 106181.	4.0	49
3330	Band alignment of homojunction by anchoring CN quantum dots on g-C3N4 (0D/2D) enhance photocatalytic hydrogen peroxide evolution. Applied Catalysis B: Environmental, 2022, 300, 120736.	20.2	70
3331	Synergy of intermolecular Donor-Acceptor and ultrathin structures in crystalline carbon nitride for efficient photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 607, 1603-1612.	9.4	25
3332	Advances in application of g–C3N4–based materials for treatment of polluted water and wastewater via activation of oxidants and photoelectrocatalysis: A comprehensive review. Chemosphere, 2022, 286, 131737.	8.2	50
3333	Visible light-driven g-C3N4 peroxymonosulfate activation process for carbamazepine degradation: Activation mechanism and matrix effects. Chemosphere, 2022, 286, 131906.	8.2	22
3334	One-step supramolecular preorganization constructed crinkly graphitic carbon nitride nanosheets with enhanced photocatalytic activity. Journal of Materials Science and Technology, 2022, 104, 155-162.	10.7	45
3335	g-C3N4 Derived Materials for Photocatalytic Hydrogen Production: A Mini Review on Design Strategies. Journal of Renewable Materials, 2022, 10, 653-663.	2.2	13
3336	Peroxymonosulfate activation by graphitic carbon nitride co-doped with manganese, cobalt, and oxygen for degradation of trichloroethylene: Effect of oxygen precursors, kinetics, and mechanism. Separation and Purification Technology, 2021, 278, 119580.	7.9	13
3337	Z-scheme junction Bi2O2(NO3)(OH)/g-C3N4 for promoting CO2 photoreduction. Chemical Engineering Journal, 2022, 429, 132268.	12.7	27
3338	Visible-light-assisted peroxymonosulfate activation by metal-free bifunctional oxygen-doped graphitic carbon nitride for enhanced degradation of imidacloprid: Role of non-photochemical and photocatalytic activation pathway. Journal of Hazardous Materials, 2022, 423, 127048.	12.4	68
3339	Organic terpyridine molecule as an efficient cocatalyst for metal–free CO2 photoreduction mediated by mesoporous graphitic carbon nitride. Chemical Engineering Journal, 2022, 429, 132348.	12.7	16
3340	Efficient photocatalytic H2 evolution and α-methylation of ketones from copper complex modified polymeric carbon nitride. Chemical Engineering Journal, 2022, 427, 132042.	12.7	18
3341	Fabrication of a dual S-scheme Bi7O9I3/g-C3N4/Bi3O4Cl heterojunction with enhanced visible-light-driven performance for phenol degradation. Chemosphere, 2022, 287, 132241.	8.2	56

#	Article	IF	CITATIONS
3342	Iron(V)/Iron(IV) species in graphitic carbon nitride-ferrate(VI)-visible light system: Enhanced oxidation of micropollutants. Chemical Engineering Journal, 2022, 428, 132610.	12.7	30
3343	Fast and lasting electron transfer between γ-FeOOH and g-C3N4/kaolinite containing N vacancies for enhanced visible-light-assisted peroxymonosulfate activation. Chemical Engineering Journal, 2022, 429, 132374.	12.7	59
3344	Novel recyclable Z-scheme g-C3N4/carbon nanotubes/Bi25FeO40 heterostructure with enhanced visible-light photocatalytic performance towards tetracycline degradation. Chemical Engineering Journal, 2022, 429, 132130.	12.7	21
3345	Development of a metal-free black phosphorus/graphitic carbon nitride heterostructure for visible-light-driven degradation of indomethacin. Science of the Total Environment, 2022, 804, 150062.	8.0	15
3346	Magnetically separable ZnFe2O4/Ag3PO4/g-C3N4 photocatalyst for inactivation of Microcystis aeruginosa: Characterization, performance and mechanism. Journal of Hazardous Materials, 2022, 421, 126703.	12.4	60
3347	Defective polymeric carbon nitride: Fabrications, photocatalytic applications and perspectives. Chemical Engineering Journal, 2022, 427, 130991.	12.7	85
3348	Superior photodegradation of organic compounds and H2O2 production over tungsten oxide/carbon nitride heterojunction with sizable heptazine units: Dual polycondensation and interface engineering. Chemical Engineering Journal, 2022, 427, 131710.	12.7	31
3349	Fabrication of graphitic carbon Nitride/Nonstoichiometric molybdenum oxide nanorod composite with the nonmetal plasma enhanced photocatalytic hydrogen evolution activity. Journal of Colloid and Interface Science, 2022, 606, 848-859.	9.4	21
3350	Ultrasound-assisted synthesis of visible-light-driven Ag/g-C3N4 catalysts in a continuous flow reactor. Chemical Engineering Journal, 2022, 429, 132412.	12.7	11
3351	Two-electron transfer mechanism from 3D/3D nickel selenide/MoS2 heterostructure accelerates photocatalytic hydrogen evolution and tetracycline hydrochloride removal. Chemical Engineering Journal, 2022, 429, 132432.	12.7	29
3352	Defect engineering of water-dispersible g-C3N4 photocatalysts by chemical oxidative etching of bulk g-C3N4 prepared in different calcination atmospheres. Journal of Materials Science and Technology, 2022, 103, 232-243.	10.7	31
3353	Fabrication of 0D/2D TiO2 Nanodots/g-C3N4 S-scheme heterojunction photocatalyst for efficient photocatalytic overall water splitting. Applied Surface Science, 2022, 571, 151287.	6.1	69
3354	Vacancy-modified g-C3N4 nanosheets via one-step thermal polymerization of thiosemicarbazide precursor for visible-light-driven photocatalytic activity. Materials Chemistry and Physics, 2022, 275, 125192.	4.0	27
3355	Microwave awakening the n-ï€* electronic transition in highly crystalline polymeric carbon nitride nanosheets for photocatalytic hydrogen generation. Journal of Energy Chemistry, 2022, 65, 541-547.	12.9	48
3356	Progress in Photocatalysis of g-C3N4 and its Modified Compounds. E3S Web of Conferences, 2021, 233, 01114.	0.5	1
3357	Fundamentals of Photocatalysis for Energy Conversion. Materials Horizons, 2021, , 5-17.	0.6	0
3358	TiO2 based Z-scheme photocatalysts for energy and environmental applications. , 2021, , 257-282.		1
3359	Copolymerization of urea and murexide for efficient photocatalytic hydrogen evolution and tetracycline degradation. New Journal of Chemistry, 2021, 45, 1977-1983.	2.8	2

#	Article	IF	CITATIONS
3360	Highly efficient solar photocatalytic degradation of a textile dye by TiO2/graphene quantum dots nanocomposite. Photochemical and Photobiological Sciences, 2021, 20, 87-99.	2.9	28
3361	Urea-induced supramolecular self-assembly strategy to synthesize wrinkled porous carbon nitride nanosheets for highly-efficient visible-light photocatalytic degradation. RSC Advances, 2021, 11, 23459-23470.	3.6	19
3362	Fabrication of metal-doped BiOI/MOF composite photocatalysts with enhanced photocatalytic performance. International Journal of Hydrogen Energy, 2021, 46, 5949-5962.	7.1	37
3363	Molding and Encoding Carbon Nitride-Containing Edible Oil Liquid Objects via Interfacial Toughening in Waterborne Systems. ACS Applied Materials & Interfaces, 2021, 13, 4643-4651.	8.0	8
3364	Fabrication and photocatalytic activity of graphitic-C ₃ N ₄ quantum dots-decorated basic zinc carbonate prepared by a co-precipitation method. Physical Chemistry Chemical Physics, 2021, 23, 20329-20339.	2.8	5
3365	Recent advances in g-C ₃ N ₄ -based photocatalysts incorporated by MXenes and their derivatives. Journal of Materials Chemistry A, 2021, 9, 13722-13745.	10.3	60
3366	New materials for water-splitting. Interface Science and Technology, 2021, 32, 791-870.	3.3	5
3367	Nanoscale Multidimensional Pd/TiO2/g-C3N4 Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production. Catalysts, 2021, 11, 59.	3.5	10
3369	Sulfonic acid-functionalized magnetic carbon nitride as highly efficient ionic composite for sustainable assembly of 1,2,3-triazoles. Journal of the Iranian Chemical Society, 2021, 18, 2057-2064.	2.2	6
3370	Magnetic field effect on the photocatalytic degradation of methyl orange by commercial TiO ₂ powder. RSC Advances, 2021, 11, 6284-6291.	3.6	15
3371	On the crystal chemistry of inorganic nitrides: crystal-chemical parameters, bonding behavior, and opportunities in the exploration of their compositional space. Chemical Science, 2021, 12, 4599-4622.	7.4	8
3372	Synergistic modulation of metal-free photocatalysts by the composition ratio change and heteroatom doping for overall water splitting. Journal of Materials Chemistry A, 2021, 9, 11753-11761.	10.3	14
3373	Vacancy engineering in nanostructured semiconductors for enhancing photocatalysis. Journal of Materials Chemistry A, 2021, 9, 17143-17172.	10.3	66
3374	Immobilization of visible-light-driven photocatalyst g-C3N4 on ceramic fiber for degradation of organic dye. Toxicological and Environmental Chemistry, 2021, 103, 18-36.	1.2	5
3375	Construction of novel polyethylenimine- <i>g</i> -C ₃ N ₄ /BiOCl heterojunctions for the efficient photocatalytic degradation of nitro explosives. New Journal of Chemistry, 2021, 45, 14655-14664.	2.8	2
3376	Electron-assisted synthesis of g-C ₃ N ₄ /MoS ₂ composite with dual defects for enhanced visible-light-driven photocatalysis. RSC Advances, 2021, 11, 78-86.	3.6	10
3377	Construction of CoS _x –ZnIn ₂ S ₄ hollow nanocages derived from metal–organic frameworks for efficient photocatalytic hydrogen production. New Journal of Chemistry, 2021, 45, 13860-13868.	2.8	7
3378	Application of g-C3N4-based Materials for the Efficient Removal and Degradation of Pollutants in Water and Wastewater Treatment. Energy, Environment, and Sustainability, 2021, , 95-119.	1.0	0

#	Article	IF	CITATIONS
3379	Highly porous Fe/N/C catalyst for oxygen reduction: the importance of pores. Chemical Communications, 2021, 57, 6935-6938.	4.1	20
3380	Type-II lateral SnSe/GeTe heterostructures for solar photovoltaic applications with high efficiency. Nanoscale Advances, 2021, 3, 3643-3649.	4.6	7
3381	Green and selective hydrogenation of aromatic diamines over the nanosheet Ru/g-C3N4-H2 catalyst prepared by ultrasonic assisted impregnation-deposition method. Green Energy and Environment, 2022, 7, 1361-1376.	8.7	8
3382	Recent Advances in the Controlled Design of One-dimensional Carbon Nitrides for Thermal CO Oxidation Reaction. RSC Nanoscience and Nanotechnology, 2021, , 1-37.	0.2	1
3383	Electrochemical hydrogen evolution reaction efficiently catalyzed by Ru–N coupling in defect-rich Ru/g-C ₃ N ₄ nanosheets. Journal of Materials Chemistry A, 2021, 9, 15019-15026.	10.3	40
3384	Crucial roles of triazinic-Nî€O and Cî€O groups in photocatalytic water splitting on graphitic carbon nitride. Journal of Materials Chemistry A, 2021, 9, 5522-5532.	10.3	14
3386	High crystallinity and conjugation promote the polarization degree in O-doped g-C ₃ N ₄ for removing organic pollutants. CrystEngComm, 2021, 23, 1366-1376.	2.6	15
3387	Side-chain-extended conjugation: a strategy for improving the photocatalytic hydrogen production performance of a linear conjugated polymer. Journal of Materials Chemistry A, 2021, 9, 8782-8791.	10.3	37
3388	Recent advancements and opportunities of decorated graphitic carbon nitride toward solar fuel production and beyond. Sustainable Energy and Fuels, 2021, 5, 4457-4511.	4.9	25
3389	Amine-Modified S-Scheme Porous g-C ₃ N ₄ /CdSe–Diethylenetriamine Composite with Enhanced Photocatalytic CO ₂ Reduction Activity. ACS Applied Energy Materials, 2021, 4, 956-968.	5.1	146
3390	In Situ Growth of Co ₂ P Nanocrystal on g-C ₃ N ₄ for Efficient and Stable Photocatalytic Hydrogen Evolution. Energy & Fuels, 2021, 35, 1859-1865.	5.1	16
3391	Flexible wearable humidity sensor based on cerium oxide/graphitic carbon nitride nanocomposite self-powered by motion-driven alternator and its application for human physiological detection. Journal of Materials Chemistry A, 2021, 9, 5619-5629.	10.3	68
3392	Recent advances in graphite carbon nitride-based nanocomposites: structure, antibacterial properties and synergies. Nanoscale Advances, 2021, 3, 3708-3729.	4.6	35
3393	An insight into the reaction mechanism of CO ₂ photoreduction catalyzed by atomically dispersed Fe atoms supported on graphitic carbon nitride. Physical Chemistry Chemical Physics, 2021, 23, 4690-4699.	2.8	22
3394	Hierarchical Co(OH)F Superstructure Built by Lowâ€Dimensional Substructures for Electrocatalytic Water Oxidation. Advanced Materials, 2017, 29, 1700286.	21.0	227
3395	Confined Synthesis of Carbon Nitride in a Layered Host Matrix with Unprecedented Solid tate Quantum Yield and Stability. Advanced Materials, 2018, 30, 1704376.	21.0	86
3396	Z‣chemaâ€Photokatalysesysteme für die Kohlendioxidreduktion: Wo stehen wir heute?. Angewandte Chemie, 2020, 132, 23092-23115.	2.0	30
3397	ZnSe Nanorods as Visibleâ€Light Absorbers for Photocatalytic and Photoelectrochemical H ₂ Evolution in Water. Angewandte Chemie - International Edition, 2019, 58, 5059-5063.	13.8	96

#	Article	IF	CITATIONS
3398	Z‣cheme Photocatalytic Systems for Carbon Dioxide Reduction: Where Are We Now?. Angewandte Chemie - International Edition, 2020, 59, 22894-22915.	13.8	435
3399	Pd supported on graphene modified gâ€C 3 N 4 hybrid: a highly efficient catalyst for hydrogenation of nitroarenes. Applied Organometallic Chemistry, 2020, 34, e5684.	3.5	9
3400	Graphitic carbon nitride (g ₃ N ₄)â€based nanosized heteroarrays: Promising materials for photoelectrochemical water splitting. , 2020, 2, 223-250.		114
3401	Carbon Nitride as a Ligand: Selective Hydrogenation of Terminal Alkenes Using [(η ⁵ ₅ Me ₅)IrCl(g ₃ N ₄ â€₽̂ ² Chemistry - A European Journal, 2020, 26, 6862-6868.	<is№,Nâ€⊺</i	™ ⊈/⊉>)]Cl.
3402	Emerging triâ€sâ€triazineâ€based graphitic carbon nitride: A potential signalâ€transducing nanostructured material for sensor applications. Nano Select, 2021, 2, 712-743.	3.7	27
3403	Current Perspective on Synthesis, Properties, and Application of Graphitic Carbon Nitride Related-Compounds. Engineering Materials, 2020, , 413-432.	0.6	2
3404	Designing Novel Photocatalysts for Disinfection of Multidrug-Resistant Waterborne Bacteria. Green Energy and Technology, 2020, , 441-476.	0.6	1
3405	Hybridized Graphitic Carbon Nitride (g-CN) as High Performance VOCsÂSensor. Materials Horizons, 2020, , 285-302.	0.6	7
3406	Graphitic carbon nitride nanodots: electronic structure and its influence factors. Journal of Materials Science, 2020, 55, 5488-5498.	3.7	3
3407	In situ Carbon Modification of g-C3N4 from Urea co-Crystal with Enhanced Photocatalytic Activity Towards Degradation of Organic Dyes Under Visible Light. Chemical Research in Chinese Universities, 2020, 36, 1265-1271.	2.6	6
3408	Green organic synthesis by photochemical protocol. , 2020, , 155-198.		4
3409	Molten salt synthesis of tetragonal carbon nitride hollow tubes and their application for removal of pollutants from wastewater. Applied Catalysis B: Environmental, 2018, 225, 307-313.	20.2	148
3410	From Traditional Strategies to Z-scheme Configuration in Graphitic Carbon Nitride Photocatalysts: Recent Progress and Future Challenges. Applied Catalysis B: Environmental, 2020, 276, 119157.	20.2	121
3411	Enhanced photocatalytic activity of Fe-doped Bi4O5Br2 nanosheets decorated with Au nanoparticles for pollutants removal. Applied Surface Science, 2020, 526, 146760.	6.1	32
3412	In-plane coupling electric field driving charge directional transfer for highly efficient H2 bubble evolution. Chemical Engineering Journal, 2020, 396, 125365.	12.7	23
3413	Fabrication of g-C3N4/SiO2-Au composite nanofibers with enhanced visible photocatalytic activity. Ceramics International, 2017, 43, 15699-15707.	4.8	34
3414	One-step preparation of novel K+ and cyano-group co-doped crystalline polymeric carbon nitride with highly efficient H2 evolution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 601, 125023.	4.7	28
3415	Construction of a new cascade photogenerated charge transfer system for the efficient removal of bio-toxic levofloxacin and rhodamine B from aqueous solution: Mechanism, degradation pathways and intermediates study. Environmental Research, 2020, 187, 109647.	7.5	29

#	Article	IF	CITATIONS
3416	In situ fabrication of CDs/g-C3N4 hybrids with enhanced interface connection via calcination ofÂthe precursors for photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2018, 43, 91-99.	7.1	55
3417	Carbon vacancies improved photocatalytic hydrogen generation of g-C3N4 photocatalyst via magnesium vapor etching. International Journal of Hydrogen Energy, 2020, 45, 13939-13946.	7.1	34
3418	Electrospun, flexible and reusable nanofiber mat of graphitic carbon nitride: Photocatalytic reduction of hexavalent chromium. Journal of Colloid and Interface Science, 2020, 575, 433-442.	9.4	24
3419	Surface modification to control the secondary pollution of photocatalytic nitric oxide removal over monolithic protonated g-C3N4/graphene oxide aerogel. Journal of Hazardous Materials, 2020, 397, 122822.	12.4	35
3420	Cr(VI) reduction over Ag3PO4/g-C3N4 composite with p-n heterostructure under visible-light irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 133-143.	5.3	18
3421	Visible light active ZnO–g-C3N4 photocatalyst for dye pollutant degradation. Materials Today: Proceedings, 2020, 25, 107-110.	1.8	11
3422	Selective Photocatalytic Oxidation of Benzyl Alcohol at Ambient Conditions using Spray-Dried g-C3N4/TiO2 Granules. Molecular Catalysis, 2020, 490, 110927.	2.0	12
3423	Au/TiO2(P25)-gC3N4 composites with low gC3N4 content enhance TiO2 sensitization for remarkable H2 production from water under visible-light irradiation. Nano Energy, 2020, 75, 104888.	16.0	53
3424	Double Insurance of Continuous Band Structure and N–C Layer Induced Prolonging of Carrier Lifetime to Enhance the Long-Wavelength Visible-Light Catalytic Activity of N-Doped In2O3. Inorganic Chemistry, 2021, 60, 1160-1171.	4.0	11
3425	Supramolecular Engineering and Self-Assembly Strategies in Photoredox Catalysis. ACS Catalysis, 2021, 11, 710-733.	11.2	40
3426	Recent Advances in Photocatalytic Materials for Solar Fuel Production from Water and Carbon Dioxide. RSC Energy and Environment Series, 2020, , 80-115.	0.5	2
3427	Hybrid CN-MEA microplates with enhanced photocatalytic hydrogen evolution under visible light irradiation. Catalysis Science and Technology, 2017, 7, 3777-3784.	4.1	8
3428	A magnetic CoFe ₂ O ₄ –CNS nanocomposite as an efficient, recyclable catalyst for peroxymonosulfate activation and pollutant degradation. RSC Advances, 2017, 7, 55020-55025.	3.6	47
3429	An excellent humidity sensor based on In–SnO ₂ loaded mesoporous graphitic carbon nitride. Journal of Materials Chemistry A, 2017, 5, 14134-14143.	10.3	120
3430	Two dimensional ZnO/AlN composites used for photocatalytic water-splitting: a hybrid density functional study. RSC Advances, 2019, 9, 36234-36239.	3.6	12
3431	One-step coating of commercial Ni nanoparticles with a Ni, N-co-doped carbon shell towards efficient electrocatalysts for CO ₂ reduction. Chemical Communications, 2020, 56, 7495-7498.	4.1	13
3432	Charge separation and successive reconfigurations of electronic and protonic states in a water-splitting catalytic cycle with the Mn ₄ CaO ₅ cluster. On the mechanism of water splitting in PSII. Physical Chemistry Chemical Physics, 2020, 22, 7912-7934.	2.8	8
3433	Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural. Chemical Society Reviews, 2020, 49, 4273-4306.	38.1	559

ARTICLE IF CITATIONS Construction of heterostructure based on hierarchical Bi₂MoO₆ and 3434 g-C₃N₄ with ease for impressive performance in photoelectrocatalytic water 43 4.1 splitting and supercapacitor. Catalysis Science and Technology, 2020, 10, 2427-2442. Binuclear Mn oxo complex as a self-contained photocatalyst in water-splitting cycle: Role of additional Mn oxides as a buffer of electrons and protons. Journal of Chemical Physics, 2020, 152, 3435 024115. One-step synthesis of high photocatalytic graphitic carbon nitride porous nanosheets. 3436 2.6 10 Nanotechnology, 2020, 31, 464001. Graphene/graphitic carbon nitride decorated with AgBr to boost photoelectrochemical performance 3437 with enhanced catalytic ability. Nanotechnology, 2020, 31, 505602. Novel adjustable monolayer carbon nitride membranes for high-performance saline water 3438 2.6 4 desalination. Nanotechnology, 2021, 32, 045706. Hydrothermal synthesis of a Coln₂S₄/g-C₃N₄ 3439 heterojunctional photocatalyst with enhanced photocatalytic H₂ evolution activity 2.6 under visible light illumination. Nanotechnology, 2020, 31, 505711. Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene. 3440 2.6 12 Nanotechnology, 2021, 32, 035707. Latest progress in g-C₃N₄ based heterojunctions for hydrogen production via 3441 5.3 photocatalytic water splitting: a mini review. JPhys Energy, 2020, Ž, 042003. Hydrogen from wastewater by photocatalytic and photoelectrochemical treatment. JPhys Energy, 2021, 3, 012006. 3442 5.3 23 Advances in photonics of recently developed Xenes. Nanophotonics, 2020, 9, 1621-1649. 6.0 3443 Microwave-Assisted Synthesis of Cobalt Oxide/Reduced Graphene Oxide (Co₃O₄â€"rGo) Composite and its Sulfite Enhanced Photocatalytic Degradation 17 3444 2.8 of Organic Dyes. Zeitschrift Fur Physikalische Chemie, 2020, 234, 1681-1708. Photocatalytic Activity for Hydrogen Evolution of Heteroatom-Doped SrTiO3 Prepared Using a 3445 2.6 Graphitic-Carbon Nitríde Nanosheet. Ceramics, 2020, 3, 22-30. Graphitic Carbon Nitride-Based Composite in Advanced Oxidation Processes for Aqueous Organic 3446 2.8 18 Pollutants Removal: A Review. Processes, 2021, 9, 66. Fluorescent Superparamagnetic Core-Shell Nanostructures: Facile Synthesis of Fe@C-CN<sub&gt;x&lt;/sub&gt; Particles for Reusable Photocatalysts. Advances in Nanoparticles, 2019, 08, 1-19. 3447 1.0 A Review on Photocatalytic Water Splitting. E3S Web of Conferences, 2021, 309, 01032. 3448 0.54 High Edge-Nitrogrn-Doped Porous Carbon Nanosheets with Rapid Pseudocapacitive Mechanism for 3449 Boosted Potassium-Ion Storage. SSRN Electronic Journal, 0, , . Supporting ultrathin "fish scale-like―BiOBr nanosheets on 3450 Bi₆Mo₂O₁₅ sub-microwires for boosting photocatalytic 2.6 0 performance. CrystEngComm, 2021, 23, 7720-7724. Stepping toward the carbon circular economy (CCE): Integration of solar chemistry and biosystems 3451 for an effective CO2 conversion into added value chemicals and fuels. Advances in Inorganic Chemistry, 2021, 78, 289-351.

#	Article	IF	CITATIONS
3452	A hydrogen evolution system based on hybrid nanogel films with capabilities of spontaneous moisture collection and high light harvesting. Green Chemistry, 2021, 23, 8969-8978.	9.0	13
3453	Graphitic carbon nitride photocatalysis: the hydroperoxyl radical role revealed by kinetic modelling. Catalysis Science and Technology, 2021, 11, 7712-7726.	4.1	10
3454	Nanostructured Heterojunction (1D-0D and 2D-0D) Photocatalysts for Environmental Remediation. , 2021, , 33-63.		0
3455	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. Chemical Society Reviews, 2021, 50, 12744-12787.	38.1	75
3456	Fabrication of ternary composites with polymeric carbon nitride/MoS2/reduced graphene oxide ternary hybrid aerogel as high-performance electrode materials for supercapacitors. New Journal of Chemistry, 2021, 45, 20660-20671.	2.8	1
3457	Graphitic carbon nitride (g-C ₃ N ₄) as a sustainable heterogeneous photocatalyst for metal free and oxygen-tolerant photo-atom transfer radical polymerization (photo-ATRP). Green Chemistry, 2021, 23, 9617-9624.	9.0	16
3458	Two-dimensional porous graphitic carbon nitride C6N7 monolayer: First-principles calculations. Applied Physics Letters, 2021, 119, .	3.3	57
3459	Atomistic Insights into the Reformation of CH ₄ with CO ₂ on Metal-Free gC ₃ N ₄ : Unraveling the Reaction Mechanisms Using First-Principles DFT Calculations. Journal of Physical Chemistry C, 2021, 125, 23021-23028.	3.1	7
3460	The synergy of adsorption and photosensitization of platinum-doped graphitic carbon nitride for improved removal of rhodamine B. Environmental Science and Pollution Research, 2021, , 1.	5.3	2
3461	Facet Junction Engineering for Photocatalysis: A Comprehensive Review on Elementary Knowledge, Facetâ€Synergistic Mechanisms, Functional Modifications, and Future Perspectives. Advanced Functional Materials, 2022, 32, 2106982.	14.9	51
3462	Metal-Free Z-Scheme aza-CMP/C ₂ N Heterostructure to Facilitate Photocatalytic CO ₂ Reduction: A Computational Study. Journal of Physical Chemistry C, 2021, 125, 23133-23141.	3.1	4
3463	Deprotonating Melamine to Gain Highly Interconnected Materials: Melaminate Salts of Potassium and Rubidium. Inorganic Chemistry, 2021, 60, 15069-15077.	4.0	3
3464	One step-polymerization for constructing 1D/2D oxygen doped g-C3N4 isotype heterojunctions with highly improved visible-light-driven photocatalytic activity. Journal of Environmental Chemical Engineering, 2021, 9, 106587.	6.7	13
3465	Solar-driven on-site H2O2 generation and tandem photo-Fenton reaction on a triphase interface for rapid organic pollutant degradation. Chemical Engineering Journal, 2022, 430, 133168.	12.7	27
3466	Understanding the roles of carbon in carbon/g-C3N4 based photocatalysts for H2 evolution. Nano Research, 0, , 1.	10.4	9
3467	Ordered and Ultralong Graphitic Carbon Nitride Nanotubes Obtained via In-Air CVD for Enhanced Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2021, 4, 13263-13271.	5.1	22
3468	Photocatalytic Activity of Supported Metal Nanoparticles and Single Atoms. Chemistry - A European Journal, 2021, 27, 17999-18014.	3.3	5
3469	Recent Progress in Quantum Dots Modified g 3 N 4 â€based Composite Photocatalysts. ChemistrySelect, 2021, 6, 10854-10871.	1.5	8

#	Article	IF	CITATIONS
3470	Surface-coordinated metal-organic framework thin films (SURMOFs): From fabrication to energy applications. EnergyChem, 2021, 3, 100065.	19.1	25
3471	A perspective on possible amendments in semiconductors for enhanced photocatalytic hydrogen generation by water splitting. International Journal of Hydrogen Energy, 2021, 46, 39036-39057.	7.1	36
3472	Carbon nitride oated transparent glass vials as photoinitiators for radical polymerization. Journal of Polymer Science, 2022, 60, 1827-1834.	3.8	5
3473	Facile preparation of a novel modified biochar-based supramolecular self-assembled g-C3N4 for enhanced visible light photocatalytic degradation of phenanthrene. Chemosphere, 2022, 288, 132620.	8.2	19
3474	Z-scheme K-C3N4/Ag/Ag3PMo12O40 heterojunction with improved visible light photodegradation of formaldehyde. Applied Surface Science, 2022, 574, 151693.	6.1	8
3475	Supramolecular Self-Assembly of Nitrogen-Deficient Ag/g-C ₃ N ₄ Nanofiber Films with Enhanced Charge Transfer Dynamics for Efficient Visible-Light Photocatalytic Activity. ACS Applied Materials & Interfaces, 2021, 13, 49993-50004.	8.0	26
3476	Self‣upporting 3D Carbon Nitride with Tunable n → π* Electronic Transition for Enhanced Solar Hydrogen Production. Advanced Materials, 2021, 33, e2104361.	21.0	105
3477	Visible light assisted activation of peroxymonosulfate by bimetallic MOF based heterojunction MIL-53(Fe/Co)/CeO2 for atrazine degradation: Pivotal roles of dual redox cycle for reactive species generation. Chemical Engineering Journal, 2022, 430, 133069.	12.7	68
3478	Photocatalytic Air Purification Using Functional Polymeric Carbon Nitrides. Advanced Science, 2021, 8, e2102376.	11.2	24
3479	Synergistic Modulation of the Separation of Photoâ€Generated Carriers via Engineering of Dual Atomic Sites for Promoting Photocatalytic Performance. Advanced Materials, 2021, 33, e2105904.	21.0	117
3480	Recyclable Carbon Nitride <scp>Nanosheetâ€Photocatalyzed</scp> Aminomethylation of Imidazo[1,2â€ <i>a</i>]pyridines in Green Solvent. Chinese Journal of Chemistry, 2022, 40, 97-103.	4.9	26
3481	TPPH/ <i>g</i> -C ₃ N ₄ Nanohybrids Constructed with Surfactant-Assisted Co-Assembly for Photocatalytic Hydrogen Generation. Nano, 2021, 16, .	1.0	0
3482	Cobalt Boride/g-C3N4 Nanosheets-Assisted Electrocatalytic Oxidation of 5-Hydroxymethylfurfural into 2,5-Furandicarboxylic Acid. Catalysts, 2021, 11, 1241.	3.5	4
3483	Selfâ€Assembled Fullerene Nanostructures: Synthesis and Applications. Advanced Functional Materials, 2022, 32, 2106924.	14.9	61
3484	Multi-dimensional applications of graphitic carbon nitride nanomaterials – A review. Journal of Molecular Liquids, 2021, 344, 117820.	4.9	46
3485	Impregnated Copper Ferrite on Mesoporous Graphitic Carbon Nitride: A Highâ€Performance Heterogeneous Catalyst for A ³ oupling Reaction. ChemistrySelect, 2021, 6, 10619-10624.	1.5	4
3486	Platinum deposition onto g-C3N4 with using of labile nitratocomplex for generation of the highly active hydrogen evolution photocatalysts. International Journal of Hydrogen Energy, 2022, 47, 11326-11340.	7.1	14
3487	<i>In Situ</i> Synthesized Rodlike MoS ₂ as a Cocatalyst for Enhanced Photocatalytic Hydrogen Evolution by Graphitic Carbon Nitride without a Noble Metal. ACS Applied Energy Materials, 2021, 4, 11836-11843.	5.1	15

#	Article	IF	CITATIONS
3488	Bidirectionally catalytic polysulfide conversion by high-conductive metal carbides for lithium-sulfur batteries. Journal of Energy Chemistry, 2022, 67, 73-81.	12.9	39
3489	Constructing three-dimensional network C, O Co-doped nitrogen-deficient carbon nitride regulated by acrylic fluoroboron overall marine antifouling. Journal of Colloid and Interface Science, 2022, 608, 1802-1812.	9.4	1
3490	Revealing the unexplored effect of residual iron oxide on the photoreforming activities of polypyrrole nanostructures on plastic waste and photocatalytic pollutant degradation. Journal of Environmental Chemical Engineering, 2022, 10, 106649.	6.7	25
3491	Formation of photo-reactive heterostructure from a multicomponent amorphous alloy with atomically random distribution. Journal of Materials Science and Technology, 2022, 109, 245-253.	10.7	2
3492	Synergistic Cyanamide Functionalization and Charge-Induced Activation of Nickel/Carbon Nitride for Enhanced Selective Photoreforming of Ethanol. ACS Applied Materials & Interfaces, 2021, 13, 49916-49926.	8.0	12
3493	Solid electrolyte membranes based on polybenzimidazole containing graphitic carbon nitride moiety (PBICN) for high-temperature fuel cell applications. Polymer, 2021, 235, 124247.	3.8	1
3494	2D/2D Heterojunction systems for the removal of organic pollutants: A review. Advances in Colloid and Interface Science, 2021, 297, 102540.	14.7	51
3495	Benzenesulfonyl chloride-incorporated g-C3N4 for photocatalytic hydrogen generation by using the hydrolysate of poly(lactic acid) as sacrificial reagent. Applied Catalysis A: General, 2021, 628, 118397.	4.3	10
3496	Design principle in biosensing: Critical analysis based on graphitic carbon nitride (G-C3N4) photoelectrochemical biosensor. TrAC - Trends in Analytical Chemistry, 2021, 145, 116454.	11.4	63
3497	Insights into the multiple mechanisms of chlorophenols oxidation via activating peroxymonosulfate by 3D N-doped porous carbon. Journal of Environmental Chemical Engineering, 2021, 9, 106545.	6.7	8
3498	Selective detection of Asulam with in-situ dopamine electropolymerization based electrochemical MIP sensor. Reactive and Functional Polymers, 2021, 169, 105069.	4.1	19
3499	Modeling of Non-Covalent Interactions of Vat Dyes with Carbon Nitride Fragments. Bulletin of the South Ural State University Series Chemistry, 2018, 10, 37-42.	0.2	0
3500	Photocatalytic Denitrification in Flue Gas. Energy and Environment Research in China, 2019, , 83-102.	1.1	0
3501	Ecofriendly Nanomaterials for Sustainable Photocatalytic Decontamination of Organics and Bacteria. , 2019, , 1777-1805.		0
3502	Photocatalysts based on polymeric carbon nitride for solar-to-fuel conversion. Interface Science and Technology, 2020, 31, 475-507.	3.3	2
3503	Perovskite Materials in Photovoltaics. Materials Horizons, 2020, , 175-207.	0.6	1
3504	Extending aromatic acids on TiO2 for cooperative photocatalysis with triethylamine: Violet light-induced selective aerobic oxidation of sulfides. Chinese Chemical Letters, 2022, 33, 3733-3738.	9.0	21
3505	Enhanced Light-Driven Hydrogen Generation in Carbon Nitride Photocatalysts by Interfacial Electron-Transfer Cascade. Journal of Alloys and Compounds, 2021, , 162499.	5.5	5

#	Article	IF	CITATIONS
3506	The fabrication of graphitic carbon nitride hollow nanocages with semi-metal 1T' phase molybdenum disulfide as co-catalysts for excellent photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2022, 608, 1229-1237.	9.4	26
3507	Photocatalytic degradation of anthracene by biochar-based graphitic carbon nitride. IOP Conference Series: Materials Science and Engineering, 2021, 1195, 012053.	0.6	2
3508	Recent developments in architecturing the g-C3N4 based nanostructured photocatalysts: Synthesis, modifications and applications in water treatment. Chemosphere, 2022, 291, 132735.	8.2	51
3509	Filter-membrane treatment of flowing antibiotic-containing wastewater through peroxydisulfate-coupled photocatalysis to reduce resistance gene and microbial inhibition during biological treatment. Water Research, 2021, 207, 117819.	11.3	35
3510	Atomically Thin Materials for Next-Generation Rechargeable Batteries. Chemical Reviews, 2022, 122, 957-999.	47.7	87
3511	Modifying g-C3N4 with oxidized Ti3C2 MXene for boosting photocatalytic U(VI) reduction performance. Journal of Molecular Liquids, 2022, 346, 117937.	4.9	17
3512	Enhanced Light-driven CO2 Reduction on Metal-free Rich Terminal Oxygen-defects Carbon Nitride Nanosheets. Journal of Colloid and Interface Science, 2021, 608, 2505-2505.	9.4	4
3513	Internal-electric-field induced high efficient type-I heterojunction in photocatalysis-self-Fenton reaction: Enhanced H2O2 yield, utilization efficiency and degradation performance. Journal of Colloid and Interface Science, 2022, 608, 2075-2087.	9.4	37
3514	One-Dimensional Conjugated Carbon Nitrides: Synthesis and Structure Determination by HRTEM and Solid-State NMR. Journal of Physical Chemistry Letters, 2021, 12, 10359-10365.	4.6	9
3515	A controllable preparation of two-dimensional cobalt oxalate-based nanostructured sheets for electrochemical energy storage. Chinese Chemical Letters, 2022, 33, 3249-3254.	9.0	16
3516	Hydrophilic and underwater superoleophobic porous graphitic carbon nitride (g-C3N4) membranes with photo-Fenton self-cleaning ability for efficient oil/water separation. Journal of Colloid and Interface Science, 2022, 608, 1960-1972.	9.4	55
3517	In-situ synthesized and photocatalytic performance evaluation of MoS2-C-g-C3N4 heterostructure photocatalyts. Advanced Powder Technology, 2021, 32, 4805-4813.	4.1	4
3518	Nanostructure Engineering of Graphitic Carbon Nitride for Electrochemical Applications. ACS Nano, 2021, 15, 18777-18793.	14.6	61
3519	Microtubular carbonized cotton fiber modified g-C3N4 for the enhancement of visible-light-driven photocatalytic activity. Materials Today Communications, 2021, 29, 102926.	1.9	3
3520	Polymer Electrocatalysis. , 2020, , 125-147.		0
3521	Metal–Organic Nanocapsules with Functionalized s-Heptazine Ligands. Inorganic Chemistry, 2021, 60, 570-573.	4.0	0
3522	Double-Inverse-Opal-Structured Particle Assembly as a Novel Immobilized Photocatalytic Material. Materials, 2021, 14, 28.	2.9	7
3523	Graphitic carbon nitride-based photocatalysts for hydrogen production. , 2022, , 213-236.		3

#	Article	IF	CITATIONS
3524	Engineering metal-organic frameworks for efficient photocatalytic conversion of CO2 into solar fuels. Coordination Chemistry Reviews, 2022, 450, 214245.	18.8	64
3525	Green processes and sustainable materials for renewable energy production via water splitting. , 2022, , 169-212.		4
3526	Cellulose tailored semiconductors for advanced photocatalysis. Renewable and Sustainable Energy Reviews, 2022, 154, 111820.	16.4	37
3527	Two-dimensional nanomaterials for high-efficiency electromagnetic wave absorption: An overview of recent advances and prospects. Journal of Alloys and Compounds, 2022, 893, 162343.	5.5	115
3528	Efficient photocatalytic degradation of ciprofloxacin using novel dual Z-scheme gCN/CuFe2O4/MoS2 mediated peroxymonosulphate activation. Chemical Engineering Journal, 2022, 430, 132834.	12.7	70
3529	Self-assembly hybridization of COFs and g-C3N4: Decipher the charge transfer channel for enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2022, 608, 1051-1063.	9.4	32
3530	Reducing ROS generation and accelerating the photocatalytic degradation rate of PPCPs at neutral pH by doping Fe-N-C to g-C3N4. Applied Catalysis B: Environmental, 2022, 301, 120790.	20.2	39
3531	A host–guest self-assembly strategy to enhance π-electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. Chemical Engineering Journal, 2022, 430, 132880.	12.7	33
3532	H ₂ and CH ₄ production from bio-alcohols using condensed poly(heptazine) Tj ETQq0 C) 0 rgBT /C	Vyerlock 10 T
3533	A new chemical compound with an unusual ratio of number of carbon and nitrogen atoms – C(N12): quantum-chemical modelling. RSC Advances, 2021, 11, 35974-35981.	3.6	2
3534	Graphitic Carbon Nitride/Metal Oxides Nanocomposites and Their Applications in Engineering. , 2020, , 231-265.		0
3535	Photocatalytic Reduction of Re (VII) on Amorphous TiO2/g-C3N4 Derived from Different N Sources. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2020, 35, 1340.	1.3	3
3536	Removal of Methylene Blue Dye Using Metal-Free g-C ₃ N ₄ Photocatalyst over Natural Sunlight Irradiation. Materials Science Forum, 0, 975, 115-120.	0.3	1
3537	Carbon nitride for photovoltaic applications. AIP Conference Proceedings, 2020, , .	0.4	1
3538	Improving Charge Separation in Cu2O/g-C3N4/CoS Photocathodes by a Z-Scheme Heterojunction to Achieve Enhanced Performance and Photostability. ACS Symposium Series, 2020, , 111-136.	0.5	3
3539	Mass production of a single-atom cobalt photocatalyst for high-performance visible-light photocatalytic CO ₂ reduction. Journal of Materials Chemistry A, 2021, 9, 26286-26297.	10.3	32
3540	Semi-heterogeneous photocatalytic fluoroalkylation-distal functionalization of unactivated alkenes with R _F SO ₂ Na under air atmosphere. Green Chemistry, 2021, 23, 9577-9582.	9.0	19

3541	Organic Photo-antimicrobials: Principles, Molecule Design, and Applications. Journal of the American Chemical Society, 2021, 143, 17891-17909.	13.7	71
------	--	------	----

# 3542	ARTICLE Engineering interfacial band bending over bismuth vanadate/carbon nitride by work function regulation for efficient solar-driven water splitting. Science Bulletin, 2022, 67, 389-397.	IF 9.0	Citations
3543	Surface modification with oxygen doping of g-C3N4 nanoparticles by carbon vacancy for efficient dehydrogenation of sodium borohydride in methanol. Fuel, 2022, 310, 122444.	6.4	43
3544	Enhancement of the Photodegradation Activity of Methylene Blue by the Lowâ€ŧemperature Regulation of Oxideâ€ŧich Graphitic Carbon Nitride. ChemistrySelect, 2021, 6, 11407-11416.	1.5	3
3545	Ab Initio Nonadiabatic Surface-Hopping Trajectory Simulations of Photocatalytic Water Oxidation and Hydrogen Evolution with the Heptazine Chromophore. Journal of Physical Chemistry A, 2021, 125, 9917-9931.	2.5	10
3546	The role of guanidine hydrochloride in graphitic carbon nitride synthesis. Scientific Reports, 2021, 11, 21600.	3.3	8
3547	Crossâ€dehydrogenative Coupling of <i>N</i> â€Aryl Tetrahydroisoquinolines Catalyzed by an Anthraquinoneâ€containing Polymeric Photosensitizer. Chemistry - an Asian Journal, 2021, 16, 4087-4094.	3.3	3
3548	A review of recent progress on photocatalytic carbon dioxide reduction into sustainable energy products using carbon nitride. Chemical Engineering Research and Design, 2022, 177, 304-320.	5.6	14
3549	Construction of Interfacial Electric Field via Dualâ€Porphyrin Heterostructure Boosting Photocatalytic Hydrogen Evolution. Advanced Materials, 2022, 34, e2106807.	21.0	139
3550	Recent Trends in Graphitic Carbon Nitride-Based Binary and Ternary Heterostructured Electrodes for Photoelectrochemical Water Splitting. Processes, 2021, 9, 1959.	2.8	10
3551	Geometry-tunable sulfur-doped carbon nitride nanotubes with high crystallinity for visible light nitrogen fixation. Chemical Engineering Journal, 2022, 431, 133412.	12.7	28
3552	Visible-light photocatalytic tetracycline degradation over nanodots-assembled N-ZrO2â^'x nanostructures: Performance, degradation pathways and mechanistic insight. Journal of Alloys and Compounds, 2022, 895, 162582.	5.5	24
3553	Reduction of CO2 by photoelectrochemical process using nonâ€oxide twoâ€dimensional nanomaterials ―a review. ChemElectroChem, 2021, 8, 4305.	3.4	8
3554	Nanomaterials for the Photoremediation of Pollutants. Environmental Chemistry for A Sustainable World, 2021, , 283-319.	0.5	0
3555	Photocatalytic Regeneration of Activated Carbon by Combining g-C3N4 Photocatalyst under Visible Light Irradiation. ECS Journal of Solid State Science and Technology, 2020, 9, 101007.	1.8	Ο
3556	Ferromagnetism triggered by nitrogen defects in graphitic carbon nitride. Journal Physics D: Applied Physics, 2020, 53, 495002.	2.8	2
3557	Development of Photoactive -CN/Poly(vinyl alcohol) Composite Hydrogel Films with Antimicrobial and Antibiofilm Activity. ACS Applied Bio Materials, 2020, 3, 1681-1689.	4.6	3
3558	Redistributing Zn ion flux by bifunctional graphitic carbon nitride nanosheets for dendrite-free zinc metal anodes. Journal of Materials Chemistry A, 2021, 9, 27408-27414.	10.3	37
3559	Z-Scheme nanocomposite with high redox ability for efficient cleavage of lignin C–C bonds under simulated solar light. Green Chemistry, 2021, 23, 10071-10078.	9.0	30

#	Article	IF	CITATIONS
3560	Pickering emulsions stabilized by metal–organic frameworks, graphitic carbon nitride and graphene oxide. Soft Matter, 2021, 18, 10-18.	2.7	12
3561	Controlling the band structure and photocatalytic performance of single atom Ag/C ₃ N ₄ catalysts by variation of silver concentration. Inorganic Chemistry Frontiers, 2022, 9, 302-309.	6.0	20
3562	In situ growth of g-C3N4 on clay minerals of kaolinite, sepiolite, and talc for enhanced solar photocatalytic energy conversion. Applied Clay Science, 2022, 216, 106337.	5.2	13
3563	High edge-nitrogen-doped porous carbon nanosheets with rapid pseudocapacitive mechanism for boosted potassium-ion storage. Carbon, 2022, 187, 302-309.	10.3	18
3564	Efficient photocatalytic H2-evolution coupled with valuable furfural-production on exquisite 2D/2D LaVO4/g-C3N4 heterostructure. Nano Energy, 2022, 92, 106714.	16.0	79
3565	An efficient B/Na co-doped porous g-C3N4 nanosheets photocatalyst with enhanced photocatalytic hydrogen evolution and degradation of tetracycline under visible light. Applied Surface Science, 2022, 576, 151837.	6.1	33
3566	Screen superior ultra-thin g-C3N4 material for photocatalytic in-situ H2O2 production to remove tetracycline. Applied Surface Science, 2022, 576, 151841.	6.1	25
3567	Sn/SnO core-shell structure encapsulated in nitrogen-doped porous carbon frameworks for enhanced lithium storage. Journal of Alloys and Compounds, 2022, 896, 163009.	5.5	8
3568	Novel 2D boron nitride with optimal direct band gap: A theoretical prediction. Applied Surface Science, 2022, 578, 151929.	6.1	19
3569	Nitrogen defects/boron dopants engineered tubular carbon nitride for efficient tetracycline hydrochloride photodegradation and hydrogen evolution. Applied Catalysis B: Environmental, 2022, 303, 120932.	20.2	127
3570	A synergism between Schottky junction and interfacial P-Ni bond for improving the hydrogen evolution of 2D/2D NiS/Phosphorus-doped g-C3N4 photocatalyst. Applied Surface Science, 2022, 578, 152004.	6.1	13
3571	Photocatalytic Air Decontamination from Volatile Organic Pollutants Using Graphite-Like Carbon Nitride: a Review. Theoretical and Experimental Chemistry, 2021, 57, 237-261.	0.8	3
3572	Fabrication of g-C3N4/Sn3O4/Ni electrode for highly efficient photoelectrocatalytic reduction of U(VI). Chemical Engineering Journal, 2022, 433, 133766.	12.7	28
3573	Construction of Au/g-C3N4/ZnIn2S4 plasma photocatalyst heterojunction composite with 3D hierarchical microarchitecture for visible-light-driven hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 2900-2913.	7.1	43
3574	Fluorinated inverse opal carbon nitride combined with vanadium pentoxide as a Z-scheme photocatalyst with enhanced photocatalytic activity. Chinese Chemical Letters, 2022, 33, 3797-3801.	9.0	8
3575	Investigation of pure and g-C3N4 loaded CdWO4 photocatalytic activity on reducing toxic pollutants. Chemosphere, 2021, , 133090.	8.2	10
3576	Recent Advances in gâ€C ₃ N ₄ â€Based Photocatalysts for Pollutant Degradation and Bacterial Disinfection: Design Strategies, Mechanisms, and Applications. Small, 2022, 18, e2105089.	10.0	39
3577	Interfacial optimization of CeO2 nanoparticles loaded two-dimensional graphite carbon nitride toward synergistic enhancement of visible-light-driven photoelectric and photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 2313-2326.	7.1	8

#	Article	IF	CITATIONS
3578	gCN-P: a coupled g-C3N4/persulfate system for photocatalytic degradation of organic pollutants under simulated sunlight. Environmental Science and Pollution Research, 2022, 29, 23280-23291.	5.3	5
3579	Application of Graphdiyne and Its Analogues in Photocatalysis and Photoelectrochemistry. Chemical Research in Chinese Universities, 2021, 37, 1195-1212.	2.6	10
3580	Comparative study of KF, KCl and KBr doped with graphitic carbon nitride for superior photocatalytic degradation of methylene blue under visible light. Journal of Materials Research and Technology, 2021, 15, 6340-6355.	5.8	23
3581	Biomassâ€Induced Diphasic Carbon Decoration for Carbon Nitride: Band and Electronic Engineering Targeting Efficient N ₂ Photofixation. Small, 2022, 18, e2105217.	10.0	14
3582	Supramolecular Rh6 catalytic system promoting directed [4+4] cycloaddition reaction of anthracene under UV irradiation. Journal of Solid State Chemistry, 2021, 306, 122785.	2.9	6
3583	CdIn2S4/In(OH)3/NiCr-LDH Multi-Interface Heterostructure Photocatalyst for Enhanced Photocatalytic H2 Evolution and Cr(VI) Reduction. Nanomaterials, 2021, 11, 3122.	4.1	8
3584	Recycling Spent LiCoO ₂ Battery as a Highâ€efficient Lithiumâ€doped Graphitic Carbon Nitride/Co ₃ O ₄ Composite Photocatalyst and Its Synergistic Photocatalytic Mechanism. Energy and Environmental Materials, 2023, 6, .	12.8	16
3585	Boosting the photocatalytic hydrogen production performance of graphitic carbon nitride nanosheets by tailoring the cyano groups. Journal of Colloid and Interface Science, 2022, 610, 495-503.	9.4	18
3586	Engineering Nitrogen Vacancy in Polymeric Carbon Nitride for Nitrate Electroreduction to Ammonia. ACS Applied Materials & Interfaces, 2021, 13, 54967-54973.	8.0	42
3587	Fluorescent graphitic carbon nitride with photocatalytic oxidase-like activity for anti-counterfeiting application. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 268, 120685.	3.9	3
3588	Nanoarchitectonics of phosphorylated graphitic carbon nitride for sustainable, selective and metal-free synthesis of primary amides. Chemical Engineering Journal, 2022, 431, 133695.	12.7	24
3589	Boosting photocatalytic hydrogen production by creating isotype heterojunctions and single-atom active sites in highly-crystallized carbon nitride. Science Bulletin, 2022, 67, 520-528.	9.0	29
3590	Enhanced quinoline degradation by 3D stack Z-scheme photoelectrocatalytic system with Ag-TNTs photoanode and CN-CNWs photocathode. Journal of Environmental Chemical Engineering, 2022, 10, 106826.	6.7	6
3591	Limbic Inducted and Delocalized Effects of Diazole in Carbon Nitride Skeleton for Propelling Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 56273-56284.	8.0	29
3592	Decorating tungsten oxide on g-C3N4 nanosheet as Z-scheme heterogeneous photocatalyst for efficient hydrogen evolution. Journal of Alloys and Compounds, 2021, 896, 162931.	5.5	7
3593	Graphitic Carbon Nitride as a Platform for the Synthesis of Silver Nanoclusters. Nanoscale Research Letters, 2021, 16, 166.	5.7	5
3594	Boosting Photocatalytic Activity Using Carbon Nitride Based 2D/2D van der Waals Heterojunctions. Chemistry of Materials, 2021, 33, 9012-9092.	6.7	88
3595	Decoration of g-C3N4 by inorganic cluster of polyoxometalate through organic linker strategy for enhancing photoelectrocatalytic performance under visible light. International Journal of Hydrogen Energy, 2022, 47, 3001-3012.	7.1	14

#	Article	IF	CITATIONS
3596	Simultaneous removal of micropollutants, antibiotic resistant bacteria, and antibiotic resistance genes using graphitic carbon nitride under simulated solar irradiation. Chemical Engineering Journal, 2022, 433, 133839.	12.7	25
3597	Singlet Oxygen- and Hole-Mediated Selective Oxidation of Arylethylenes to Aryltetralones by Ag/Ag ₃ PO ₄ under Visible Light Irradiation. ACS Sustainable Chemistry and Engineering, 2021, 9, 16670-16677.	6.7	11
3598	Interfacial Engineering of TiO ₂ /Ti ₃ C ₂ MXene/Carbon Nitride Hybrids Boosting Charge Transfer for Efficient Photocatalytic Hydrogen Evolution. Advanced Energy Materials, 2022, 12, .	19.5	80
3599	One-step synthesis of melamine-sponge functionalized carbon nitride for excellent water sterilization via photogenerated holes and photothermal conversion. Journal of Colloid and Interface Science, 2022, 610, 893-904.	9.4	9
3600	Layered g-C3N4/TiO2 nanocomposites for efficient photocatalytic water splitting and CO2 reduction: a review. Materials Today Energy, 2022, 23, 100904.	4.7	38
3601	Solar Light Photoactive Floating Polyaniline/TiO2 Composites for Water Remediation. Nanomaterials, 2021, 11, 3071.	4.1	10
3602	Synthesis and characterization of Bi2SiO5-coated Ag/AgBr photocatalyst with highly efficient decontamination of organic pollutants. Applied Surface Science, 2022, 578, 152074.	6.1	18
3603	CxNy: New Carbon Nitride Organic Photocatalysts. Frontiers in Materials, 2021, 8, .	2.4	9
3604	Carbonaceous nanomaterial-TiO2 heterojunctions for visible-light-driven photocatalytic degradation of aqueous organic pollutants. Applied Catalysis A: General, 2022, 630, 118460.	4.3	26
3605	Dual Modification of Carbon Support Enables Robust Anchoring of Ruthenium Nanoclusters for Efficient Hydrogen Evolution and Aromatic Nitroreduction. Advanced Materials Interfaces, 2022, 9, 2101564.	3.7	4
3606	Design a novel g-C3N4 based Ce2O3/CuO ternary photocatalysts for superior photo-degradation performance of organic mixed pollutants: Insights of Z-scheme charge transfer mechanism. Journal of Physics and Chemistry of Solids, 2022, 162, 110514.	4.0	14
3607	Fabrication of visible-light-driven tubular F, P-codoped graphitic carbon nitride for enhanced photocatalytic degradation of tetracycline. Journal of Environmental Chemical Engineering, 2022, 10, 106905.	6.7	24
3608	Optimized design of visible light-driven g-C3N4 nanorod/Ag3PO4 Z-scheme heterojunction with enhanced interfacial charge separation and photocatalytic activity. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	2
3609	Template-Directed Fabrication of Highly Efficient Metal–Organic Framework Photocatalysts. ACS Applied Materials & Interfaces, 2021, 13, 58619-58629.	8.0	9
3610	Visible-light-driven photocatalytic inactivation of Escherichia coli by 0D/2D CeO2/g-C3N4 heterojunction: bactericidal performance and mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 106759.	6.7	19
3611	Chlorophyll derivatives/MXene hybrids for photocatalytic hydrogen evolution: Dependence of performance on the central coordinating metals. International Journal of Hydrogen Energy, 2022, 47, 3824-3833.	7.1	14
3612	Preparation of Na-Doped Defect g-C ₃ N ₄ via Molten Salt Method. Material Sciences, 2021, 11, 1211-1224.	0.0	1
3613	Enhanced Visible-Light Photocatalytic Degradation of Rhodamine B Over TiO ₂ @CS-biochar Heterojunctions Constructed by Co-Calcination Method. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
3614	Facile Synthesis of g-C ₃ N ₄ /Ag ₂ C ₂ O ₄ Heterojunction Composite Membrane with Efficient Visible Light Photocatalytic Activity for Water Disinfection. SSRN Electronic Journal, 0, , .	0.4	0
3615	Magnetic and Fluorescent Nanogels for Nanomedicine. Gels Horizons: From Science To Smart Materials, 2021, , 73-105.	0.3	1
3616	Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. Chemical Society Reviews, 2021, 50, 13692-13729.	38.1	97
3617	Precise Regulation of Ultra-Thin Pt Decorated Au/g-C ₃ N ₄ Photocatalysts by ALD for Efficient Degradation of RhB Under Simulated Sunlight. SSRN Electronic Journal, 0, , .	0.4	0
3618	Highly dispersed Ag nanoparticles <i>in situ</i> creating rich cyano defects in carbon nitride for efficient photocatalytic H ₂ production. New Journal of Chemistry, 2021, 45, 22039-22043.	2.8	5
3619	Construction and performance of a simple and efficient g-C ₃ N ₄ photocatalytic hydrogen production system. RSC Advances, 2021, 11, 36034-36041.	3.6	1
3620	Precise Regulation of Ultra-Thin Pt Decorated Au/g-C ₃ N ₄ Photocatalysts by ALD for Efficient Degradation of RhB Under Simulated Sunlight. SSRN Electronic Journal, 0, , .	0.4	0
3621	Bi-doped graphitic carbon nitride nanotubes boost the photocatalytic degradation of Rhodamine B. New Journal of Chemistry, 2022, 46, 3588-3594.	2.8	20
3622	Graphitic Carbon Nitride for Photoelectrochemical Detection of Environmental Pollutants. ACS ES&T Engineering, 2022, 2, 140-157.	7.6	41
3623	Mesoporous cobalt tungstate nanoparticles for efficient and stable visible-light-driven photocatalytic CO2 reduction. Materials Today Energy, 2022, 24, 100943.	4.7	31
3624	Interfacing g-C ₃ N ₄ Nanosheets with CdS Nanorods for Enhanced Photocatalytic Hydrogen Evolution: An Ultrafast Investigation. Journal of Physical Chemistry B, 2022, 126, 572-580.	2.6	16
3625	Graphitic carbon nitride supported neodymium oxide as an efficient recyclable nanocatalyst for the one-pot synthesis of diazabenzo[<i>a</i>]anthraceneones. Dalton Transactions, 2022, 51, 1163-1174.	3.3	6
3626	Effect of the cross-linker length of thiophene units on photocatalytic hydrogen production of triazine-based conjugated microporous polymers. RSC Advances, 2021, 12, 708-718.	3.6	16
3627	The use of nanophotocatalysts for the effective mitigation of polycyclic aromatic hydrocarbons in aqueous phase. Journal of Cleaner Production, 2022, 333, 130026.	9.3	5
3628	Unveiling the mechanism of high-performance hydrogen evolution reaction on noble-metal-free (113)-faceted Ni ₃ C: <i>ab initio</i> calculations. RSC Advances, 2021, 12, 869-873.	3.6	1
3629	Single-atom cobalt-hydroxyl modification of polymeric carbon nitride for highly enhanced photocatalytic water oxidation: ball milling increased single atom loading. Chemical Science, 2022, 13, 754-762.	7.4	20
3630	A critical review on graphitic carbon nitride (g-C3N4)-based materials: Preparation, modification and environmental application. Coordination Chemistry Reviews, 2022, 453, 214338.	18.8	279
3631	Sequential combination of photocatalysis and microalgae technology for promoting the degradation and detoxification of typical antibiotics. Water Research, 2022, 210, 117985.	11.3	70

#	Article	IF	CITATIONS
3632	The photocatalytic degradation of naproxen with g-C3N4 and visible light: Identification of primary by-products and mechanism in tap water and ultrapure water. Journal of Environmental Chemical Engineering, 2022, 10, 106964.	6.7	12
3633	Boosting ion dynamics by developing graphitic carbon Nitride/Carbon hybrid electrode materials for ionogel supercapacitor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 276, 115573.	3.5	9
3634	Nitrogen-doped carbon dots as electron "bridge―in heterostructure of alpha-Fe2O3/NCDs/g-C3N4 for efficient degradation of indole using heterogeneous photo-Fenton. Journal of Environmental Chemical Engineering, 2022, 10, 106824.	6.7	8
3635	Deprivation of unpaired electrons on graphitic carbon nitride-based carbocatalysts by peroxydisulfate driving a nonradical oxidation process. Journal of Cleaner Production, 2022, 334, 130220.	9.3	3
3636	Interaction between HCHO molecule and B, Zn co-doped g-C3N4 surface: A DFT study. Surfaces and Interfaces, 2022, 28, 101667.	3.0	2
3637	Non-radical activation of CaO2 nanoparticles by MgNCN/MgO composites for efficient remediation of organic and heavy metal-contaminated wastewater. Separation and Purification Technology, 2022, 285, 120334.	7.9	10
3638	Unraveling highly efficient nanomaterial photocatalyst for pollutant removal: a comprehensive review and future progress. Materials Today Chemistry, 2022, 23, 100692.	3.5	26
3639	Recent progress in red phosphorus-based photocatalysts for photocatalytic water remediation and hydrogen production. Applied Materials Today, 2022, 26, 101345.	4.3	10
3640	Copper phosphide decorated g-C3N4 catalysts for highly efficient photocatalytic H2 evolution. Journal of Colloid and Interface Science, 2022, 610, 126-135.	9.4	37
3641	Roles of Zn single atom over carbon nitride-based heterojunction in boosting photogenerated carrier transfer. Separation and Purification Technology, 2022, 285, 120404.	7.9	4
3642	Reactive oxygen species scavenging by hemin-based nanosheets reduces Parkinson's disease symptoms in an animal model. Chemical Engineering Journal, 2022, 432, 134356.	12.7	16
3643	Origins of selective differential oxidation of β-lactam antibiotics with different structure in an efficient visible-light driving mesoporous g-C3N4 activated persulfate synergistic mechanism. Journal of Hazardous Materials, 2022, 426, 128111.	12.4	10
3644	A promising catalytic solution of NO reduction by CO using g-C3N4/TiO2: A DFT study. Journal of Colloid and Interface Science, 2022, 610, 152-163.	9.4	7
3645	A critical review on N-modified TiO2 limits to treat chemical and biological contaminants in water. Evidence that enhanced visible light absorption does not lead to higher degradation rates under whole solar light. Journal of Hazardous Materials, 2022, 425, 127979.	12.4	18
3646	Preparation of sodium and boron co-doped graphitic carbon nitride for the enhanced production of H2O2 via two-electron oxygen reduction and the degradation of 2,4-DCP via photocatalytic oxidation coupled with Fenton oxidation. Chemical Engineering Journal, 2022, 431, 134020.	12.7	43
3647	First-principles calculations of molecular adsorption on the surface of two-dimensional BCOH. Chemical Physics, 2022, 555, 111442.	1.9	1
3648	Template-free preparation of carbon nitride hollow spheres with adjustable sizes for photocatalytic hydrogen generation. Journal of Colloid and Interface Science, 2022, 612, 479-487.	9.4	13
3649	Construction of S-scheme CdS/g-C3N4 nanocomposite with improved visible-light photocatalytic degradation of methylene blue. Environmental Research, 2022, 206, 112556.	7.5	28

#	ARTICLE	IF	CITATIONS
3650	Hydrochar-mediated photocatalyst Fe3O4/BiOBr@HC for highly efficient carbamazepine degradation under visible LED light irradiation. Chemical Engineering Journal, 2022, 433, 134492.	12.7	29
3651	Fabrication of three-dimensional hierarchical porous 2D/0D/2D g-C3N4 modified MXene-derived TiO2@C: Synergy effect of photocatalysis and H2O2 oxidation in NO removal. Journal of Colloid and Interface Science, 2022, 612, 434-444.	9.4	17
3652	The influence of band bending phenomenon on photocatalytic Suzuki-Miyaura coupling reaction: The case of AgPd alloy nanoparticles supported on graphitic carbon nitride. Applied Surface Science, 2022, 580, 152287.	6.1	10
3653	One-step calcination synthesis of accordion-like MXene-derived TiO2@C coupled with g-C3N4: Z-scheme heterojunction for enhanced photocatalytic NO removal. Separation and Purification Technology, 2022, 285, 120329.	7.9	18
3654	Cl/S co-doped carbon nitride nanotube clusters effectively drive the metal-free photo-Fenton reaction under visible light: A new ROS conversion mechanism. Carbon, 2022, 190, 32-46.	10.3	21
3655	Eco-friendly synthesis of g-carbon nitride coated graphene nanocomposites for superior visible photodegradation of hydroquinone: Physicochemical mechanisms and photo-Fenton effect. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113734.	3.9	5
3656	C6N3: A novel 2D carbon nitride with sp-N as support for efficient hydrogen production. Journal of Colloid and Interface Science, 2022, 611, 472-479.	9.4	2
3657	High-valent iron-oxo species mediated cyclic oxidation through single-atom Fe-N6 sites with high peroxymonosulfate utilization rate. Applied Catalysis B: Environmental, 2022, 305, 121049.	20.2	48
3658	Surface modification of carbon nitride with single Co sites via a solvent-driven strategy promoting highâ€efficiency photocatalytic overall water splitting. Applied Surface Science, 2022, 581, 152328.	6.1	10
3659	CdS-sensitized 3D ordered macroporous g-C3N4 for enhanced visible-light photocatalytic hydrogen generation. Journal of Materials Science and Technology, 2022, 111, 204-210.	10.7	25
3660	Efficient Visible Light Driven Degradation of Antibiotic Pollutants by Oxygen-Doped Porous Graphitic Carbon Nitride Nanosheets Via the Homogeneous Supramolecular Assembly of Urea. SSRN Electronic Journal, 0, , .	0.4	0
3661	Synthesis of Ternary Photocatalyst and its Application in Photocatalytic Degradation and Hydrogen Production. SSRN Electronic Journal, O, , .	0.4	0
3662	High-Efficiency and Selective Capture of Nitric Oxide by Fluorine-Modified Carbon Nitride: A DFT Investigation. SSRN Electronic Journal, 0, , .	0.4	0
3663	A 'Green' All-Organic Heterostructure Functionalized by Self-Assembled Fullerene Small Molecule with Enhanced Photocatalytic Activity. SSRN Electronic Journal, 0, , .	0.4	0
3664	Fluorescent g-C3N4 nanosheets enhanced photosynthetic efficiency in maize. NanoImpact, 2021, 24, 100363.	4.5	7
3665	An S-scheme heterojunction constructed from α-Fe ₂ O ₃ and In-doped carbon nitride for high-efficiency CO ₂ photoreduction. Catalysis Science and Technology, 2022, 12, 1520-1529.	4.1	16
3666	C ₃ N ₄ /Cu/ZnFe ₂ O ₄ Ternary Nanocomposites: Removal of Environmental Pollutants by the Synergy of Physical Adsorption and Photocatalysis. ChemistrySelect, 2022, 7, .	1.5	2
3667	Photo-assisted electrolysis of urea using Ni-modified WO3/g-C3N4 as a bifunctional catalyst. International Journal of Hydrogen Energy, 2022, 47, 5797-5806.	7.1	13

#	Article	IF	CITATIONS
3668	Suppression of Charge Recombination by Auxiliary Atoms in Photoinduced Charge Separation Dynamics with Mn Oxides: A Theoretical Study. Molecules, 2022, 27, 755.	3.8	0
3669	Strategies to Improve Photodynamic Therapy Efficacy of Metal-Free Semiconducting Conjugated Polymers. International Journal of Nanomedicine, 2022, Volume 17, 247-271.	6.7	14
3670	Significantly enhanced charge transfer efficiency and surface reaction on NiP2/g-C3N4 heterojunction for photocatalytic hydrogen evolution. Chinese Journal of Chemical Engineering, 2022, 43, 31-39.	3.5	12
3671	N, P Dual-Doped Porous Carbon Nanosheets for High-Efficiency CO ₂ Electroreduction. ACS Sustainable Chemistry and Engineering, 2022, 10, 1880-1887.	6.7	12
3672	Hydrothermal synthesis, crystal structure, and visible light photocatalytic hydrogen evolution of a 3D cobalt (II) coordination polymer. Ionics, 2022, 28, 1927-1933.	2.4	1
3673	Porous monolith of few-layered boron nitride for effective water cleanup. Journal of Materials Chemistry A, 2022, 10, 846-854.	10.3	8
3674	Light-driven carbon nitride microswimmers with propulsion in biological and ionic media and responsive on-demand drug delivery. Science Robotics, 2022, 7, eabm1421.	17.6	52
3675	Graphitic carbon nitride (g–C3N4)–based semiconductor as a beneficial candidate in photocatalysis diversity. International Journal of Hydrogen Energy, 2022, 47, 5142-5191.	7.1	65
3676	The magnetically separable Pd/C3N4/Fe3O4 nanocomposite as a bifunctional photocatalyst for tetracycline degradation and hydrogen evolution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128404.	4.7	9
3677	Incorporating nitrogen vacancies in exfoliated B-doped g-C ₃ N ₄ towards improved photocatalytic ciprofloxacin degradation and hydrogen evolution. New Journal of Chemistry, 2022, 46, 3493-3503.	2.8	36
3678	Highly Conjugated Graphitic Carbon Nitride Nanofoam for Photocatalytic Hydrogen Evolution. Langmuir, 2022, 38, 1471-1478.	3.5	7
3679	Graphitic carbon nitride for organic transformation. , 2022, , 393-456.		3
3680	Understanding the mechanism of interfacial interaction enhancing photodegradation rate of pollutants at molecular level: Intermolecular π-π interactions favor electrons delivery. Journal of Hazardous Materials, 2022, 430, 128386.	12.4	39
3681	Harmonious K–l–O co-modification of g-C ₃ N ₄ for improved charge separation and photocatalysis. Inorganic Chemistry Frontiers, 2022, 9, 950-958.	6.0	8
3682	A simple and highly efficient composite based on g-C ₃ N ₄ for super rapid removal of multiple organic dyes from water under sunlight. Catalysis Science and Technology, 2022, 12, 786-798.	4.1	9
3683	Precisely Tailoring Nitrogen Defects in Carbon Nitride for Efficient Photocatalytic Overall Water Splitting. ACS Applied Materials & Interfaces, 2022, 14, 3970-3979.	8.0	44
3684	Facile regeneration of oxidized porous carbon nitride rods by the de-aromatization of the heptazine network in bulk g-C ₃ N ₄ . Inorganic Chemistry Frontiers, 2022, 9, 1107-1114.	6.0	9
3685	Metalized Carbon Nitrides for Efficient Catalytic Functionalization of CO ₂ . ACS Catalysis, 2022, 12, 1797-1808.	11.2	48

#	Article	IF	CITATIONS
3686	A Comprehensive Review of Graphitic Carbon Nitride (g-C3N4)–Metal Oxide-Based Nanocomposites: Potential for Photocatalysis and Sensing. Nanomaterials, 2022, 12, 294.	4.1	135
3687	Semiconducting Polymers for Oxygen Evolution Reaction under Light Illumination. Chemical Reviews, 2022, 122, 4204-4256.	47.7	180
3688	Zn and N co-doped porous carbon nanosheets for photothermally-driven CO2 cycloaddition. Journal of Catalysis, 2022, 407, 65-76.	6.2	22
3689	Multi-component Ag/AgCl/Bi2O3/BiFeO3 for the sunlight-induced photocatalytic degradation. Journal of Environmental Chemical Engineering, 2022, 10, 107280.	6.7	9
3690	Up-conversion fluorescent carbon quantum dots decorated covalent triazine frameworks as efficient metal-free photocatalyst for hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 8739-8748.	7.1	19
3691	Photocatalytic Selective Oxidation of HMF Coupled with H ₂ Evolution on Flexible Ultrathin g-C ₃ N ₄ Nanosheets with Enhanced N–H Interaction. ACS Catalysis, 2022, 12, 1919-1929.	11.2	82
3692	Visible light-initiated aerobic oxidation of amines to imines over TiO ₂ microspheres with TEMPO ⁺ PF ₆ ^{â^²} . Sustainable Energy and Fuels, 2022, 6, 894-902.	4.9	5
3693	Integration of geospatial technology for mapping of algae: an economical perspective for assessing nanocellulose. , 2022, , 289-310.		0
3694	A brief review of s-triazine graphitic carbon nitride. Carbon Letters, 2022, 32, 703-712.	5.9	15
3695	Constructing a brand-new advanced oxidation process system composed of MgO ₂ nanoparticles and MgNCN/MgO nanocomposites for organic pollutant degradation. Environmental Science: Nano, 2022, 9, 335-348.	4.3	5
3696	Oxidative desulfurization of fuel oil catalyzed by a carbon nitride supported phosphotungstic acid based dicationic ionic liquid. Reaction Chemistry and Engineering, 2022, 7, 1380-1390.	3.7	5
3697	Graphitic carbon nitride for photodegradation of dye Molecules. , 2022, , 97-140.		0
3698	Photocatalytic Reduction of Carbon Dioxide on TiO2 Heterojunction Photocatalysts—A Review. Materials, 2022, 15, 967.	2.9	23
3699	Ti 4 O 7 /g 3 N 4 Nanocomposites as an Excellently Durable and Active Electrocatalyst for Oxygen Reduction Reaction. Advanced Materials Interfaces, 0, , 2101831.	3.7	1
3700	One-Pot Thermal Synthesis of g-C3N4/ZnO Composites for the Degradation of 5-Fluoruracil Cytostatic Drug under UV-LED Irradiation. Nanomaterials, 2022, 12, 340.	4.1	12
3701	Engineering a Carbon-Iodine covalent bond charge transport channel in γ-CuI/Polymeric carbon nitride for solar Light-Driven hydrogen production. FlatChem, 2022, 31, 100330.	5.6	10
3702	Overcoming Electron Transfer Efficiency Bottlenecks for Hydrogen Production in Highly Crystalline Carbon Nitrideâ€Based Materials. Advanced Sustainable Systems, 2022, 6, .	5.3	29
3703	Constructing crystalline needle-mushroom-like/ amorphous nanosheet carbon nitride homojunction by molten salt method for photocatalytic degradation of tetracycline hydrochloride. Journal of Materials Science: Materials in Electronics, 2022, 33, 6043-6058.	2.2	4

#	Article	IF	CITATIONS
3704	Two-dimensional B7P2: Dual-purpose functional material for hydrogen evolution reaction/hydrogen storage. International Journal of Hydrogen Energy, 2022, 47, 8338-8347.	7.1	6
3705	Uracil-mediated supramolecular assembly for C-enriched porous carbon nitrides with enhanced photocatalytic hydrogen evolution. New Journal of Chemistry, 2022, 46, 4647-4653.	2.8	2
3706	Unique BiFeO ₃ /g-C ₃ N ₄ mushroom heterojunction with photocatalytic antibacterial and wound therapeutic activity. Nanoscale, 2022, 14, 2686-2695.	5.6	15
3707	Synthesis of highly efficient selenium oxide hybridized g-C3N4 photocatalyst for NADH/NADPH regeneration to facilitate solar-to-chemical reaction. Main Group Chemistry, 2022, 21, 1077-1089.	0.8	6
3708	Dynamic Interface with Enhanced Visible-Light Absorption and Electron Transfer for Direct Photoreduction of Flue Gas to Syngas. ACS Applied Materials & Interfaces, 2022, 14, 6476-6483.	8.0	9
3709	Unraveling the dual defect sites in graphite carbon nitride for ultra-high photocatalytic H ₂ O ₂ evolution. Energy and Environmental Science, 2022, 15, 830-842.	30.8	308
3711	Solarâ€powered chemistry: Engineering lowâ€dimensional carbon nitrideâ€based nanostructures for selective <scp>CO₂</scp> conversion to <scp>C₁C₂</scp> products. InformaÄnÃ-Materiály, 2022, 4, .	17.3	53
3712	Development and Functionalization of Visible-Light-Driven Water-Splitting Photocatalysts. Nanomaterials, 2022, 12, 344.	4.1	17
3713	Unveiling ultrafast dynamics in bridged bimetallic complexes using optical and X-ray transient absorption spectroscopies. Chemical Science, 2022, 13, 1715-1724.	7.4	14
3714	CaSnO3 coupled g-C3N4 S-scheme heterostructure photocatalyst for efficient pollutant degradation. Diamond and Related Materials, 2022, 124, 108873.	3.9	15
3715	Dual enhancement of carrier generation and migration on Au/g-C ₃ N ₄ photocatalysts for highly-efficient broadband PET-RAFT polymerization. Polymer Chemistry, 2022, 13, 1022-1030.	3.9	9
3716	Membraneless Photocatalytic Fuel Cell with Double Photoelectrodes for Simultaneous Electricity Generation and Pollutant Degradation. Journal of the Electrochemical Society, 2022, 169, 026502.	2.9	5
3717	One-Step, Vacuum-Assisted Construction of Micrometer-Sized Nanoporous Silicon Confined by Uniform Two-Dimensional N-Doped Carbon toward Advanced Li Ion and MXene-Based Li Metal Batteries. ACS Nano, 2022, 16, 4560-4577.	14.6	75
3718	Facile synthesis of g-C3N4/Ag2C2O4 heterojunction composite membrane with efficient visible light photocatalytic activity for water disinfection. Chemosphere, 2022, 295, 133841.	8.2	15
3719	An organometallic approach for the preparation of Au–TiO2 and Au-g-C3N4 nanohybrids: improving the depletion of paracetamol under visible light. Photochemical and Photobiological Sciences, 2022, 21, 337-347.	2.9	12
3720	Optimized design of 3D nitrogen-doped graphene-like carbon derived from g-C3N4 encapsulated nano-Si as high-performance anode for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2022, 907, 116048.	3.8	6
3721	In situ fabrication of Bi2Se3/g-C3N4 S-scheme photocatalyst with improved photocatalytic activity. Chinese Journal of Catalysis, 2022, 43, 370-378.	14.0	37
3722	Investigation of C–ZnO/V2O5 nanocomposite for organic compound decomposition under visible light. Journal of Materials Science: Materials in Electronics, 2022, 33, 9743-9754.	2.2	3

#	Article	IF	CITATIONS
3723	Interfacial chemical bond modulated Bi19S27Br3/g-C3N4 Z-scheme heterojunction for enhanced photocatalytic CO2 conversion. Applied Catalysis B: Environmental, 2022, 307, 121162.	20.2	83
3724	Step-scheme ZnO@ZnS hollow microspheres for improved photocatalytic H2 production performance. Chinese Journal of Catalysis, 2022, 43, 329-338.	14.0	68
3725	Construction of single-atom Ag embedded O, K co-doped g-C3N4 with enhanced photocatalytic efficiency for tetracycline degradation and Escherichia coli disinfection under visible light. Journal of Molecular Liquids, 2022, 352, 118655.	4.9	15
3726	One-step synthesis of supported green catalyst by thermal polymerization and application of model oil desulfurization. Inorganic Chemistry Communication, 2022, 138, 109268.	3.9	2
3727	Charge Trapping in Terminal States in Polymeric Carbon Nitride for Photocatalytic Reduction Reaction. Journal of Physical Chemistry C, 2022, 126, 2430-2436.	3.1	5
3728	Plasmonic Ag nanoparticles decorated g-C3N4 for enhanced visible-light driven photocatalytic degradation and H2 production. , 2022, 1, 1-7.		7
3729	Constructing S-scheme Co3O4-C3N4 catalyst with superior photoelectrocatalytic efficiency for water purification. Applied Materials Today, 2022, 26, 101390.	4.3	8
3730	Phase engineering in graphitic carbon nitride with imidazolium sulfonic acid chloride ionic liquid functionalization for photocatalytic side-chain oxidation of toluene. Applied Catalysis A: General, 2022, 633, 118515.	4.3	6
3731	Nitrogen-doping coupled with cerium oxide loading co-modified graphitic carbon nitride for highly enhanced photocatalytic degradation of tetracycline under visible light. Chemosphere, 2022, 293, 133648.	8.2	16
3732	Precise carbon doping regulation of porous graphitic carbon nitride nanosheets enables elevated photocatalytic oxidation performance towards emerging organic pollutants. Chemical Engineering Journal, 2022, 433, 134551.	12.7	33
3733	In situ forming heterointerface in g-C3N4/BiOBr photocatalyst for enhancing the photocatalytic activity. Journal of Physics and Chemistry of Solids, 2022, 163, 110609.	4.0	13
3734	Naphthyl-modified graphitic carbon nitride: Preparation and application in light-emitting diodes. Journal of Luminescence, 2022, 244, 118734.	3.1	7
3735	Decontamination of ibuprofen micropollutants from water based on visible-light-responsive hybrid photocatalyst. Journal of Environmental Chemical Engineering, 2022, 10, 107154.	6.7	8
3736	Stabilized Li metal anode with robust C-Li3N interphase for high energy density batteries. Energy Storage Materials, 2022, 46, 563-569.	18.0	28

#	Article	IF	CITATIONS
3741	Atmospheric CO2 mediated formation of Ag2O-Ag2CO3/g-C3N4 (p-n/n-n dual heterojunctions) with enhanced photoreduction of hexavalent chromium and nitrophenols. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113800.	3.9	13
3742	Polydopamine/defective ultrathin mesoporous graphitic carbon nitride nanosheets as Z-scheme organic assembly for robust photothermal-photocatalytic performance. Journal of Colloid and Interface Science, 2022, 613, 775-785.	9.4	14
3743	Photocatalytic activities of g-C3N4, Bi3NbO7 and g-C3N4/Bi3NbO7 in photocatalytic reduction of Cr(â¥). Journal of Alloys and Compounds, 2022, 902, 163752.	5.5	32
3744	Graphitic carbon nitride-based nanoplatforms for biosensors: design strategies and applications. Materials Today Chemistry, 2022, 24, 100770.	3.5	20
3745	Hematite decorated functional porous graphitic carbon nitride binary nanohybrid: Mechanistic insight into the formation and arsenic adsorption study. Applied Surface Science, 2022, 583, 152443.	6.1	7
3746	Modulating the oxidative active species by regulating the valence of palladium cocatalyst in photocatalytic degradation of ciprofloxacin. Applied Catalysis B: Environmental, 2022, 306, 121092.	20.2	53
3747	Vacancy-defect semiconductor quantum dots induced an S-scheme charge transfer pathway in 0D/2D structures under visible-light irradiation. Applied Catalysis B: Environmental, 2022, 306, 121109.	20.2	60
3748	Exfoliation-induced O-doped g-C ₃ N ₄ nanosheets with improved photoreactivity towards RhB degradation and H ₂ evolution. Inorganic Chemistry Frontiers, 2022, 9, 1423-1433.	6.0	17
3749	Photoelectrochemical energy storage materials: design principles and functional devices towards direct solar to electrochemical energy storage. Chemical Society Reviews, 2022, 51, 1511-1528.	38.1	113
3750	Chapter 5. 2D Photocatalytic Materials for Environmental Applications. Inorganic Materials Series, 2022, , 217-293.	0.7	0
3751	Opportunities for Ultrathin 2D Catalysts in Promoting CO2 Photoreduction. Inorganic Materials Series, 2022, , 65-149.	0.7	1
3752	Chapter 1. Recent Developments and Perspectives on Solar-driven Fine Chemicals Synthesis: From the Reaction System to 2D Photocatalysts. Inorganic Materials Series, 2022, , 1-64.	0.7	1
3753	2-D Heterometallic Pb-lodoargentate Framework [PbAg216]n with a Diskoid [Pb(18-crown-6)]2+ Linker and Cocatalyst for Synergistically Enhanced Photocatalytic Properties via g-C3N4 Doping. Inorganic Chemistry, 2022, , .	4.0	1
3754	KCl–LiCl molten salt synthesis of LaOCl/CeO2-g-C3N4 with excellent photocatalytic-adsorbed removal performance for organic dye pollutant. Ceramics International, 2022, 48, 15439-15450.	4.8	18
3755	Bandgap engineered g-C3N4 and its graphene composites for stable photoreduction of CO2 to methanol. Carbon, 2022, 192, 101-108.	10.3	42
3756	Piezo-photocatalytic flexible PAN/TiO2 composite nanofibers for environmental remediation. Science of the Total Environment, 2022, 824, 153790.	8.0	22
3757	Enhanced visibleÂlight photocatalytic CO2 reduction over direct Z-scheme heterojunction Cu/P co-doped g-C3N4@TiO2 photocatalyst. Chemical Papers, 2022, 76, 3459-3469.	2.2	7
3758	Photocatalytic degradation and reusable SERS detection by Ag nanoparticles immobilized on g-C3N4/graphene oxide nanosheets. Surface and Coatings Technology, 2022, 435, 128212.	4.8	19

#	Article	IF	CITATIONS
3759	Recent advances and perspectives of g–C3N4–based materials for photocatalytic dyes degradation. Chemosphere, 2022, 295, 133834.	8.2	83
3760	Direct Photoelectric Storage of Solar Energy in Câ€Rich Polymeric Carbon Nitride Cell: Mechanism and Performance Improvement. Advanced Materials Interfaces, 2022, 9, .	3.7	4
3761	Recent Advancement of the Current Aspects of g ₃ N ₄ for its Photocatalytic Applications in Sustainable Energy System. Chemical Record, 2022, 22, e202100310.	5.8	32
3762	<i>ortho</i> -Terphenylene Viologens with Through-Space Conjugation for Enhanced Photocatalytic Oxidative Coupling and Hydrogen Evolution. Journal of the American Chemical Society, 2022, 144, 4422-4430.	13.7	38
3763	In situ-grown ZnO particles on g-C3N4 layers: a direct Z-scheme-driven photocatalyst for the degradation of dye and pharmaceutical pollutants under solar irradiation. Journal of Materials Science: Materials in Electronics, 2022, 33, 9774-9784.	2.2	12
3764	Sb(III)-Impregnated Magnetic Carbon Nitride Nanosheets: Preparation, Characterization, and Evaluation of Its Catalytic Activity for Synthesis of Imidazo-Pyridines. Polycyclic Aromatic Compounds, 2023, 43, 1833-1844.	2.6	1
3765	Enhanced photostability in protonated covalent organic frameworks for singlet oxygen generation. Matter, 2022, 5, 1004-1015.	10.0	24
3766	High-Stability Ti3C2-QDs/ZnIn2S4/Ti(IV) Flower-like Heterojunction for Boosted Photocatalytic Hydrogen Evolution. Nanomaterials, 2022, 12, 542.	4.1	10
3767	Efficient visible light driven degradation of antibiotic pollutants by oxygen-doped graphitic carbon nitride via the homogeneous supramolecular assembly of urea. Environmental Research, 2022, 210, 112920.	7.5	14
3768	Selective synthesis and defects steering superior microwave absorption capabilities of hollow graphitic carbon nitride micro-polyhedrons. Chemical Engineering Journal, 2022, 435, 135086.	12.7	42
3769	Facile synthesis of hierarchical g-C3N4@WS2 composite as Lithium-ion battery anode. Chemical Engineering Journal, 2022, 435, 135129.	12.7	19
3770	A "green―all-organic heterostructure functionalized by self-assembled fullerene small molecule with enhanced photocatalytic activity. Applied Surface Science, 2022, 585, 152738.	6.1	12
3771	Boosting 2eâ^' oxygen reduction reaction in garland carbon nitride with carbon defects for high-efficient photocatalysis-self-Fenton degradation of 2,4-dichlorophenol. Applied Catalysis B: Environmental, 2022, 307, 121185.	20.2	118
3772	Recent Progress in the Synthesis and Applications of Composite Photocatalysts: A Critical Review. Small Methods, 2022, 6, e2101395.	8.6	69
3773	Plasmon-Enhanced Nitrogen Vacancy-Rich Carbon Nitride Electrochemiluminescence Aptasensor for Highly Sensitive Detection of miRNA. Analytical Chemistry, 2022, 94, 1406-1414.	6.5	23
3774	Ag–Au Core–Shell Triangular Nanoprisms for Improving p-g-C3N4 Photocatalytic Hydrogen Production. Nanomaterials, 2021, 11, 3347.	4.1	7
3775	Gas-Phase Fluorination of g-C3N4 for Enhanced Photocatalytic Hydrogen Evolution. Nanomaterials, 2022, 12, 37.	4.1	15
3776	Experimental and Theoretical Identifications of Durable Fe–Nx Configurations Embedded in Graphitic Carbon Nitride for Uranium Photoreduction. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
3777	Extremely Enhanced Photo-Reduction of Chromium(Vi) from Aqueous Solution by Nanosheet Hybrids of Covalent Organic Framework and Graphene-Phase Carbon Nitride. SSRN Electronic Journal, 0, , .	0.4	0
3778	Facile Synthesis of Hierarchical G-C 3 N 4 @Ws 2 ÂCompositeÂAs Lithium-Ion Battery Anode. SSRN Electronic Journal, 0, , .	0.4	0
3779	Inducing Ferromagnetism in Graphitic Carbon Network by S Doping and Observation of Giant Magnetoresistance. SSRN Electronic Journal, 0, , .	0.4	0
3780	Metal Sulfide Nanocomposites for Energy Harvesting Applications. Engineering Materials, 2022, , 567-612.	0.6	1
3781	Mechanistic insights for electrochemical reduction of CO ₂ into hydrocarbon fuels over O-terminated MXenes. Catalysis Science and Technology, 2022, 12, 2223-2231.	4.1	22
3782	In Situ Preparation of Pda Decorated Ag/Black Mesoporous Tio2 Nanocomposites for Photocatalytic Degradation of Tetracycline and Antibacterial. SSRN Electronic Journal, 0, , .	0.4	0
3783	One-Step Calcination Method to Gain Exfoliated G-C3n4/Moo2 Composites for Photocatalytic Hydrogen Evolution Performance Enhancement. SSRN Electronic Journal, 0, , .	0.4	0
3784	Hydrothermal construction of WO ₃ ·0.33H ₂ O/g-C ₃ N ₄ nanocomposites with enhanced adsorption and photocatalytic activity. CrystEngComm, 2022, 24, 3437-3447.	2.6	4
3785	Ferrocene-Modified Uio-66-Nh2 Hybrids with G-C3n4 as Enhanced Photocatalysts for Degradation of Bisphenol a Under Visible Light. SSRN Electronic Journal, 0, , .	0.4	0
3786	Polymer-MoS2-metal oxide composite: An eco-friendly material for wastewater treatment. , 2022, , 165-193.		1
3787	A Self-Assembly Strategy to Synthesize Carbon Doped Carbon Nitride Microtubes with a Large Î-Electron Conjugated System for Efficient H2 Evolution. SSRN Electronic Journal, 0, , .	0.4	0
3788	Rational design of a graphitic carbon nitride catalytic–biocatalytic system as a photocatalytic platform for solar fine chemical production from CO ₂ . Reaction Chemistry and Engineering, 2022, 7, 1566-1572.	3.7	20
3789	Interface engineering of W ₂ C/W ₂ N co-catalyst on g-C ₃ N ₄ nanosheets for boosted H ₂ evolution and 4-nitrophenol removal. Environmental Science: Nano, 2022, 9, 1888-1899.	4.3	17
3790	Fabrication of g-C ₃ N ₄ /Bi ₂ WO ₆ as a direct Z-scheme excellent photocatalyst. New Journal of Chemistry, 2022, 46, 5751-5760.	2.8	10
3791	Functionalized Graphitic Carbon Nitrides for Photocatalytic H ₂ 0 ₂ Production: Desired Properties Leading to Rational Catalyst Design. KONA Powder and Particle Journal, 2023, 40, 124-148.	1.7	2
3792	Allochroic Platinum/Carbon Nitride with Photoactivated Ohmic Contact for Efficient Visible-Light Photocatalytic Hydrogen Evolution. SSRN Electronic Journal, 0, , .	0.4	0
3793	One-Pot Fabrication Cos2 Modified Mos2-G-C3n4 Ternary Heterostructure Composites with Enhanced Photocatalytic Hydrogen Production from Water. SSRN Electronic Journal, 0, , .	0.4	0
3794	Preparation of Ultra-Thin Porous Carbon Nitride and its Photocatalytic H2o2 Production and Photodegradation of Rhb. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
3795	Non-photochromic solar energy storage in carbon nitride surpassing blue radicals for hydrogen production. Journal of Materials Chemistry A, 2022, 10, 7728-7738.	10.3	13
3796	Interfacial band bending induced charge-transfer regulation over Ag@ZIF-8@g-C ₃ N ₄ to boost photocatalytic CO ₂ reduction into syngas. Catalysis Science and Technology, 2022, 12, 3343-3355.	4.1	7
3797	<i>In situ</i> growth of crystalline carbon nitride on LaOCl for photocatalytic overall water splitting. Journal of Materials Chemistry A, 2022, 10, 8252-8257.	10.3	23
3798	Construction of Novel Metal-Free Graphene Oxide/Graphitic Carbon Nitride Nanohybrids on Carbon Cloth and Efficient Degradation of Rhb Under Visible Light Irradiation. SSRN Electronic Journal, 0, , .	0.4	Ο
3799	Solar-driven aromatic aldehydes: green production from mandelic acid derivatives by a Co(<scp>ii</scp>)/C ₃ N ₄ combined catalyst in aqueous media. RSC Advances, 2022, 12, 5245-5254.	3.6	3
3800	Unveiling the charge transfer behavior within ZSM-5 and carbon nitride composites for enhanced photocatalytic degradation of methylene blue. RSC Advances, 2022, 12, 5665-5676.	3.6	13
3801	Photocatalysis by Graphitic Carbon Nitride Modified with 0D, 1D, and 2D Carbon-Based Nanomaterials. Environmental Science: Nano, 0, , .	4.3	3
3802	Insight into the Key Role of Cr Intermediates in the Efficient and Simultaneous Degradation of Organic Contaminants and Cr(VI) Reduction via g-C ₃ N ₄ -Assisted Photocatalysis. Environmental Science & Technology, 2022, 56, 3552-3563.	10.0	48
3803	Optimizing the Gas–Solid Photocatalytic Reactions for Air Purification. ACS ES&T Engineering, 2022, 2, 1103-1115.	7.6	18
3804	Greener Oneâ€step Synthesis of Novel In Situ Seleniumâ€doped Framework Photocatalyst by Melem and Perylene Dianhydride for Enhanced Solar Fuel Production from CO ₂ . Photochemistry and Photobiology, 2022, 98, 998-1007.	2.5	2
3805	Developing high photocatalytic antibacterial Zn electrodeposited coatings through Schottky junction with Fe3+-doped alkalized g-C3N4 photocatalysts. Nano Materials Science, 2023, 5, 177-188.	8.8	8
3806	Crystalline C ₃ N ₄ /CeO ₂ composites as photocatalyst for hydrogen production in visible light. IOP Conference Series: Earth and Environmental Science, 2022, 997, 012018.	0.3	0
3807	Templating synthesis of porous carbons for energy-related applications: A review. New Carbon Materials, 2022, 37, 25-45.	6.1	25
3808	Radical and (photo)electron transfer induced mechanisms for lignin photo-Âand electro-catalytic depolymerization. Green Energy and Environment, 2023, 8, 383-405.	8.7	24
3809	Recent development in electronic structure tuning of graphitic carbon nitride for highly efficient photocatalysis. Journal of Semiconductors, 2022, 43, 021701.	3.7	24
3810	Graphitic Carbon Nitride Nanoflakes Decorated on Multielement-Doped Carbon as Photocatalysts for Bacterial Disinfection under Visible and Near-Infrared Light. ACS Applied Nano Materials, 2022, 5, 3422-3433.	5.0	13
3811	One-Dimensional Core–Shell Cd _{0.85} Zn _{0.15} S@Cd _{0.85} Zn _{0.15} MoO ₄ Binary Solid Solution Composite: In Situ Construction and Photocatalytic H ₂ Evolution Performance, Journal of Physical Chemistry C, 2022, 126, 3881-3890.	3.1	3
3812	Which Is More Efficient in Promoting the Photocatalytic H ₂ Evolution Performance of g-C ₃ N ₄ : Monometallic Nanocrystal, Heterostructural Nanocrystal, or Bimetallic Nanocrystal?. Inorganic Chemistry, 2022, 61, 4760-4768.	4.0	2

#	Article	IF	CITATIONS
3813	On Rational Curve Fitting between Topological Indices and Entropy Measures for Graphite Carbon Nitride. Polycyclic Aromatic Compounds, 2023, 43, 2553-2570.	2.6	8
3814	Construction of α-Fe ₂ O ₃ /Sulfur-Doped Polyimide Direct Z-Scheme Photocatalyst with Enhanced Solar Light Photocatalytic Activity. ACS Omega, 2022, 7, 11371-11381.	3.5	8
3815	Enhanced the Synergistic Effect of Tetracycline Adsorption and Photocatalytic Degradation on a Mesoporous Carbon Nitride. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1567-1581.	3.7	0
3816	Ion-Induced Synthesis of Crystalline Carbon Nitride Ultrathin Nanosheets from Mesoporous Melon for Efficient Photocatalytic Hydrogen Evolution with Synchronous Highly Selective Oxidation of Benzyl Alcohol. ACS Applied Materials & Interfaces, 2022, 14, 13419-13430.	8.0	20
3817	Shining light on <scp>ZnIn₂S₄</scp> photocatalysts: Promotional effects of surface and heterostructure engineering toward artificial photosynthesis. EcoMat, 2022, 4, .	11.9	45
3818	State of the art advancement in rational design of g-C3N4 photocatalyst for efficient solar fuel transformation, environmental decontamination and future perspectives. International Journal of Hydrogen Energy, 2022, 47, 10837-10867.	7.1	51
3819	Heterogeneous Photocatalytic Activation of Persulfate for the Removal of Organic Contaminants in Water: A Critical Review. ACS ES&T Engineering, 2022, 2, 527-546.	7.6	101
3820	Incorporating Boron into Niobic Acid Nanosheets Enables Generation of Multiple Reactive Oxygen Species for Superior Antibacterial Action. Small, 2022, 18, e2107333.	10.0	12
3821	Three Isomeric Zn(II)–Sn(IV)–Zn(II) Porphyrin-Triad-Based Supramolecular Nanoarchitectures for the Morphology-Dependent Photocatalytic Degradation of Methyl Orange. ACS Omega, 2022, 7, 9775-9784.	3.5	16
3822	Ligandâ€Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. ChemPhysChem, 2022, 23, e202200060.	2.1	2
3823	Charge carrier nonadiabatic dynamics in non-metal doped graphitic carbon nitride. Journal of Chemical Physics, 2022, 156, 094702.	3.0	22
3824	Effect of D/A Ratio on Photocatalytic Hydrogen Evolution Performance of Conjugated Polymer Photocatalysts. ACS Applied Energy Materials, 2022, 5, 4631-4640.	5.1	18
3825	Thermal expansion-quench of nickel metal-organic framework into nanosheets for efficient visible light CO2 reduction. Chinese Chemical Letters, 2023, 34, 107335.	9.0	6
3826	2D materials and heterostructures for photocatalytic water-splitting: a theoretical perspective. Journal Physics D: Applied Physics, 2022, 55, 293002.	2.8	74
3827	Constructing atomic Co1–N4 sites in 2D polymeric carbon nitride for boosting photocatalytic hydrogen harvesting under visible light. International Journal of Hydrogen Energy, 2022, 47, 12592-12604.	7.1	8
3828	Multi anion-based materials: Synthesis and catalytic applications. Materials Research Bulletin, 2022, 152, 111836.	5.2	16
3829	Visible-light driven efficient elimination of organic hazardous and Cr (VI) over BiOCl modified by Chinese Baijiu distillers' grain-based biochar. Journal of Industrial and Engineering Chemistry, 2022, 107, 472-482.	5.8	7
3830	Cuprum/Carbon Co-doped Carbon Nitride with Adjustable Light Absorption and Carrier Separation for Synergistically Enhanced Photocatalytic Wastewater Purification. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 2260-2268.	3.7	2

#	Article	IF	CITATIONS
3831	Nitrogen-rich carbon nitrogen polymers for enhancing the sorption of uranyl. Chinese Chemical Letters, 2022, 33, 3468-3473.	9.0	21
3832	Mn3O4-g-C3N4 composite to activate peroxymonosulfate for organic pollutants degradation: Electron transfer and structure-dependence Journal of Hazardous Materials, 2022, 434, 128818. Giant Narrow-Band Optical Absorption and Distinctive Excitonic Structures of Monolayer <mmi:math< td=""><td>12.4</td><td>28</td></mmi:math<>	12.4	28
3833	<pre>xmins:mmi= http://www.ws.org/1998/Math/Math/Math/Math/Math/Math/Math/Math</pre>	> &18 ml:m	ro w > <mml:r< td=""></mml:r<>
3834	xmins:mml= http://www.w3.org/1998/Math/Math/Math/Math/Math/Math/Math/Math	16.2	22
3835	Synergy between Palladium Single Atoms and Nanoparticles via Hydrogen Spillover for Enhancing CO ₂ Photoreduction to CH ₄ . Advanced Materials, 2022, 34, e2200057.	21.0	162
3836	Photothermal Catalytic Water Splitting at Diverse Two-Phase Interfaces Based on Cu–TiO ₂ . ACS Applied Energy Materials, 2022, 5, 4564-4576.	5.1	12
3837	Role of the Bromide on the Hydrodebenzylation of 2,4,6,8,10,12â€Hexabenzylâ€2,4,6,8,10,12â€hexaazaisowurtzitane (HBIW). ChemistrySelect, 2022, 7, .	1.5	4
3838	Synthesis and performance of a composite photocatalyst based on polyester-supported carbon nitride nanosheets for selective oxidation of anisyl alcohol. Surfaces and Interfaces, 2022, 30, 101938.	3.0	0
3839	Study of Non-Noble-Metal-Based Metal–Nitrogen–Carbon Catalysts for Formic Acid Dehydrogenation. ACS Sustainable Chemistry and Engineering, 2022, 10, 4599-4609.	6.7	9
3840	S-scheme heterojunction BP/WO3 with tight interface firstly prepared in magnetic stirring reactor for enhanced photocatalytic degradation of hazardous contaminants under visible light. Separation and Purification Technology, 2022, 292, 120986.	7.9	10
3841	An specific photoelectrochemical sensor based on pillar[5]arenes functionalized gold nanoparticles and bismuth oxybromide nanoflowers for bovine hemoglobin recognition. Journal of Colloid and Interface Science, 2022, 620, 187-198.	9.4	14
3842	Two-dimensional layered carbon-based catalytic ozonation for water purification: Rational design of catalysts and an in-depth understanding of the interfacial reaction mechanism. Science of the Total Environment, 2022, 832, 155071.	8.0	12
3843	Rapid Self-Decomposition of g-C ₃ N ₄ During Gas–Solid Photocatalytic CO ₂ Reduction and Its Effects on Performance Assessment. ACS Catalysis, 2022, 12, 4560-4570.	11.2	86
3844	AQ-coupled few-layered g-C3N4 nanoplates obtained by one-step mechanochemical treatment for efficient visible-light photocatalytic H2O2 production. International Journal of Hydrogen Energy, 2022, 47, 16005-16013.	7.1	9
3845	Photoactive nanomaterials enabled integrated photo-rechargeable batteries. Nanophotonics, 2022, 11, 1443-1484.	6.0	9
3846	Cobalt-doped g-C3N4/MOF heterojunction composite with tunable band structures for photocatalysis aerobic oxidation of benzyl alcohol. Polyhedron, 2022, 216, 115728.	2.2	9
3847	The role of the g-C3N4 precursor on the P doping using HCCP as a source of phosphorus. Journal of Materials Research and Technology, 2022, 18, 3319-3335.	5.8	7
3848	Water Oxidation and Hydrogen Evolution with Organic Photooxidants: A Theoretical Perspective. Journal of Physical Chemistry B, 2022, 126, 2777-2788.	2.6	2

#	Article	IF	CITATIONS
3849	Green fabrication of citrus pectin-Ag@AgCl/g-C3N4 nanocomposites with enhanced photocatalytic activity for the degradation of new coccine. Food Chemistry, 2022, 387, 132928.	8.2	11
3850	Liquid-solid phase separation-generated multifunctional light-weight modification layer of g-C3N4/carbon endowing 5ÂV cathode material graphite flakes with high capacity and cyclicability simultaneously. Journal of Alloys and Compounds, 2022, 911, 164871.	5.5	1
3851	Rapid high-temperature hydrothermal post treatment on graphitic carbon nitride for enhanced photocatalytic H2 evolution. Catalysis Today, 2023, 409, 94-102.	4.4	54
3852	Application of graphite carbon nitride in the field of biomedicine: Latest progress and challenges. Materials Chemistry and Physics, 2022, 281, 125925.	4.0	4
3853	Synergistic interaction of Nb atoms anchored on g-C3N4 and H+ promoting high-efficiency nitrogen reduction reaction. Chinese Journal of Catalysis, 2022, 43, 1139-1147.	14.0	14
3854	Simultaneous and Efficient Removal of Oleophilic and Hydrophilic Stains from Polyurethane by the Combination of Easy-Cleaning and Self-Cleaning. ACS Applied Materials & Interfaces, 2022, 14, 16641-16648.	8.0	7
3855	Solvent Etching Process for Graphitic Carbon Nitride Photocatalysts Containing Platinum Cocatalyst: Effects of Water Hydrolysis on Photocatalytic Properties and Hydrogen Evolution Behaviors. Nanomaterials, 2022, 12, 1188.	4.1	5
3856	A review on visible light driven spinel ferrite-g-C3N4 photocatalytic systems with enhanced solar light utilization. Journal of Molecular Liquids, 2022, 357, 119105.	4.9	51
3857	MoC Quantum Dots@Nâ€Dopedâ€Carbon for Lowâ€Cost and Efficient Hydrogen Evolution Reaction: From Electrocatalysis to Photocatalysis. Advanced Functional Materials, 2022, 32, .	14.9	51
3858	Intricate behaviors of gas phase CO2 photoreduction in high vacuum using Cu2O-loaded TiO2 nanotube arrays. Journal of CO2 Utilization, 2022, 59, 101964.	6.8	8
3859	Degradative removal of Sulfamethoxazole through visible light driven peroxymonosulfate activation by direct Z-scheme MIL-53(Co/Fe)/MoS2 heterojunction composite: Role of dual redox mechanism and efficient charge separation. Chemical Engineering Research and Design, 2022, 161, 723-738.	5.6	13
3860	Facile construction of Z-scheme g-C3N4/BiVO4 heterojunctions for boosting visible-light photocatalytic activity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 279, 115676.	3.5	13
3861	Few-layer carbon nitride photocatalysts for solar fuels and chemicals: Current status and prospects. Chinese Journal of Catalysis, 2022, 43, 1216-1229.	14.0	7
3862	Construction of 2D Zn-MOF/BiVO4 S-scheme heterojunction for efficient photocatalytic CO2 conversion under visible light irradiation. Chinese Journal of Catalysis, 2022, 43, 1331-1340.	14.0	55
3863	Direct microwave heating synthesis and characterization of highly efficient g-C3N4 photocatalyst. Inorganic Chemistry Communication, 2022, 139, 109386.	3.9	2
3864	MXenes and other 2D nanosheets for modification of polyamide thin film nanocomposite membranes for desalination. Separation and Purification Technology, 2022, 289, 120777.	7.9	31
3865	A review of metal-organic frameworks/graphitic carbon nitride composites for solar-driven green H2 production, CO2 reduction, and water purification. Journal of Environmental Chemical Engineering, 2022, 10, 107548.	6.7	59
3866	Synergetic adsorption and photocatalysis performance of g-C3N4/Ce-doped MgAl-LDH in degradation of organic dye under LED visible light. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 643, 128738.	4.7	24

#	Article	IF	CITATIONS
3867	In-situ synthesis of highly graphitized and Fe/N enriched carbon tubes as catalytic mediums for promoting multi-step conversion of lithium polysulfides. Carbon, 2022, 192, 418-428.	10.3	28
3868	Layer structured materials for ambient nitrogen fixation. Coordination Chemistry Reviews, 2022, 460, 214468.	18.8	28
3869	Investigating the role of ultrasound in improving the photocatalytic ability of CQD decorated boron-doped g-C3N4 for tetracycline degradation and first-principles study of nitrogen-vacancy formation. Carbon, 2022, 192, 405-417.	10.3	68
3870	First-principles study for electrochemical sensing of neurotoxin hydrazine derivatives via h-g-C3N4 quantum dot. Surfaces and Interfaces, 2022, 30, 101913.	3.0	12
3871	A review on Z/S – scheme heterojunction for photocatalytic applications based on metal halide perovskite materials. Applied Surface Science Advances, 2022, 9, 100241.	6.8	40
3872	A supramolecule-based shape-controllable preparation of carbon nitride nanotubes for the visible light driven photodegradation. Surfaces and Interfaces, 2022, 30, 101894.	3.0	3
3873	Metal-free carboxyl modified g-C3N4 for enhancing photocatalytic degradation activity of organic pollutants through peroxymonosulfate activation in wastewater under solar radiation. Journal of Solid State Chemistry, 2022, 310, 123053.	2.9	7
3874	Carbon dots with different energy levels regulate the activity of metal-free catalyst for hydrogen peroxide photoproduction. Journal of Colloid and Interface Science, 2022, 616, 769-780.	9.4	18
3875	Degradation of diclofenac in a photosensitization-like photocatalysis process using palladium quantum dots deposited graphite carbon nitride under solar light. Journal of Environmental Chemical Engineering, 2022, 10, 107545.	6.7	3
3876	A simple and sensitive approach to monitor the spectrum change during the electrochemiluminescence process and reveal the mutual promotion between g-C3N4 and co-reactant of S2O82 Sensors and Actuators B: Chemical, 2022, 360, 131679.	7.8	12
3877	One-pot synthesis of S-scheme WO3/BiOBr heterojunction nanoflowers enriched with oxygen vacancies for enhanced tetracycline photodegradation. Separation and Purification Technology, 2022, 290, 120897.	7.9	29
3878	Morphology-dependent photocatalysis of graphitic carbon nitride for sustainable remediation of aqueous pollutants: A mini review. Journal of Environmental Chemical Engineering, 2022, 10, 107438.	6.7	13
3879	High-performance photocatalytic membranes for water purification in relation to environmental and operational parameters. Journal of Environmental Management, 2022, 311, 114817.	7.8	18
3880	Phosphorus and sulfur codoped carbon nitride nanosheets with enhanced photocatalytic antibacterial activity and promotion of wound healing. Applied Surface Science, 2022, 586, 152761.	6.1	15
3881	Upgraded charge transport in g-C3N4 nanosheets by boron doping and their heterojunction with 3D Cdln2S4 for efficient photodegradation of azo dye. Materials Today Chemistry, 2022, 24, 100857.	3.5	8
3882	Electroanalytical investigation of quantum-dot based deposition of metal chalcogenides on g-C3N4 for improved photochemical performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 645, 128905.	4.7	6
3883	Interface engineering of organic-inorganic heterojunctions with enhanced charge transfer. Applied Catalysis B: Environmental, 2022, 309, 121261.	20.2	21
3884	Type-II CdS/PtSSe heterostructures used as highly efficient water-splitting photocatalysts. Applied Surface Science, 2022, 589, 152931.	6.1	59

#	Article	IF	CITATIONS
3885	Onion-liked carbon-embedded graphitic carbon nitride for enhanced photocatalytic hydrogen evolution and dye degradation. Applied Catalysis B: Environmental, 2022, 308, 121216.	20.2	67
3886	The activation of bridged N atoms based on the structure engineering of PCN to boosts the release of visible-light photocatalytic hydrogen. Chemical Engineering Journal, 2022, 439, 135708.	12.7	12
3887	Retarding Li dendrites growth via introducing porous g-C3N4 into polymer electrolytes for solid-state lithium metal batteries. Journal of Alloys and Compounds, 2022, 909, 164825.	5.5	15
3888	Construction of magnetically separable dual Z-scheme g-C3N4/α-Fe2O3/Bi3TaO7 photocatalyst for effective degradation of ciprofloxacin under visible light. Chemical Engineering Journal, 2022, 440, 135840.	12.7	38
3889	Organic dyes with multi-branched structures for highly efficient photocatalytic hydrogen evolution under visible-light irradiation. Applied Catalysis B: Environmental, 2022, 309, 121257.	20.2	11
3890	Single-organic component g-C3.6N4 achieves superior photoactivity antibacterial. Chemical Engineering Journal, 2022, 440, 135873.	12.7	8
3891	Carbon nitride-based Z-scheme heterojunctions for solar-driven advanced oxidation processes. Journal of Hazardous Materials, 2022, 434, 128866.	12.4	36
3892	Hollow polymeric ionic liquid spheres with hierarchical electron distribution: A novel composite of g-C3N4 for visible light photocatalytic water splitting enhancement. Chemical Engineering Journal, 2022, 440, 135625.	12.7	20
3893	Solar light-responsive α-Fe2O3/CdS/g-C3N4 ternary photocatalyst for photocatalytic hydrogen production and photodegradation of methylene blue. Journal of Alloys and Compounds, 2022, 908, 164584.	5.5	44
3894	Cobalt-intercalated one-dimensional nanocrystals of urea perylene imide polymer for enhanced visible-light photocatalytic water oxidation. Applied Catalysis B: Environmental, 2022, 309, 121293.	20.2	12
3895	A facile preparation of highly dispersed ultrasmall CeO2 clusters on g-C3N4 decorated TiO2 for efficient photooxidation of Hg0. Applied Surface Science, 2022, 589, 153048.	6.1	11
3896	Construction of Z-scheme Cs3PMo12O40/g-C3N4 composite photocatalyst with highly efficient photocatalytic performance under visible light irradiation. Journal of Solid State Chemistry, 2022, 311, 123069.	2.9	13
3897	Aluminum anchored on g-C3N4 as robust catalysts for Mannich reaction at ambient temperature. Journal of Molecular Structure, 2022, 1259, 132731.	3.6	6
3898	Air- and water-stable halide perovskite nanocrystals protected with nearly-monolayer carbon nitride for CO2 photoreduction and water splitting. Applied Surface Science, 2022, 592, 153276.	6.1	31
3899	Highly fluorescent carbon nitride oligomer with aggregation-induced emission characteristic for plastic staining. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 276, 121238.	3.9	4
3900	Au surface plasmon resonance promoted charge transfer in Z-scheme system enables exceptional photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2022, 310, 121322.	20.2	37
3901	Intermediate-induced repolymerization for constructing self-assembly architecture: Red crystalline carbon nitride nanosheets for notable hydrogen evolution. Applied Catalysis B: Environmental, 2022, 310, 121323.	20.2	15
3902	Electrochemiluminescence bioassays based on carbon nitride nanomaterials and 2D transition metal carbides. Current Opinion in Electrochemistry, 2022, 34, 100981.	4.8	9
#	Article	IF	CITATIONS
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3903	Facile construction of g-C3N4/ZnIn2S4 nanocomposites for enhance Cr(VI) photocatalytic reduction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 276, 121184.	3.9	9
3904	The rational design of a graphitic carbon nitride-based dual S-scheme heterojunction with energy storage ability as a day/night photocatalyst for formic acid dehydrogenation. Chemical Engineering Journal, 2022, 441, 136047.	12.7	27
3905	Enhanced Visible-Light-Driven H ₂ Evolution Activity of g-C ₃ N ₄ Photocatalysts <i>via</i> Calix[4]arene Dye Hybridization. ACS Applied Energy Materials, 2021, 4, 14415-14424.	5.1	4
3906	Design of porous organic polymer catalysts for transformation of carbon dioxide. Green Chemical Engineering, 2022, 3, 96-110.	6.3	29
3907	Graphitic Carbon Nitrideâ€Based Photocatalysts for Biological Applications. Advanced Sustainable Systems, 2022, 6, .	5.3	7
3908	Boron Carbon Oxynitride as a Novel Metal-Free Photocatalyst. Nanoscale Research Letters, 2021, 16, 176.	5.7	10
3909	Colorâ€ŧunable and bright nonconjugated fluorescent polymer dots and fast photodegradation of dyes under visible light. Aggregate, 2022, 3, .	9.9	5
3910	Synthesis of Sulfonyl Chlorides from Aryldiazonium Salts Mediated by a Heterogeneous Potassium Poly(heptazine imide) Photocatalyst. ACS Organic & Inorganic Au, 2022, 2, 153-158.	4.0	2
3911	Surface Physicochemistry Modification and Structural Nanoarchitectures of gâ€C ₃ N ₄ for Wastewater Remediation and Solar Fuel Generation. Advanced Materials Technologies, 2022, 7, .	5.8	19
3912	Long-Term Exposure and Effects of rGO–nZVI Nanohybrids and Their Parent Nanomaterials on Wastewater-Nitrifying Microbial Communities. Environmental Science & Technology, 2022, 56, 512-524.	10.0	9
3913	Internal Chemiluminescence Light-Driven Photocatalysis. ACS Applied Materials & Interfaces, 2021, 13, 60471-60477.	8.0	10
3914	From 1D to 3D Graphitic Carbon Nitride (Melon): A Bottom-Up Route via Crystalline Microporous Templates. Inorganic Chemistry, 2021, 60, 18957-18963.	4.0	4
3915	Red Phosphorus: An Up-and-Coming Photocatalyst on the Horizon for Sustainable Energy Development and Environmental Remediation. Chemical Reviews, 2022, 122, 3879-3965.	47.7	58
3916	Review of Graphitic Carbon Nitride and Its Composite Catalysts for Selective Reduction of CO ₂ . ACS Applied Nano Materials, 2021, 4, 12845-12890.	5.0	37
3917	Tailorâ€Engineered 2D Cocatalysts: Harnessing Electron–Hole Redox Center of 2D gâ€C ₃ N ₄ Photocatalysts toward Solarâ€toâ€Chemical Conversion and Environmental Purification. Advanced Functional Materials, 2022, 32, .	14.9	93
3918	Recent development of organic–inorganic hybrid photocatalysts for biomass conversion into hydrogen production. Nanoscale Advances, 2022, 4, 2561-2582.	4.6	24
3919	Visible-light-driven sustainable conversion of carbon dioxide to methanol using a metal-free covalent organic framework as a recyclable photocatalyst. Catalysis Science and Technology, 2022, 12, 3484-3497.	4.1	13
3920	A 2D/1D heterojunction nanocomposite built from polymeric carbon nitride and MIL-88A(Fe) derived α-Fe ₂ O ₃ for enhanced photocatalytic degradation of rhodamine B. New Journal of Chemistry, 0, , .	2.8	2

#	Article	IF	CITATIONS
3921	Insight into the role of reduced graphene oxide in enhancing photocatalytic hydrogen evolution in disordered carbon nitride. Physical Chemistry Chemical Physics, 2022, 24, 11213-11221.	2.8	9
3922	Uncovering the multifaceted roles of nitrogen defects in graphitic carbon nitride for selective photocatalytic carbon dioxide reduction: a density functional theory study. Physical Chemistry Chemical Physics, 2022, 24, 11124-11130.	2.8	4
3923	Copper loaded nitrogen-rich mesoporous carbon nitride as a highly efficient photocatalyst for selective oxidative cleavage of C(sp ³)–C(sp ³) bonds at room temperature under visible light. Journal of Materials Chemistry A, 2022, 10, 11268-11276.	10.3	4
3924	Nickel metal–organic frameworks for visible-light CO ₂ reduction under mild reaction conditions. Dalton Transactions, 2022, 51, 7950-7956.	3.3	4
3925	Regulating the bandgap of graphitic carbon nitride via Mn doping for boosting visible-light-driven water reduction. Journal Physics D: Applied Physics, 2022, 55, 284002.	2.8	1
3926	All-solid Z-scheme Bi/γ-Bi2O3/O-doped g-C3N4 heterojunction with Bi as electron shuttle for visible-light photocatalysis. Journal of Alloys and Compounds, 2022, 911, 164980.	5.5	18
3927	The Preparation of g-C3N4/CoAl-LDH Nanocomposites and Their Depollution Performances in Cement Mortars under UV-Visible Light. Catalysts, 2022, 12, 443.	3.5	11
3928	Recent advances in wide solar spectrum active W ₁₈ O ₄₉ -based photocatalysts for energy and environmental applications. Catalysis Reviews - Science and Engineering, 2023, 65, 1521-1566.	12.9	18
3929	Construction of chlorine doped graphitic carbon nitride nanodisc for enhanced photocatalytic activity and mechanism insight. International Journal of Hydrogen Energy, 2022, 47, 16887-16899.	7.1	4
3930	Piezocatalytic and Photocatalytic Hydrogen Peroxide Evolution of Sulfide Solid Solution Nanoâ€Branches from Pure Water and Air. Small, 2022, 18, e2200914.	10.0	37
3931	Electron Donor–Acceptor Interface of TPPS/PDI Boosting Charge Transfer for Efficient Photocatalytic Hydrogen Evolution. Advanced Science, 2022, 9, e2201134.	11.2	62
3932	Photo-induced catalytic removal of rhodamine-B by aligned silicon nanowires developed through metal assisted chemical etching. Materials Characterization, 2022, , 111906.	4.4	4
3933	Effect of Band Bending in Photoactive MOF-Based Heterojunctions. ACS Applied Materials & Interfaces, 2022, 14, 19342-19352.	8.0	17
3934	Light as a Tool in Organic Photocatalysis: Multiâ€Photon Excitation and Chromoselective Reactions. European Journal of Organic Chemistry, 2022, 2022, .	2.4	15
3935	High-efficiency and selective capture of nitric oxide by fluorine-modified carbon nitride: A DFT investigation. Applied Surface Science, 2022, 593, 153353.	6.1	6
3936	Supramolecule self-assembly approach to direct Z-scheme TiO2/g-C3N4 heterojunctions for efficient photocatalytic degradation of emerging phenolic pollutants. Applied Surface Science, 2022, 593, 153401.	6.1	24
3937	Single-atom iron catalysts for biomedical applications. Progress in Materials Science, 2022, 128, 100959.	32.8	17
3938	Photocatalytic elimination of moxifloxacin by two-dimensional graphitic carbon nitride nanosheets: Enhanced activity, degradation mechanism and potential practical application. Separation and Purification Technology, 2022, 292, 121067.	7.9	37

#	Article	IF	CITATIONS
3939	Efficient degradation of organic pollutants by enhanced interfacial internal electric field induced via various crystallinity carbon nitride homojunction. Applied Catalysis B: Environmental, 2022, 312, 121388.	20.2	45
3944	Noble metal–free doped graphitic carbon nitride (g-C3N4) for efficient photodegradation of antibiotics: progress, limitations, and future directions. Environmental Science and Pollution Research, 2023, 30, 25546-25558.	5.3	15
3945	Gold@Carbon Nitride Yolk and Core–Shell Nanohybrids. ACS Applied Materials & Interfaces, 2022, 14, 21340-21347.	8.0	6
3946	Photocatalytic hydrogen evolution based on carbon nitride and organic semiconductors. Nanotechnology, 2022, 33, 322001.	2.6	7
3947	Supramolecular Self-Assembly Coupled with Alkali Metal Molten Salts to Construct Nv-Carbon Nitride for Efficient Photocatalytic H2o2 Production. SSRN Electronic Journal, 0, , .	0.4	0
3948	A multifunctional nanoprobe for real-time SERS monitoring of invasion ability affected by photodynamic therapy. Chemical Communications, 2022, 58, 6542-6545.	4.1	3
3949	Degradation of Multiple Pharmaceuticals at Low Concentrations Via Cu-Doped-Graphitic Carbon Nitride (G-C3n4) Under Simulated Solar Irradiation at a Wide Ph Range. SSRN Electronic Journal, 0, , .	0.4	0
3950	Experimental and Theoretical Identifications of Durable Fe–Nx Configurations Embedded in Graphitic Carbon Nitride for Uranium Photoreduction. SSRN Electronic Journal, 0, , .	0.4	0
3951	Highly Chlorine-Oxidation and Fouling Resistant Thin Film Nanocomposite Membrane Enhanced by Few-Layered Graphitic Carbon Nitride Nanosheets. SSRN Electronic Journal, 0, , .	0.4	0
3952	Preparation of C/Ho co-doped TiO ₂ for enhancing the photocatalytic degradation efficiency of tetracycline hydrochloride. New Journal of Chemistry, 2022, 46, 10191-10200.	2.8	2
3953	Enhanced Photo-Reduction of Chromium(Vi) from Aqueous Solution by Nanosheet Hybrids of Covalent Organic Framework and Graphene-Phase Carbon Nitride. SSRN Electronic Journal, 0, , .	0.4	0
3954	Recent Progress of Cellulose-Based Hydrogel Photocatalysts and Their Applications. Gels, 2022, 8, 270.	4.5	16
3955	Molecular simulation of methane on various g-C3N4 isomers: collision, adsorption, desorption, and diffusion studies. Journal of the Iranian Chemical Society, 2022, 19, 3649-3657.	2.2	4
3956	Photocatalytic Conversion of Plastic Waste: From Photodegradation to Photosynthesis. Advanced Energy Materials, 2022, 12, .	19.5	64
3957	A Minireview on the Use of g-C3N4–Chitosan Biocomposite for Potential Applications. Frontiers in Materials, 2022, 9, .	2.4	2
3958	ZnIn ₂ S ₄ â€Based Nanostructures in Artificial Photosynthesis: Insights into Photocatalytic Reduction toward Sustainable Energy Production. Small Structures, 2022, 3, .	12.0	30
3959	Interfacial engineering of carbon-based materials for efficient electrocatalysis: Recent advances and future. EnergyChem, 2022, 4, 100074.	19.1	20
3960	Ab Initio Electronic Structure Study of the Photoinduced Reduction of Carbon Dioxide with the Heptazinyl Radical. Journal of Physical Chemistry A, 2022, 126, 2778-2787.	2.5	2

ARTICLE IF CITATIONS Unlocking Selective Pathways for Glucose Photoreforming by Modulating Reaction Conditions. ACS 3961 6.7 9 Sustainable Chemistry and Éngineering, 2022, 10, 5867-5874. Facile synthesis of rod-like TiO2-based composite loaded with g-C3N4 for efficient removal of high-chroma organic pollutants based on adsorption-photocatalysis mechanism. Inorganic Chemistry Communication, 2022, 141, 109517. Ultrathin triphenylamine–perylene diimide polymer with D–A structure for photocatalytic oxidation 3963 11.9 10 of <i>N</i>å€heterocycles using ambient air. EcoMat, 2022, 4, . ZnCo2O4/g-C3N4/Cu nanocomposite as a new efficient and recyclable heterogeneous photocatalyst with enhanced photocatalytic activity towards the metronidazole degradation under the solar light 3964 irradiation. Environmental Science and Pollution Research, 2022, 29, 65043-65060. Promoting intramolecular charge transfer of graphitic carbon nitride by donor–acceptor 3965 92 modulation for visibleâ€light photocatalytic H₂ evolution. , 2022, 1, 294-308. Boosting the Photocatalytic H₂ Evolution and Benzylamine Oxidation using 2<i>D</i>/1D g-C₃N₄/TiO₂ Nanoheterojunction. ACS Applied Materials & amp; 3966 8.0 Interfaces, 2022, 14, 22122-22137. Impact of graphene oxide on visible light photocatalytic performance of graphene oxide/graphitic 3967 carbon nitride three-dimensional structure composites. Environmental Technology (United Kingdom), 2.2 0 2022, , 1-14. Facile Oneâ€Pot Synthesis and Enhanced Photocatalytic Performances of Ternary Metal Sulfide Composite gâ€C<śub>3</sub>N₄/Cu<śub>3</sub>SnS₄. European Journal of 3968 2.0 Inorganic Chemistry, 2022, 2022, . 3969 Electronic defects in metal oxide photocatalysts. Nature Reviews Materials, 2022, 7, 503-521. 48.7 129 Graphitic Carbon Nitride Decorated with Iron Oxide Nanoparticles as a Novel High-Performance Biomimetic Electrochemical Sensing Platform for Paracetamol Detection. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 3170-3180. Enhancement of the Efficiency of g-C₃N₄ for Hydrogen Evolution by 3971 7 5.1Bifunctionality of RuSe₂. ACS Applied Energy Materials, 2022, 5, 6080-6090. Ferrocene-modified Uio-66-NH2 hybrids with g-C3N4 as enhanced photocatalysts for degradation of 12.4 bisphenol A under visible light. Journal of Hazardous Materials, 2022, 436, 129052. Z-scheme P-doped-g-C3N4/Fe2P/red-P ternary composite enables efficient two-electron photocatalytic 3973 4.4 9 pure water splitting. Catalysis Today, 2023, 409, 119-127. Elementâ€Doped Mxenes: Mechanism, Synthesis, and Applications. Small, 2022, 18, e2201740. 3974 10.0 Highly Selective Photocatalytic CO₂ Methanation with Water Vapor on Singleâ€Atom 3975 13.8 60 Platinumâ€Decorated Defective Carbon Nitride. Angewandte Chemie - International Edition, 2022, 61, . Functional Carbon Nitride Materials in Photoâ€Fentonâ€Like Catalysis for Environmental Remediation. 14.9 93 Advanced Functional Materials, 2022, 32, . Chiral {Ni₆PW₉} Clusterâ€"Organic Framework: Synthesis, Structure, and 3977 4.0 9 Properties. Inorganic Chemistry, 2022, 61, 7477-7483. Developing a facile graphitic carbon nitride (g-C3N4)-coated stainless steel mesh with different 3978 superhydrophilic/underwater superoleophobic and superoleophilic behavior for oil–water 5.3 separation. Environmental Science and Pollution Research, 2022, 29, 66888-66901.

#	Article	IF	CITATIONS
3979	Highly Selective Photocatalytic CO ₂ Methanation with Water Vapor on Singleâ€Atom Platinumâ€Decorated Defective Carbon Nitride. Angewandte Chemie, 2022, 134, .	2.0	18
3980	Rational design of carbon nitride for remarkable photocatalytic H2O2 production. Chem Catalysis, 2022, 2, 1720-1733.	6.1	31
3981	Photocatalytic Dinitrogen Fixation with Water on High-Phosphorus-Doped Carbon Nitride with Surface Nitrogen Vacancies. Langmuir, 2022, 38, 7137-7145.	3.5	5
3982	Strain Engineering of 2D-C ₃ N ₅ Monolayer and Its Application in Overall Water-Splitting: a Hybrid Density Functional Study. Journal of Physical Chemistry C, 2022, 126, 8436-8449.	3.1	5
3983	One-pot preparation of biocompatible folate-functionalized graphitic carbon nitride quantum dots for targeted bioimaging. Chemical Engineering Journal, 2022, , 136932.	12.7	9
3984	Cu/PCN Metal-Semiconductor Heterojunction by Thermal Reduction for Photoreaction of CO ₂ -Aerated H ₂ O to CH ₃ OH and C ₂ H ₅ OH. ACS Omega, 2022, 7, 16817-16826.	3.5	3
3985	Facile synthesis of Z-scheme KBiO3/g-C3N4 Z-scheme heterojunction photocatalysts: Structure, performance, and mechanism. Journal of Environmental Chemical Engineering, 2022, 10, 107804.	6.7	10
3986	Visible-light active metal nanoparticles@carbon nitride for enhanced removal of water organic pollutants. Journal of Environmental Chemical Engineering, 2022, 10, 107780.	6.7	8
3987	Synthesis of porous pinecone-like structure via facile carbon quantum dots modulation: A promising approach for improving the photocatalytic capability of carbon nitride. Journal of Environmental Chemical Engineering, 2022, 10, 107757.	6.7	9
3988	Potential-resolved wavelength tunable electrochemiluminescence from graphitic carbon nitride heterostructure. Electrochimica Acta, 2022, 420, 140433.	5.2	6
3989	g-C3N4 nanosheets functionalized yttrium-doped ZrO2 nanoparticles for efficient photocatalytic Cr(VI) reduction and energy storage applications. Journal of Environmental Management, 2022, 315, 115120.	7.8	11
3990	The combination of highly efficient resonance energy transfer in one nanocomposite and ferrocene-quenching for ultrasensitive electrochemiluminescence bioanalysis. Biosensors and Bioelectronics, 2022, 210, 114347.	10.1	9
3991	Se substituted 2D-gC3N4 modified disposable screen-printed carbon electrode substrate: A bifunctional nano-catalyst for electrochemical and absorption study of hazardous fungicide. Chemosphere, 2022, 302, 134765.	8.2	9
3992	Enhanced photo-reduction of chromium(VI) from aqueous solution by nanosheet hybrids of covalent organic framework and graphene-phase carbon nitride. Separation and Purification Technology, 2022, 294, 121204.	7.9	13
3993	Self-assembled sulphur doped carbon nitride for photocatalytic water reforming of methanol. Chemical Engineering Journal, 2022, 445, 136790.	12.7	23
3994	Accelerated organic pollutants mineralization in interlayer confined single Pt atom photocatalyst for hydrogen recovery. Chemical Engineering Journal, 2022, 444, 136561.	12.7	11
3995	Recent advances and application of carbon nitride framework materials in sample preparation. TrAC - Trends in Analytical Chemistry, 2022, 153, 116661.	11.4	7
3996	Carbendazim imprinted electrochemical sensor based on CdMoO4/g-C3N4 nanocomposite: Application to fruit juice samples. Chemosphere, 2022, 301, 134766.	8.2	49

#	Article	IF	CITATIONS
3997	Scope and prospect of transition metal-based cocatalysts for visible light-driven photocatalytic hydrogen evolution with graphitic carbon nitride. Coordination Chemistry Reviews, 2022, 465, 214516.	18.8	34
3998	Which kind of nitrogen chemical states doped carbon dots loaded by g-C3N4 is the best for photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2022, 622, 662-674.	9.4	43
3999	Triton X-100-directed synthesis of carbon nitride and nitrogen-doped carbon for ethylene dichloride dehydrochlorination. Carbon, 2022, 196, 110-119.	10.3	8
4000	Electrochemical sensing of heptazine graphitic C3N4 quantum dot for chemical warfare agents; a quantum chemical approach. Materials Science in Semiconductor Processing, 2022, 148, 106753.	4.0	18
4001	Template-based textural modifications of polymeric graphitic carbon nitrides towards waste water treatment. Chemosphere, 2022, 302, 134792.	8.2	13
4002	An overview of nanomaterial-based novel disinfection technologies for harmful microorganisms: Mechanism, synthesis, devices and application. Science of the Total Environment, 2022, 837, 155720.	8.0	24
4003	Anchoring CuO nanospindles on g-C3N4 nanosheets for photocatalytic pollutant degradation and CO2 reduction. Journal of Alloys and Compounds, 2022, 914, 165339.	5.5	22
4004	Constructing novel graphitic carbon nitride-based nanocomposites - From the perspective of material dimensions and interfacial characteristics. Chemosphere, 2022, 302, 134889.	8.2	8
4005	Electrostatic self-assembled layered polymers form supramolecular heterojunction catalyst for photocatalytic reduction of high-stability nitrate in water. Journal of Colloid and Interface Science, 2022, 622, 828-839.	9.4	7
4006	Preparation of Cu modified g-C3N4 nanorod bundles for efficiently photocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2022, 622, 336-346.	9.4	24
4007	Co-assembly strategy for organic/inorganic heterojunctions with intimate interfaces and effective charges separation. Applied Surface Science, 2022, 596, 153589.	6.1	1
4008	NiO _{<i>x</i>} –FeO _{<i>x</i>} Nanoclusters Anchored on g-C ₃ N ₄ Sheets for Selective Seawater Oxidation with High Corrosion Resistance. ACS Sustainable Chemistry and Engineering, 2022, 10, 6622-6632.	6.7	22
4009	Co-doping g-C3N4 with P and Mo for efficient photocatalytic tetracycline degradation under visible light. Ceramics International, 2022, 48, 24677-24686.	4.8	13
4010	Polymeric carbon nitride-based materials: Rising stars in bioimaging. Biosensors and Bioelectronics, 2022, 211, 114370.	10.1	7
4011	Antibacterial activity of a nonmetal Z-scheme heterojunction photocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 431, 114019.	3.9	3
4012	Functional graphitic carbon (IV) nitride: A versatile sensing material. Coordination Chemistry Reviews, 2022, 466, 214611.	18.8	22
4013	Construction of dual Z-scheme Bi2WO6/g-C3N4/black phosphorus quantum dots composites for effective bisphenol A degradation. Journal of Environmental Sciences, 2023, 124, 617-629.	6.1	33
4014	<i>En route</i> to artificial photosynthesis: the role of polyoxometalate based photocatalysts. Journal of Materials Chemistry A, 2022, 10, 13152-13169.	10.3	12

#	Article	IF	CITATIONS
4015	Estimation of the Integral Toxicity of Photocatalysts Based on Graphitic Carbon Nitride in a Luminescent Test. Kinetics and Catalysis, 2022, 63, 166-171.	1.0	0
4016	Atomically Thin Bi ₂ O ₂ (OH) _{1+<i>x</i>} (NO ₃) _{1–<i>x</i>} Nanosheets with Regulated Surface Composition for Enhanced Photocatalytic CO ₂ Reduction, ACS Applied Nano Materials. 2022. 5. 7019-7028.	5.0	9
4017	Ferroelectric nanostructured oxides for solar fuel generation. Materials Science and Technology, 2022, 38, 1332-1347.	1.6	1
4018	A Lightâ€Dark Cascade Procedure for the Regeneration of NADH using Graphitic Carbon Nitride Nanosheets. ChemPhotoChem, 0, , .	3.0	1
4019	Room Temperature Engineering Crystal Facet of Cu2O for Photocatalytic Degradation of Methyl Orange. Nanomaterials, 2022, 12, 1697.	4.1	9
4020	Using transition metal-based deep eutectic solvents to synthesize transition metal-doped carbon nitrides for photo-Fenton degradation of organic dyes and antibiotics. Applied Surface Science, 2022, 597, 153718.	6.1	21
4021	Sodium alkoxide-mediated g-C ₃ N ₄ immobilized on a composite nanofibrous membrane for preferable photocatalytic activity. RSC Advances, 2022, 12, 15378-15384.	3.6	6
4023	Nanocarbon-based metal-free catalysts. , 2022, , 1-19.		0
4024	Carbon-based metal-free catalysts for photocatalytic reactions. , 2022, , 151-194.		1
4025	Integration of g-C3N4 into cellulose/graphene oxide foams for efficient photocatalytic Cr(VI) reduction. Journal of Physics and Chemistry of Solids, 2022, 169, 110813.	4.0	5
4026	Recent progress in g–C3N4–Based materials for remarkable photocatalytic sustainable energy. International Journal of Hydrogen Energy, 2022, 47, 21067-21118.	7.1	35
4027	Ultraviolet phosphorescent carbon nanodots. Light: Science and Applications, 2022, 11, .	16.6	33
4028	Synthesis and characterisation of TiO ₂ /g-C ₃ N ₄ as photocatalyst for photodegradation of dyes, phenol and caffeine. Advances in Materials and Processing Technologies, 2022, 8, 4395-4415.	1.4	4
4029	Formic acid assisted fabrication of Oxygen-doped Rod-like carbon nitride with improved photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 624, 338-347.	9.4	11
4030	Ni/g ₃ N ₄ Photocatalysis: Aerobic Oxidative Coupling Reaction Leading to Amidation of Aldehydes with Amines and Câ^'N, Câ^'O, and Câ^'C Cross oupling Reaction. European Journal of Organic Chemistry, 2022, 2022, .	2.4	3
4031	Enhancement of N2 adsorption by Z-scheme porous g-C3N4/ZnFe2O4 composite material for high-efficient photocatalytic nitrogen fixation. Journal of Porous Materials, 2022, 29, 1431-1440.	2.6	8
4032	Photoelectrochemical nitrogen reduction: A step toward achieving sustainable ammonia synthesis. Chinese Journal of Catalysis, 2022, 43, 1761-1773.	14.0	7
4033	Exfoliation of graphitic carbon nitride and homogeneous loading of Cu2O catalyst. Solid State Sciences, 2022, 129, 106915.	3.2	4

#	Article	IF	Citations
4034	Effects of coexistence of Mo and Zn vacancies with different valence states and interstitial H on the magneto-optical properties of ZnO: First-principles calculations. Chemical Physics, 2022, 560, 111589.	1.9	1
4035	Construction of dual transfer channels in graphitic carbon nitride photocatalyst for high-efficiency environmental pollution remediation: Enhanced exciton dissociation and carrier migration. Journal of Hazardous Materials, 2022, 436, 129171.	12.4	13
4036	Coordinative integration of amorphous nickel-imidazole framework with graphitic carbon nitride for enhanced photocatalytic hydrogen production. Applied Materials Today, 2022, 28, 101524.	4.3	9
4037	Prospects of non-noble metal single atoms embedded in two-dimensional (2D) carbon and non-carbon-based structures in electrocatalytic applications. Coordination Chemistry Reviews, 2022, 467, 214613.	18.8	13
4038	Synthesis of Heteropolyacid (HPA) Functionalized Graphitic Carbon Nitride as Effective Catalysts for Converting Polysaccharides into High-Value Chemicals. SSRN Electronic Journal, 0, , .	0.4	0
4039	Design of Few-Layer Carbon Nitride/Bifeo3 Composites for Efficient Organic Pollutant Photodegradation. SSRN Electronic Journal, 0, , .	0.4	0
4040	Photochemical Synthesis of Bimetallic Cunisx Quantum Dots Onto G-C3n4 as Cocatalyst for High Hydrogen Evolution. SSRN Electronic Journal, 0, , .	0.4	0
4041	High-performance potassium poly(heptazine imide) films for photoelectrochemical water splitting. Chemical Science, 2022, 13, 7541-7551.	7.4	24
4043	Light-induced electron transfer/phase migration of a redox mediator for photocatalytic C–C coupling in a biphasic solution. Dalton Transactions, 0, , .	3.3	1
4044	Novel 0D-1D-2D nanostructured MCN/NCDs recyclable composite for boosted peroxymonosulfate activation under visible light toward tetracycline degradation. Separation and Purification Technology, 2022, 296, 121328.	7.9	8
4045	Synergistic Promotion of Single-Atom Co Surrounding a PtCo Alloy Based On a g-C ₃ N ₄ Nanosheet for Overall Water Splitting. ACS Catalysis, 2022, 12, 6958-6967.	11.2	59
4046	Fabrication of CdS/C ₃ N ₅ photocatalyst for enhanced H ₂ production. Composite Interfaces, 2023, 30, 147-161.	2.3	5
4048	Facile synthesis of cadmium-doped graphite carbon nitride for photocatalytic degradation of tetracycline under visible light irradiation. Environmental Science and Pollution Research, 2022, 29, 74062-74080.	5.3	6
4049	Porous and Few-Layer Carbon Nitride Nanosheets via Surface Steam Etching for Enhanced Photodegradation Activity. ACS Applied Nano Materials, 2022, 5, 7798-7810.	5.0	9
4050	Influence of Different Nitrogen-Enriched Precursors on the Structure and Properties of g-C3N4. Russian Journal of Physical Chemistry A, 2022, 96, 1112-1123.	0.6	1
4051	Observation of room temperature metal free ferromagnetism in sulfur doped graphitic carbon nitride. Journal of Magnetism and Magnetic Materials, 2022, 559, 169439.	2.3	2
4052	Singleâ€Metal Atoms and Ultra‧mall Clusters Manipulating Charge Carrier Migration in Polymeric Perylene Diimide for Efficient Photocatalytic Oxygen Production. Advanced Energy Materials, 2022, 12,	19.5	40
4053	Raman Spectroscopy of Janus MoSSe Monolayer Polymorph Modifications Using Density Functional Theory. Materials, 2022, 15, 3988.	2.9	6

#	Article	IF	CITATIONS
4054	Non-oxidative Propane Dehydrogenation over Vanadium Doped Graphitic Carbon Nitride Catalysts. Catalysis Letters, 2023, 153, 1120-1129.	2.6	5
4055	Formamidinium Halide Perovskite and Carbon Nitride Thin Films Enhance Photoreactivity under Visible Light Excitation. Journal of Physical Chemistry A, O, , .	2.5	0
4056	Constructing Defect-Mediated CdS/g-C3N4 by an In-situ interlocking strategy for Cocatalyst-free photocatalytic H2 production. Applied Surface Science, 2022, 599, 153875.	6.1	17
4057	Global prevalence and visible light mediated photodegradation of pharmaceuticals and personal care products (PPCPs)-a review. Results in Engineering, 2022, 14, 100469.	5.1	17
4058	TiO2 nanorods doped with g-C3N4 – Polyethylene composite coating for self-cleaning applications. Materials Chemistry and Physics, 2022, 288, 126356.	4.0	6
4059	Coordination Chemistry Engineered Polymeric Carbon Nitride Photoanode with Ultralow Onset Potential for Water Splitting. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
4060	Coordination Chemistry Engineered Polymeric Carbon Nitride Photoanode with Ultralow Onset Potential for Water Splitting. Angewandte Chemie, 0, , .	2.0	2
4061	Tuning electronic structure via CoS clusters for visual photocatalytic H2 production and mechanism insight. Chemical Engineering Journal, 2022, 446, 137399.	12.7	12
4062	Covalent Triazine Frameworks Embedded with Ir Complexes for Enhanced Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2022, 5, 7473-7478.	5.1	10
4063	Singleâ€Atom Catalysts for Hydrogen Generation: Rational Design, Recent Advances, and Perspectives. Advanced Energy Materials, 2022, 12, .	19.5	42
4064	Supported Ru Single Atoms and Clusters on Pâ€Doped Carbon Nitride as an Efficient Photocatalyst for H ₂ O ₂ Production. ChemCatChem, 2022, 14, .	3.7	11
4065	Environmental application of chlorine-doped graphitic carbon nitride: Continuous solar-driven photocatalytic production of hydrogen peroxide. Journal of Hazardous Materials, 2022, 436, 129251.	12.4	8
4066	Precise regulation of Ultra-thin platinum decorated Gold/Graphite carbon nitride photocatalysts by atomic layer deposition for efficient degradation of Rhodamine B under simulated sunlight. Arabian Journal of Chemistry, 2022, 15, 103951.	4.9	7
4067	Resolve deep-rooted challenges of halide perovskite for sustainable energy development and environmental remediation. Nano Energy, 2022, 99, 107401.	16.0	14
4068	Bioinspired construction of g-C3N4 isotype heterojunction on carbonized poly(tannic acid) nanorod surface with multistep electron transfer path. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 431, 114045.	3.9	3
4069	Preparation of ultra-thin porous carbon nitride and its photocatalytic H2O2 production and photodegradation of RhB. Applied Surface Science, 2022, 598, 153866.	6.1	8
4070	Revealing the charge transfer mechanism in magnetically recyclable ternary g-C3N4/BiOBr/Fe3O4 nanocomposite for efficient photocatalytic degradation of tetracycline antibiotics. Chemosphere, 2022, 303, 135070.	8.2	37
4071	Graphitic carbon nitride-based photocatalysts in the applications of environmental catalysis. Journal of Environmental Sciences, 2023, 124, 570-590.	6.1	34

#	Article	IF	CITATIONS
4072	Rapid synthesis of zeolites through g-C ₃ N ₄ -based photocatalysis. Green Chemistry, 2022, 24, 5792-5799.	9.0	2
4073	Recent advances in visible-light graphitic carbon nitride (g-C ₃ N ₄) photocatalysts for chemical transformations. RSC Advances, 2022, 12, 18245-18265.	3.6	37
4074	<i>Ab initio</i> trajectory surface-hopping dynamics studies of excited-state proton-coupled electron transfer reactions in trianisoleheptazine–phenol complexes. Physical Chemistry Chemical Physics, 2022, 24, 15925-15936.	2.8	3
4075	Heterogeneous In/Mo cooperative bandgap engineering for promoting visible-light-driven CO ₂ photoreduction. Journal of Materials Chemistry A, 2022, 10, 13393-13401.	10.3	8
4076	Porphyrins and phthalocyanines as biomimetic tools for photocatalytic H ₂ production and CO ₂ reduction. Chemical Society Reviews, 2022, 51, 6965-7045.	38.1	116
4077	Stitching Electron Localized Heptazine Units with "Carbon Patches―to Regulate Exciton Dissociation Behavior of Carbon Nitride for Photocatalytic Elimination of Petroleum Hydrocarbons. SSRN Electronic Journal, 0, , .	0.4	0
4078	Chapter 8. Nanocatalysis With Sustainability. RSC Nanoscience and Nanotechnology, 2022, , 220-254.	0.2	1
4079	Unraveling the Effects of P and S Doping Over G-C3n4 in Strengthening Lewis Basicity for Co2/Glycerol Conversion: A Theoretical and Experimental Study. SSRN Electronic Journal, 0, , .	0.4	0
4080	Charge Carrier Management in Semiconductors: Modeling Charge Transport and Recombination. Springer Handbooks, 2022, , 365-398.	0.6	2
4081	Hematite nanoparticles decorated nitrogen-doped reduced graphene oxide/graphitic carbon nitride multifunctional heterostructure photocatalyst towards environmental applications. New Journal of Chemistry, 2022, 46, 13100-13116.	2.8	5
4082	One-step construction of Y, C, and O tridoped g-C ₃ N ₄ as a bifunctional photocatalyst for H ₂ evolution and organic pollutant degradation under visible light irradiation. Sustainable Energy and Fuels, 2022, 6, 3858-3871.	4.9	9
4083	Recent development in solarâ€driven photocatalytic hydrogen production utilizing <scp> gâ€C ₃ N ₄ </scp> . International Journal of Energy Research, 2022, 46, 14587-14608.	4.5	5
4084	Borate particulate photocatalysts for photocatalytic applications: A review. International Journal of Hydrogen Energy, 2022, 47, 25608-25630.	7.1	68
4085	Mesoscale Mechanism of Pâ€dopant Defects and Interface Synergy for Phenols Degradation. Chemistry - an Asian Journal, 2022, 17, .	3.3	1
4086	Carbon Nitride with Rationally Designed Ï€â€Conjugated Structure for Bright Blueâ€Violet Lightâ€Emitting Diodes. Small, 2022, 18, .	10.0	3
4087	Tunable Nitrogen Defects on Graphitic Carbon Nitride toward the Visible-Light-Induced Reversible-Deactivation Radical Polymerization. Macromolecules, 2022, 55, 5314-5325.	4.8	5
4088	Developing functional carbon nitride materials for efficient peroxymonosulfate activation: From interface catalysis to irradiation synergy. , 2022, 1, 21-33.		1
4089	A review on synthesis, modification method, and challenges of light-driven H2 evolution using g-C3N4-based photocatalyst. Advances in Colloid and Interface Science, 2022, 307, 102722.	14.7	22

#	Article	IF	CITATIONS
4090	Solar light induced photocatalytic degradation of sulfamethoxazole by ZnWO4/CNNs nanocomposites. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 432, 114108.	3.9	6
4091	BiOCl Flower Photocatalyst Heterostructured with Magnetic Carbon Nanodots Bi25FeO40–g-C3N4 for Visible-Light-Driven Efficient Photodegradation of Tetracycline Hydrochloride. Russian Journal of Physical Chemistry A, 2022, 96, 1340-1347.	0.6	1
4092	Better Choice for a Polyimide Photocatalyst: Planar or Stereo Crosslinked Structures?. Industrial & Engineering Chemistry Research, 2022, 61, 8752-8762.	3.7	6
4093	Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications. Chemical Reviews, 2022, 122, 12748-12863.	47.7	35
4094	Developing epoxy-based anti-corrosion functional nanocomposite coating with CaFe-Tolyl-triazole layered double hydroxide@g-C3N4 as nanofillers on Q235 steel substrate against NaCl corrosive environment. Chemical Engineering Journal, 2022, 450, 137624.	12.7	41
4095	Exploring the Role of Carbon-Based Nanomaterials in Microalgae for the Sustainable Production of Bioactive Compounds and Beyond. ACS Omega, 2022, 7, 22061-22072.	3.5	5
4096	Investigation of the activity of palladium nanoparticles supported on mesoporous graphitic carbon nitride in Heck and Suzuki cross-coupling reactions. Synthetic Communications, 2022, 52, 1290-1305.	2.1	6
4097	Two-Dimensional Photocatalysts for Energy and Environmental Applications. Solar, 2022, 2, 305-320.	1.8	1
4098	Functionalization of Nanomaterials: Synthesis and Characterization. ACS Symposium Series, 0, , 1-26.	0.5	4
4099	Review: Graphite Phase Carbon Nitride Photo-Fenton Catalyst and its Photocatalytic Degradation Performance for Organic Wastewater. Catalysis Surveys From Asia, 2022, 26, 294-310.	2.6	4
4100	Creation of direct Z-scheme Al/Ga co-doping biphasic ZnO/g-C3N4 heterojunction for the sunlight-driven photocatalytic degradations of methylene blue. Journal of Sol-Gel Science and Technology, 2022, 103, 876-889.	2.4	4
4101	Tailoring the particle sizes of Pt5Ce alloy nanoparticles for the oxygen reduction reaction. , 2022, 1, 100025.		2
4102	Composite of g-C3N4/ZnIn2S4 for efficient adsorption and visible light photocatalytic reduction of Cr(VI). Environmental Science and Pollution Research, 2022, 29, 76404-76416.	5.3	7
4103	Bio-inspired nanostructured g-C3N4-based photocatalysts: A comprehensive review. Chinese Journal of Catalysis, 2022, 43, 2141-2172.	14.0	23
4104	(Oxy)nitride heterojunction-strengthened separation of photogenerated carriers in g-C3N4 towards enhanced photocatalytic H2 evolution. Applied Catalysis A: General, 2022, 643, 118746.	4.3	13
4105	Direct Z-scheme photochemical hybrid systems: Loading porphyrin-based metal-organic cages on graphitic-C3N4 to dramatically enhance photocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2022, 43, 2249-2258.	14.0	16
4106	Electrostatic self-assembled PTh/Ag/protonated g-C3N4 nanocomposite with remarkable photocatalytic degradation for organic pollutants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129438.	4.7	4
4107	Boron and nitrogen co-doped porous carbon nanospheres for oxidative dehydrogenation of ethane to ethylene. Carbon, 2022, 197, 120-128.	10.3	7

#	Article	IF	CITATIONS
4108	Construction of novel metal-free graphene oxide/graphitic carbon nitride nanohybrids on carbon cloth and efficient degradation of RhB under visible light irradiation. Applied Surface Science, 2022, 599, 154019.	6.1	8
4109	Fundamentals and application of single-atom photocatalyst in sustainable energy and environmental applications. Renewable and Sustainable Energy Reviews, 2022, 167, 112693.	16.4	17
4110	Cu–Ni core–shell bimetallic cocatalyst decorated polymeric carbon nitride for highly efficient and selective methane production from photocatalytic CO2 reduction. Applied Surface Science, 2022, 599, 153973.	6.1	14
4111	Ag/polydopamine nanoparticles co-decorated defective mesoporous carbon nitride nanosheets assemblies for wide spectrum response and robust photothermal-photocatalytic performance. Applied Surface Science, 2022, 598, 153895.	6.1	5
4112	Synthesis of heteropolyacid (HPA) functionalized graphitic carbon nitride as effective catalysts for converting polysaccharides into high-value chemicals. Resources, Conservation and Recycling, 2022, 185, 106473.	10.8	2
4113	Single platinum atoms anchored on holy carbon nitride for efficient photodegradation of sulfonylurea herbicide. Chemical Engineering Journal, 2022, 446, 137426.	12.7	11
4114	Ti3C2Tx/g-C3N4 heterostructure films with outstanding capacitance for flexible Solid-state supercapacitors. Applied Surface Science, 2022, 599, 154015.	6.1	13
4115	A novel 2-dimensional nanocomposite as a mediator for the determination of doxorubicin in biological samples. Environmental Research, 2022, 213, 113590.	7.5	5
4116	Melem-derived poly(heptazine imide) for effective charge transport and photocatalytic reforming of cellulose into H2 and biochemicals under visible light. Applied Catalysis B: Environmental, 2022, 316, 121601.	20.2	16
4117	A self-assembly strategy to synthesize carbon doped carbon nitride microtubes with a large π-electron conjugated system for efficient H2 evolution. Chemical Engineering Journal, 2022, 447, 137436.	12.7	24
4118	Highly efficient Ag2O/Na-g-C3N4 heterojunction for photocatalytic desulfurization of thiophene in fuel under ambient air conditions. Applied Catalysis B: Environmental, 2022, 316, 121614.	20.2	46
4119	Enhanced adsorption and catalytic degradation of antibiotics by porous 0D/3D Co3O4/g-C3N4 activated peroxymonosulfate: An experimental and mechanistic study. Journal of Colloid and Interface Science, 2022, 625, 466-478.	9.4	37
4120	Iron-nickel alloy nanoparticles encapsulated in nitrogen-doped carbon nanotubes as efficient bifunctional electrocatalyst for rechargeable zinc-air batteries. Journal of Colloid and Interface Science, 2022, 625, 278-288.	9.4	5
4121	Visible-light driven of heterostructured LaFeO3/TiO2 photocatalysts for degradation of antibiotics: Ciprofloxacin as case study. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 432, 114078.	3.9	15
4122	Carbon nitride photocatalysts for water treatment and purification. , 2022, , 137-174.		0
4123	Potassium-Doped Carbon Nitride: Highly Efficient Photoredox Catalyst for Selective Oxygen Reduction and Arylboronic Acid Hydroxylation. SSRN Electronic Journal, 0, , .	0.4	0
4124	Tailoring the fusion effect of phase-engineered 1T/2H-MoS ₂ towards photocatalytic hydrogen evolution. New Journal of Chemistry, 2022, 46, 14922-14932.	2.8	7
4125	Facile Synthesis of Fe-Based Metal-Organic-Framework Mil88-A (Fe) Impregnated with Hybrid Ag3po4-Gcn Composite for the Effective Degradation of Diclofenac. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
4126	A nano-structured nickel trithiocarbonate complex supported on g-C ₃ N ₄ as an efficient electrocatalyst for urea electro-oxidation. Materials Advances, 2022, 3, 6831-6841.	5.4	6
4127	Photochemical synthesis of bimetallic CuNiS _{<i>x</i>} quantum dots onto g-C ₃ N ₄ as a cocatalyst for high hydrogen evolution. New Journal of Chemistry, 2022, 46, 15095-15101.	2.8	4
4128	Fast Charge Separation and Transfer Strategy in Polymeric Carbon Nitride for Efficient Photocatalytic H2 Evolution: Coupling Surface Schottky Junctions and Interlayer Charge Transfer Channels. SSRN Electronic Journal, 0, , .	0.4	0
4129	Artificial photosynthesis systems for solar energy conversion and storage: platforms and their realities. Chemical Society Reviews, 2022, 51, 6704-6737.	38.1	52
4130	Uv-Visible Light Sensitized Nitrogen Doped Nico2o4@G-C3n4 Heterojunction - Based Nanocomposites as Novel Photocatalysts for Enhanced Hydrogen Generation and Electrochemical Activity. SSRN Electronic Journal, 0, , .	0.4	0
4131	Simple preparation of Ag-BTC-modified Co ₃ Mo ₇ O ₂₄ mesoporous material for capacitance and H ₂ O ₂ -sensing performances. CrystEngComm, 2022, 24, 5614-5621.	2.6	8
4132	Molecularly Imprinted Voltammetric Sensor Sensibilized by Nitrogen-Vacancy Graphitized Carbon Nitride and Ag-Cnts. SSRN Electronic Journal, 0, , .	0.4	0
4133	Exploring smart graphitic carbon nitride material toward flexible energy storage supercapacitors. , 2022, , 21-37.		0
4134	Ex_G-C3n4 as a Novel Fluorescent Probe for Sensitive Detecting Clo- in Water Samples with Portable Test Strip. SSRN Electronic Journal, 0, , .	0.4	0
4135	Graphitic carbon nitride-based composites for photocatalytic abatement of emerging pollutants. , 2022, , 175-214.		1
4136	In-Situ Construction of Efficient Z-Scheme Silver Phosphotungstate/Polyimide Visible-Light Photocatalysts with Enhanced Photocatalytic Degradation of Aflatoxin B1. SSRN Electronic Journal, 0, , .	0.4	0
4137	Boosting bifunctional oxygen electrocatalysis of graphitic C ₃ N ₄ using non-covalently functionalized non-oxidized graphene aerogels as catalyst supports. Journal of Materials Chemistry A, 2022, 10, 15689-15697.	10.3	7
4138	Selectively constructing sandwich-like heterostructure of CdS/PbTiO3/TiO2 to improve visible-light photocatalytic H2 evolution. Science China Materials, 2022, 65, 3428-3434.	6.3	8
4139	Interface Effects in Triazineâ€Based gâ€C ₃ N ₄ /MAPbI ₃ Van der Waals Heterojunctions: A Firstâ€Principles Study. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	3
4140	Silver-Nanoparticle-Decorated g-C ₃ N ₄ /MIL-53(Fe) Nanocomposites: A Pre-Eminent Visible-Light-Driven Photocatalyst toward Multimodal Photocatalytic Applications. Industrial & Engineering Chemistry Research, 2022, 61, 9703-9716.	3.7	14
4141	Tuning Acceptor Length in Photocatalytic <scp>Donorâ€Acceptor</scp> Conjugated Polymers for Efficient <scp>Solarâ€toâ€Hydrogen</scp> Energy Conversion. Chinese Journal of Chemistry, 2022, 40, 2457-2467.	4.9	9
4142	Unraveling the Mechanism on Ultrahigh Efficiency Photocatalytic H ₂ O ₂ Generation for Dualâ€Heteroatom Incorporated Polymeric Carbon Nitride. Advanced Functional Materials, 2022, 32, .	14.9	100
4143	Surface Coating of NCM-811 Cathode Materials with g-C ₃ N ₄ for Enhanced Electrochemical Performance. ACS Omega, 2022, 7, 24851-24857.	3.5	10

#	Article	IF	CITATIONS
4144	Visible-Light Induced Recyclable g-C3N4 Catalyzed C-H Hydroxylation of Quinoxalin-2(1H)-ones. Synthesis, 0, , .	2.3	1
4145	2D/2D Interface Engineering Promotes Charge Separation of Mo ₂ C/g-C ₃ N ₄ Nanojunction Photocatalysts for Efficient Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2022, 14, 31782-31791.	8.0	30
4146	Recent Progress on Photoelectrochemical Water Splitting of Graphitic Carbon Nitride (gâ^'CN) Electrodes. Nanomaterials, 2022, 12, 2374.	4.1	2
4147	Underlying Mechanisms of Reductive Amination on Pd-Catalysts: The Unique Role of Hydroxyl Group in Generating Sterically Hindered Amine. International Journal of Molecular Sciences, 2022, 23, 7621.	4.1	4
4148	Ferric oxide nanoclusters with low-spin FeIII anchored g-C3N4 rod for boosting photocatalytic activity and degradation of diclofenac in water under solar light. Applied Catalysis B: Environmental, 2022, 317, 121725.	20.2	35
4149	Loading of gâ€C ₃ N ₄ on Coreâ€6hell Magnetic Mesoporous Silica Nanospheres as a Solid Base Catalyst for the Green Synthesis of some Chromene Derivatives under Different Conditions. ChemistryOpen, 2022, 11, .	1.9	5
4150	The rational design of gCN/a-WOx/Pt heterostructured nanophotocatalysts for boosting the hydrogen generation from the hydrolysis of ammonia borane under visible light. International Journal of Hydrogen Energy, 2022, , .	7.1	3
4151	Metal-free boron doped g-C3N5 catalyst: Efficient doping regulatory strategy for photocatalytic water splitting. Applied Surface Science, 2022, 601, 154186.	6.1	9
4152	DFT-Assisted Design of D–A Conjugated Polymers for Photocatalytic Reduction of Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2022, 10, 9460-9468.	6.7	8
4153	Supramolecular self-assembly coupled with alkali metal molten salts to construct Nv-carbon nitride for efficient photocatalytic H2O2 production. Applied Catalysis A: General, 2022, 643, 118782.	4.3	3
4154	Biomimetic high-flux proton pump constructed with asymmetric polymeric carbon nitride membrane. Nano Research, 2023, 16, 18-24.	10.4	4
4155	Synthesis of g-C3N4/CuO Nanocomposite as a Supercapacitor with Improved Electrochemical Performance for Energy Storage applications. International Journal of Electrochemical Science, 2022, 17, 220838.	1.3	14
4156	In situ grown of thulium/samarium mixed metal–organic frameworks onto Ni foam as outstanding binder-free battery type high-performance electrode for supercapacitors. Journal of Energy Storage, 2022, 53, 105194.	8.1	3
4157	Nanostructured materials based on g-C3N4 for enhanced photocatalytic activity and potentials application: A review. Arabian Journal of Chemistry, 2022, 15, 104070.	4.9	27
4158	Which is the photocatalytic efficiency better the g-C3N4 on surface or carbon microspheres on surface in carbon microspheres/g-C3N4?. Optical Materials, 2022, 131, 112698.	3.6	1
4159	Enhanced boron modified graphitic carbon nitride for the selective photocatalytic production of benzaldehyde. Separation and Purification Technology, 2022, 298, 121613.	7.9	6
4160	Efficient visible-light-driven photoreduction of U(VI) by carbon dots modified porous g-C3N4. Separation and Purification Technology, 2022, 298, 121590.	7.9	14
4161	Carbon nitride for photocatalytic water splitting to produce hydrogen and hydrogen peroxide. Materials Today Chemistry, 2022, 26, 101028.	3.5	17

		CITATION REPORT		
#	Article		IF	CITATIONS
4162	Carbohydrate-regulated synthesis of ultrathin porous nitrogen-vacancy polymeric carbo highly efficient Visible-light hydrogen evolution. Chemical Engineering Journal, 2022, 4	on nitride for 50, 138010.	12.7	6
4163	Efficient charge transfer in Co-doped CeO2/graphitic carbon nitride with N vacancies h for photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 6	eterojunction 527, 261-269.	9.4	17
4164	Electrochemiluminescence resonance energy transfer biosensing platform between g-C and Ru–SiO2@FA for dual-wavelength ratiometric detection of SARS-CoV-2 RdRp ger Bioelectronics, 2022, 215, 114580.	.3N4 nanosheet ne. Biosensors and	10.1	23
4165	Enhanced nonsacrificial photocatalytic generation of hydrogen peroxide under visible li modified graphitic carbon nitride with doped phosphorus and loaded carbon quantum Constructing electron transfer channel. Journal of Colloid and Interface Science, 2022,	ght using dots: 628, 259-272.	9.4	12
4166	Crystalline Domains Nested on Two-Dimensional Nanosheets as Heterogeneous Nanon the Sustainable Production of Bioactive Compounds from <i>Chlorella sorokiniana</i> . Sustainable Chemistry and Engineering, 2022, 10, 9732-9748.	nachineries for ACS	6.7	4
4167	Modification of g-C3N4 with hydroxyethyl cellulose as solid proton donor via hydrogen enhance H2O2 production. Applied Catalysis B: Environmental, 2022, 318, 121749.	bond to	20.2	35
4168	Photocatalytic production of hydrogen peroxide at high throughput. Chem Catalysis, 2	022, 2, 1515-1516.	6.1	0
4169	Template-Free Synthesis of g-C3N4 Nanoball/BiOCl Nanotube Heterojunction with Enh Photocatalytic Activity. Nanomaterials, 2022, 12, 2569.	anced	4.1	4
4170	Wearable Triboelectric Nanogenerators Based on Polyamide Composites Doped with 2 Carbon Nitride. Polymers, 2022, 14, 3029.	D Graphitic	4.5	10
4171	Challenges and advances of organic electrode materials for sustainable secondary batt Exploration, 2022, 2, .	eries.	11.0	20
4172	Enhanced photo-electrochemical response of screen-printed electrodes based on g-C31 spheres and other morphologies for sensing applications. FlatChem, 2022, 35, 100412	N4 hollow 	5.6	9
4173	Phosphorus modified and Cul incorporated polymeric g-C3N4 photocatalyst for efficier photocatalytic hydrogen production under direct solar light irradiation. Materials Scien Engineering B: Solid-State Materials for Advanced Technology, 2022, 284, 115873.	nt ce and	3.5	7
4174	Boosting photocatalytic nitrogen reduction to ammonia by dual defective -C N and K-d graphitic carbon nitride nanorod arrays. Applied Catalysis B: Environmental, 2022, 317,	oping sites on , 121752.	20.2	22
4175	Poly(heptazine imide) with Enlarged Interlayers Spacing for Efficient Photocatalytic NO Decomposition. Applied Catalysis B: Environmental, 2022, 317, 121719.		20.2	13
4176	Photo-Fenton degradation of multiple pharmaceuticals at low concentrations via Cu-do carbon nitride (g-C3N4) under simulated solar irradiation at a wide pH range. Journal of Environmental Chemical Engineering, 2022, 10, 108290.	ped-graphitic	6.7	9
4177	Photodynamic Alzheimer's disease therapy: From molecular catalysis to photo-nand Coordination Chemistry Reviews, 2022, 470, 214726.	omedicine.	18.8	12
4178	A dual optimization approach for photoreduction of CO2 to alcohol in g-C3N4/BaTiO3 Heterojunction construction and ferroelectric polarization. Applied Surface Science, 20 154310.	system: 122, 602,	6.1	11
4179	Recent advances in the use of graphitic carbon nitride-based composites for the electro detection of hazardous contaminants. Coordination Chemistry Reviews, 2022, 470, 21	ochemical 4708.	18.8	108

#	Article	IF	CITATIONS
4180	Electronic modulation of NiO by constructing an amorphous/crystalline heterophase to improve photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 18939-18949.	10.3	11
4181	Design of Few-Layer Carbon Nitride/Bifeo3 Composites for Efficient Organic Pollutant Photodegradation. SSRN Electronic Journal, 0, , .	0.4	0
4182	Improving hydrogen production for carbon-nitride-based materials: crystallinity, cyanimide groups and alkali metals in solution working synergistically. Journal of Materials Chemistry A, 2022, 10, 18156-18161.	10.3	10
4183	Znfe2o4-Srtio3 Z-Scheme Heterojunction for Highly Efficient Photocatalytic Degradation and Co2 Conversion. SSRN Electronic Journal, 0, , .	0.4	Ο
4184	Preparation of P-doped CdS nanorods as an efficient photocatalyst for the degradation of the emerging pollutant tetracycline antibiotic under blue LED light irradiation. Dalton Transactions, 2022, 51, 13646-13656.	3.3	6
4185	Multiple ordered porous honeycombed g-C ₃ N ₄ with carbon ring in-plane splicing for outstanding photocatalytic H ₂ production. Journal of Materials Chemistry A, 2022, 10, 17817-17826.	10.3	18
4186	CHAPTER 3. Synthesis of Two-dimensional Hybrid Materials, Unique Properties, and Challenges. , 2022, , 64-125.		0
4187	Probing interfacial charge transfer in heterojunctions for photocatalysis. Physical Chemistry Chemical Physics, 2022, 24, 19659-19672.	2.8	5
4188	Rapid sterilisation and diabetic cutaneous regeneration using cascade bio-heterojunctions through glucose oxidase-primed therapy. Bioactive Materials, 2023, 25, 748-765.	15.6	7
4189	Carbon nitride photocatalyst with internal electric field induced photogenerated carriers spatial enrichment for enhanced photocatalytic water splitting. Materials Today, 2022, 58, 100-109.	14.2	24
4190	Twoâ^'dimensional nanomaterials confined single atoms: New opportunities for environmental remediation. Nano Materials Science, 2023, 5, 15-38.	8.8	10
4191	Tuning nitrogen defects and doping sulfur in carbon nitride for enhanced visible light photocatalytic activity. Frontiers of Chemical Science and Engineering, 2023, 17, 93-101.	4.4	3
4192	2D Nanomaterial—Based Electrocatalyst for Water Soluble Hydroperoxide Reduction. Catalysts, 2022, 12, 807.	3.5	2
4193	Production of mesoporous carbon nitrides and their photocatalytic properties for degradation of organic pollutants. Bulletin of the Korean Chemical Society, 2022, 43, 1124-1129.	1.9	11
4194	Fabrication of a Novel of Pt@CeZr-MOF/g-C3N4 Nanocomposite and Rapid Determination of H2O2. Russian Journal of Physical Chemistry A, 2022, 96, 1525-1534.	0.6	0
4195	Recent progress on rational design of catalysts for fermentative hydrogen production. SusMat, 2022, 2, 392-410.	14.9	11
4196	Direct Z-scheme CoS/g-C3N4 heterojunction with NiS co-catalyst for efficient photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2022, 47, 34430-34443.	7.1	33
4197	Constructing Ni4/Fe@Fe3O4-g-C3N4 nanocomposites for highly efficient degradation of carbon tetrachloride from aqueous solution. Chemosphere, 2022, 307, 136169.	8.2	3

#	Article	IF	CITATIONS
4198	Efficient degradation of tetracycline under the conditions of high-salt and coexisting substances by magnetic CuFe2O4/g-C3N4 photo-Fenton process. Chemosphere, 2022, 308, 136204.	8.2	10
4199	Substituent engineering in g-C3N4/COF heterojunctions for rapid charge separation and high photo-redox activity. Science China Chemistry, 2022, 65, 1704-1709.	8.2	81
4200	Ternary Z-Scheme Ag-Embedded TiO ₂ –Ag ₂ S Nanojunction as a Novel Photoelectrochemical Converter for CD44 Detection. Analytical Chemistry, 2022, 94, 11713-11720.	6.5	15
4201	AgBr/BiOI/g-C ₃ N ₄ Photocatalyst with Enhanced Photocatalytic Activity under Visible-Light Irradiation via the Formation of Double Z-Type Heterojunction with the Synergistic Effect of Metal Ag. Industrial & amp; Engineering Chemistry Research, 2022, 61, 12918-12930.	3.7	4
4202	Preparation of hierarchical porous carbon derived by edible fungus residues for high performance supercapacitors. Journal of Porous Materials, 0, , .	2.6	0
4203	Research Progress and Perspectives on Active Sites of Photo- and Electrocatalytic Nitrogen Reduction. Energy & Fuels, 2022, 36, 11323-11358.	5.1	11
4204	Two birds with one stone: Engineering polymeric carbon nitride with n-ï€â^— electronic transition for extending light absorption and reducing charge recombination. , 2023, 2, 100077.		10
4205	Efficient photocatalytic aerobic oxidations by a molecular cobalt catalyst linked to mesoporous carbon nitride. Catalysis Communications, 2022, 170, 106498.	3.3	3
4206	Adenine-functionalized conjugated polymer as an efficient photocatalyst for hydrogen evolution from water. International Journal of Hydrogen Energy, 2022, 47, 29771-29780.	7.1	3
4207	Improved carrier dynamics in nickel/urea-functionalized carbon nitride for ethanol photoreforming. Photochemical and Photobiological Sciences, 2022, 21, 2115-2126.	2.9	5
4208	2D Metalâ€Organic Framework Based on the Functionalized Anthracene Derivative as A Dualâ€Functional Luminescent Probe for Fe ³⁺ and Ascorbic Acid. ChemistrySelect, 2022, 7, .	1.5	0
4209	Selective CO ₂ -to-Formate Conversion Driven by Visible Light over a Precious-Metal-Free Nonporous Coordination Polymer. ACS Catalysis, 2022, 12, 10172-10178.	11.2	13
4210	Ultrafast Electron Transfer from Crystalline g-C ₃ N ₄ to Pt Revealed by Femtosecond Transient Absorption Spectroscopy. Energy & Fuels, 2022, 36, 11532-11541.	5.1	13
4211	Pointâ€ŧoâ€face contact heterojunctions: Interfacial design of 0D nanomaterials on 2D g ₃ N ₄ towards photocatalytic energy applications. , 2022, 4, 665-730.		40
4212	Unraveling Structural Carboxyl Defects in g ₃ N ₄ for ImprovedÅPhotocatalyticÂH ₂ ÂEvolutionÂviaÂAlternating Hydrogenâ€Oxygenâ€Plasma Treatment. Advanced Sustainable Systems, 2022, 6, .	5.3	3
4213	Twoâ€Dimensional Covalent Heptazineâ€Based Framework Enables Highly Photocatalytic Performance for Overall Water Splitting. Advanced Science, 2022, 9, .	11.2	15
4214	Carbon Nitride Photoredox Catalysis Enables the Generation of the Dioxolanyl Radical for Conjugate Addition Reactions. ACS Catalysis, 2022, 12, 10787-10792.	11.2	10
4215	Nongraphitic Carbon Nitride Melem Oligomer Nanosheets for Photocatalytic Degradation of Organic Pollutants. ACS Applied Nano Materials, 2022, 5, 13659-13670.	5.0	9

#	Article	IF	CITATIONS
4216	Development of machine learning models to enhance element-doped g-C3N4 photocatalyst for hydrogen production through splitting water. International Journal of Hydrogen Energy, 2022, 47, 34075-34089.	7.1	7
4217	Regulating polymerization degree of heptazines in carbon nitride with fumaric acid to enhance photocatalytic activity. Chemosphere, 2022, 307, 136210.	8.2	1
4218	Efficient Water Cleaning by Selfâ€standing Carbon Nitride Films Derived from Supramolecular Hydrogels. Chemistry - A European Journal, 2022, 28, .	3.3	3
4219	Integration of plasmonic AgPd alloy nanoparticles with single-layer graphitic carbon nitride as Mott-Schottky junction toward photo-promoted H2 evolution. Scientific Reports, 2022, 12, .	3.3	17
4220	Fabrication of g-C ₃ N ₄ /N,Fe co-doped CQDs composites: in situ decoration of g-C ₃ N ₄ with N-CQDs and Fe and efficient visible-light photocatalytic degradation of tetracycline. Journal Physics D: Applied Physics, 2022, 55, 444005.	2.8	5
4221	Carbon Nanodots from an In Silico Perspective. Chemical Reviews, 2022, 122, 13709-13799.	47.7	45
4222	Z-scheme Ag-loaded g-C3N4/CuNb2O6 composite photocatalyst for RhB dye degradation. Research on Chemical Intermediates, 2022, 48, 4163-4182.	2.7	6
4223	Carbon-based photocatalysts for hydrogen production: A review. Chemosphere, 2022, 308, 135998.	8.2	5
4224	Preparation of a Flower-Like BiOCl/K-C3N4 p-n Heterojunction and Photodegradation Formaldehyde and Dyes. Journal of Electronic Materials, 2022, 51, 6228-6237.	2.2	1
4225	Nanoporous Graphitic Carbon Nitride as Catalysts for Cofactor Regeneration. ACS Applied Nano Materials, 2022, 5, 11229-11240.	5.0	7
4226	Photothermal conversion of CO2 to fuel with nickel-based catalysts: A review. , 2022, 1, 204-217.		6
4227	2D/1D Z-scheme WO ₃ /g-C ₃ N ₄ photocatalytic heterojunction with enhanced photo-induced charge-carriers separation. Journal Physics D: Applied Physics, 2022, 55, 434005.	2.8	2
4228	Pyrene-based conjugated microporous polymers for red light-powered oxidation of amines to imines. Applied Catalysis B: Environmental, 2022, 318, 121875.	20.2	18
4229	Hydrogen production from wastewater, storage, economy, governance and applications: a review. Environmental Chemistry Letters, 2022, 20, 3453-3504.	16.2	18
4230	Simultaneous Growth of the SnO ₂ Nanostructure and Phase Transformation of the Carbon Nitride Matrix by a Hydrothermal Process for Efficient Solar Hydrogen Evolution. ACS Applied Energy Materials, 2022, 5, 9733-9741.	5.1	8
4231	The effect of precursor selection on the microwave-assisted synthesis of graphitic carbon nitride. Catalysis Today, 2023, 424, 113868.	4.4	16
4232	Enhanced Schottky Effect in the Ni ₂ P Cocatalyst via Work Function Up-Shift Induced by MoO ₂ for Boosting Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2022, 10, 10627-10640.	6.7	15
4233	Synthesis of vacant graphitic carbon nitride in argon atmosphere and its utilization for photocatalytic hydrogen generation. Scientific Reports, 2022, 12, .	3.3	8

#	ARTICLE	IF	CITATIONS
4234	Photocatalytic Performance under Visible Light Irradiation. International Journal of Electrochemical Science, 2022, 17, 220966.	1.3	3
4235	Facile synthesis of amorphous zirconium phosphate graphitic carbon nitride composite and its high performance for photocatalytic degradation of indigo carmine dye in water. Journal of Materials Research and Technology, 2022, 20, 1456-1469.	5.8	17
4236	Experimental and theoretical identifications of durable Fe–Nx configurations embedded in graphitic carbon nitride for uranium photoreduction. Journal of Environmental Chemical Engineering, 2022, 10, 108374.	6.7	2
4237	Molecular engineered graphitic carbon nitride with strong and stable electrochemiluminescence for immunosensing. Microchemical Journal, 2022, 181, 107846.	4.5	6
4238	Floatable graphitic carbon nitride/alginate beads for the photodegradation of organic pollutants under solar light irradiation. Journal of Cleaner Production, 2022, 371, 133641.	9.3	15
4239	Improved photoresponse of graphitic carbon nitride films via pressure engineering. Carbon, 2022, 199, 453-461.	10.3	5
4240	Coordinating single-atom catalysts on two-dimensional nanomaterials: A paradigm towards bolstered photocatalytic energy conversion. Coordination Chemistry Reviews, 2022, 471, 214743.	18.8	25
4241	Pyridazine doped g-C3N4 with nitrogen defects and spongy structure for efficient tetracycline photodegradation and photocatalytic H2 evolution. Chemosphere, 2022, 307, 136087.	8.2	14
4242	Preparation and immobilization of Bi2WO6/BiOI/g-C3N4 nanoparticles for the photocatalytic degradation of tetracycline and municipal waste transfer station leachate. Separation and Purification Technology, 2022, 300, 121867.	7.9	26
4243	Nanohybrid catalysts with porous structures for environmental remediation through photocatalytic degradation of emerging pollutants. Environmental Research, 2022, 214, 113955.	7.5	18
4244	The role of doping strategy in nanoparticle-based electrochemiluminescence biosensing. Bioelectrochemistry, 2022, 148, 108249.	4.6	4
4245	Oxidation of micropollutants by visible light active graphitic carbon nitride and ferrate(VI): Delineating the role of surface delocalized electrons. Chemosphere, 2022, 307, 135886.	8.2	7
4246	Constructing porous carbon nitride nanosheets for efficient visible-light-responsive photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 628, 214-221.	9.4	8
4247	Construction of rGO-coupled C3N4/C3N5 2D/2D Z-scheme heterojunction to accelerate charge separation for efficient visible light H2 evolution. Applied Catalysis B: Environmental, 2022, 318, 121822.	20.2	65
4248	Heterointerface engineered and highly dual-functional N-doped carbon dot /N-rich g-C3N4 hybrid photocatalysts. Materials Today Chemistry, 2022, 26, 101081.	3.5	2
4249	Removal and recovery of aqueous U(VI) by heterogeneous photocatalysis: Progress and challenges. Chemical Engineering Journal, 2022, 450, 138317.	12.7	27
4250	Molybdenum atomic sites embedded 1D carbon nitride nanotubes as highly efficient bifunctional photocatalyst for tetracycline degradation and hydrogen evolution. Chemical Engineering Journal, 2023, 451, 138305.	12.7	16
4251	Photocatalytic H2O2 production Systems: Design strategies and environmental applications. Chemical Engineering Journal, 2023, 451, 138489.	12.7	67

#	Article	IF	CITATIONS
4252	Purposefully designing Co-S-codoping in hierarchical BiOCl architectures and elucidating the mechanism for enhanced visible-light-driven photocatalytic activity. Applied Surface Science, 2022, 604, 154582.	6.1	13
4253	Porous 3D carbon-based materials: An emerging platform for efficient hydrogen production. Nano Research, 2023, 16, 127-145.	10.4	20
4254	Potassium-doped carbon nitride: Highly efficient photoredox catalyst for selective oxygen reduction and arylboronic acid hydroxylation. Journal of Catalysis, 2022, 414, 64-75.	6.2	9
4255	Graphitic-C3N4/ZnCr-layered double hydroxide 2D/2D nanosheet heterojunction: Mesoporous photocatalyst for advanced oxidation of azo dyes with in situ produced H2O2. Advanced Powder Technology, 2022, 33, 103777.	4.1	11
4256	Improvement optical efficiency of modified g-C3N4 with soft templating agents as photocatalyst for photodegradation efficiency of pollutants, UV–vis and fluorescence spectroscopy studies. Optical Materials, 2022, 133, 112908.	3.6	4
4257	Efficient photocatalysis of carbon coupled TiO2 to degrade pollutants in wastewater – A review. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100737.	2.9	13
4258	Effects of vacancies on the electronic structures and photocatalytic properties of g-C3N4. Vacuum, 2022, 206, 111483.	3.5	4
4259	Design of few-layer carbon nitride/BiFeO3 composites for efficient organic pollutant photodegradation. Environmental Research, 2022, 215, 114190.	7.5	5
4260	Crystallinity and lattice vacancies of different mesoporous g-C3N4 for photodegradation of tetracycline and its cytotoxic implication. Chemosphere, 2022, 308, 136219.	8.2	7
4261	Ultrasonically assisted preparation of molybdenum sulfide/graphitic carbon nitride nanohybrid as counter electrode material for dye-sensitized solar cell. Journal of Alloys and Compounds, 2022, 929, 167220.	5.5	4
4262	The charge transfer pathway of g-C3N4 decorated Au/Ni3(VO4)2 composites for highly efficient photocatalytic hydrogen evolution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 655, 130183.	4.7	4
4263	Fast charge separation and transfer strategy in polymeric carbon nitride for efficient photocatalytic H2 evolution: Coupling surface Schottky junctions and interlayer charge transfer channels. Nano Energy, 2022, 103, 107767.	16.0	33
4264	Recent progress in NOx photocatalytic removal: Surface/interface engineering and mechanistic understanding. Journal of Environmental Chemical Engineering, 2022, 10, 108566.	6.7	15
4265	Evolutionary face-to-face 2D/2D bismuth-based heterojunction: The quest for sustainable photocatalytic applications. Applied Materials Today, 2022, 29, 101636.	4.3	9
4266	Ultrafast charge-transfer at interfaces between 2D graphitic carbon nitride thin film and carbon fiber towards enhanced photocatalytic hydrogen evolution. Applied Surface Science, 2022, 606, 154938.	6.1	16
4267	Stable immobilization of bacterial endospores in reusable g-C3N4 pellets at room temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 654, 130161.	4.7	2
4268	Stitching electron localized heptazine units with "carbon patches―to regulate exciton dissociation behavior of carbon nitride for photocatalytic elimination of petroleum hydrocarbons. Chemical Engineering Journal, 2023, 452, 139092.	12.7	7
4269	Dual role of g-C3N4 microtubes in enhancing photocatalytic CO2 reduction of Co3O4 nanoparticles. Carbon, 2023, 201, 415-424.	10.3	29

#	Article	IF	CITATIONS
4270	A label-free PEC aptasensor platform based on g-C3N4/BiVO4 heterojunction for tetracycline detection in food analysis. Food Chemistry, 2023, 402, 134258.	8.2	22
4271	Cobalt Clusters in Superior Thin G-C3n4 Nanosheets for Enhanced H2/H2o2 Generation and No Removal. SSRN Electronic Journal, 0, , .	0.4	0
4272	Application Scope, Challenges and Future Perspectives of Organic–Inorganic Nanohybrids. Materials Horizons, 2022, , 499-508.	0.6	0
4273	Photogenerated carrier dynamics at the B ₄ C ₃ /g-C ₃ N ₄ interface. Physical Chemistry Chemical Physics, 2022, 24, 24860-24865.	2.8	3
4274	Two-dimensional AlXY (X = S, Se, and Y = Cl, Br, I) monolayers: promising photocatalysts for water splitting with high-anisotropic carrier mobilities. Journal of Materials Chemistry A, 2022, 10, 22676-22685.	10.3	9
4275	Soluble carbon nitride nanosheets as an alternate precursor for hard-templated morphological control. Nanoscale, 2022, 14, 13580-13592.	5.6	1
4276	High-Efficiency Photocatalytic Degradation of Rhb by Protonation of G-C3n4 with Ag-Doped Tio2 Nanofibers. SSRN Electronic Journal, 0, , .	0.4	0
4277	A Green, Efficient Reductive N-Formylation of Nitroarenes Catalyzed by Metal-Free Graphitic Carbon Nitride Supported on Activated Carbon. SSRN Electronic Journal, 0, , .	0.4	0
4278	Multi-stepwise electron transfer <i>via</i> MOF-based nanocomposites for photocatalytic ammonia synthesis. Catalysis Science and Technology, 2022, 12, 5540-5548.	4.1	5
4279	Morphology-controlled self-assembled nanostructures of complementary metalloporphyrin triads obtained through tuning their intermolecular coordination and their photocatalytic degradation of Orange II dye. Inorganic Chemistry Frontiers, 2022, 9, 5538-5548.	6.0	10
4280	A Cqd/Cds/G-C3n4 Photocatalyst for Dye and Antibiotic Degradation: Dual Carrier Driving Force and Tunable Electron Transfer Pathway. SSRN Electronic Journal, 0, , .	0.4	1
4281	Modulating the anodic electrochemiluminescence of graphitic carbon nitride by thiophene doping. New Journal of Chemistry, 2022, 46, 16114-16120.	2.8	1
4282	Crystal facet and phase engineering for advanced water splitting. CrystEngComm, 2022, 24, 5838-5864.	2.6	23
4283	Visible-Light-Driven g-C ₃ N ₄ /TiO ₂ Based Heterojunction Nanocomposites for Photocatalytic Degradation of Organic Dyes in Wastewater: A Review. Air, Soil and Water Research, 2022, 15, 117862212211172.	2.5	24
4284	Fabrication of Mn/P co-doped hollow tubular carbon nitride by a one-step hydrothermal–calcination method for the photocatalytic degradation of organic pollutants. Catalysis Science and Technology, 2022, 12, 5709-5722.	4.1	7
4285	Cobaltous Selenide/C-C3n4ÂHeterojunction Photocatalyst Based on Double-Electron Migration Mechanism Promotes Hydrogen Production and Tetracycline Hydrochloride Degradation. SSRN Electronic Journal, 0, , .	0.4	0
4286	Vacancy-modified g-C ₃ N ₄ and its photocatalytic applications. Materials Chemistry Frontiers, 2022, 6, 3143-3173.	5.9	29
4287	Quantum Dots: Applications in Environmental Remediation. , 2022, , 1-22.		0

#	Article	IF	CITATIONS
4288	Light-driven biocatalytic oxidation. Chemical Science, 2022, 13, 12260-12279.	7.4	14
4289	2D/2D S-scheme heterojunction with a covalent organic framework and g-C3N4 nanosheets for highly efficient photocatalytic H2 evolution. Chinese Journal of Catalysis, 2022, 43, 2592-2605.	14.0	59
4290	The Synthesis and Near-Infrared Photothermal Conversion of a Interdigitated Coordination Molecule. SSRN Electronic Journal, 0, , .	0.4	0
4291	A novel metal-free ternary core–shell carbon sphere/C ₃ N ₄ /PPy nanocomposite for high-performance supercapacitors. New Journal of Chemistry, 2022, 46, 15292-15295.	2.8	4
4292	Engineering In-Plane Î-Conjugated Structure in Ultrathin G-C3n4 Nanosheets for Enhanced Photocatalytic Reduction Performance. SSRN Electronic Journal, 0, , .	0.4	0
4293	Building a Z-scheme heterojunction with Keggin-type heteropolymer modified two-dimensional g-C ₃ N ₄ for significant photocatalytic performance. New Journal of Chemistry, 2023, 47, 18143-18154.	2.8	1
4294	CHAPTER 8. Photoelectrochemical CO2 Conversion Through the Utilization of Non-oxide Two-dimensional Nanomaterials. , 2022, , 230-243.		0
4295	Development of heterogeneous photocatalysts <i>via</i> the covalent grafting of metal complexes on various solid supports. Chemical Communications, 2022, 58, 11354-11377.	4.1	12
4296	Solvent-free aerobic photocatalytic oxidation of alcohols to aldehydes over ZnO/C ₃ N ₄ . Green Chemistry, 2022, 24, 7652-7660.	9.0	17
4297	Potassium-Modified Carbon Nitride Photocatalyzed-Hydroxymethylation of Quinoxalin-2(1h)-Ones. SSRN Electronic Journal, 0, , .	0.4	0
4298	N, S, P Tri-Doped Carbon as Highly Efficient Catalyst for Oxygen Reduction Reaction. SSRN Electronic Journal, 0, , .	0.4	0
4299	TiO ₂ nanoparticles decorated with Co-Schiff base-g-C ₃ N ₄ as an efficient photocatalyst for one-pot visible light-assisted synthesis of benzimidazoles. RSC Advances, 2022, 12, 22526-22541.	3.6	7
4300	Zinc ferrite-graphitic carbon nitride nanohybrid for photo-catalysis of the antibiotic ciprofloxacin. Catalysis Science and Technology, 2022, 12, 6518-6526.	4.1	6
4301	Design and application of g-C3N4-based materials for fuels photosynthesis from CO2 or H2O based on reaction pathway insights. Journal of Colloid and Interface Science, 2023, 629, 825-846.	9.4	6
4302	Recent progress in the applications of non-metal modified graphitic carbon nitride in photocatalysis. Coordination Chemistry Reviews, 2023, 474, 214846.	18.8	87
4303	Scrutinizing the role of tunable carbon vacancies in g-C3N4 nanosheets for efficient sonophotocatalytic degradation of Tetracycline in diverse water matrices: Experimental study and theoretical calculation. Chemical Engineering Journal, 2023, 452, 139437.	12.7	27
4304	Efficient photohydrogen production by edge-modified carbon nitride with nonmetallic group. Journal of Colloid and Interface Science, 2023, 629, 739-749.	9.4	11
4305	Unraveling the effects of P and S doping over g-C3N4 in strengthening Lewis basicity for CO2/glycerol conversion: A theoretical and experimental study. Carbon, 2023, 201, 129-140.	10.3	18

#	Article	IF	CITATIONS
4306	A green, efficient reductive N-formylation of nitro compounds catalyzed by metal-free graphitic carbon nitride supported on activated carbon. Applied Catalysis B: Environmental, 2023, 321, 122042.	20.2	12
4307	Identification and ultrasensitive photoelectrochemical detection of LncNR_040117: a biomarker of recurrent miscarriage and antiphospholipid antibody syndrome in platelet-derived microparticles. Journal of Nanobiotechnology, 2022, 20, .	9.1	7
4308	Noble-metal free plasmonic nanomaterials for enhanced photocatalytic applications—A review. Nano Research, 2022, 15, 10268-10291.	10.4	15
4309	Hierarchical Porous Carbon Nitride-Crumpled Nanosheet-Embedded Copper Single Atoms: An Efficient Catalyst for Carbon Monoxide Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 40749-40760.	8.0	35
4310	Recent status and future perspectives of ZnIn2S4 for energy conversion and environmental remediation. Chinese Chemical Letters, 2023, 34, 107775.	9.0	8
4311	Recent Advances of Doping and Surface Modifying Carbon Nitride with Characterization Techniques. Catalysts, 2022, 12, 962.	3.5	16
4312	Supramolecular assembly-derived carbon-nitrogen-based functional materials for photo/electrochemical applications: progress and challenges. , 2023, 2, 20220032.		4
4313	Hybrid <scp>2D</scp> / <scp>3D</scp> Graphitic Carbon Nitrideâ€Based Highâ€Temperature Positionâ€Sensitive Detector. Energy and Environmental Materials, 2024, 7, .	12.8	1
4314	The GaSe/g-C6N6 type-II van der Waals heterostructure: A prospective water-splitting photocatalyst under acidic, alkaline and neutral conditions. Thin Solid Films, 2022, 758, 139419.	1.8	4
4315	Accelerated Photodegradation of Organic Pollutants over BiOBr/Protonated g-C3N4. Catalysts, 2022, 12, 1109.	3.5	7
4316	Carbon Nitride Nanosheet-Based Photochromic Physical Unclonable Functions for Anticounterfeiting Applications. ACS Applied Nano Materials, 2022, 5, 14722-14732.	5.0	16
4317	The Progress and Outlook of Metal Single-Atom-Site Catalysis. Journal of the American Chemical Society, 2022, 144, 18155-18174.	13.7	151
4318	Coordination of Pt(IV) by {P ₈ W ₄₈ } Macrocyclic Inorganic Cavitand: Structural, Solution, and Electrochemical Studies. Inorganic Chemistry, 2022, 61, 14560-14567.	4.0	9
4319	Redox Biocatalysis: Quantitative Comparisons of Nicotinamide Cofactor Regeneration Methods. ChemSusChem, 2022, 15, .	6.8	20
4320	Polymeric Carbon Nitride-based Single Atom Photocatalysts for CO2 Reduction to C1 Products. Chemical Research in Chinese Universities, 2022, 38, 1197-1206.	2.6	7
4321	Photocatalytic hydrogen production using bimetallic and trimetallic hydrotalcite as photocatalysts. Materials Letters, 2023, 330, 133205.	2.6	1
4322	Toward Excellence in Photocathode Engineering for Photoelectrochemical CO ₂ Reduction: Design Rationales and Current Progress. Advanced Energy Materials, 2022, 12, .	19.5	30
4323	Designing a 0D/1D S-Scheme Heterojunction of Cadmium Selenide and Polymeric Carbon Nitride for Photocatalytic Water Splitting and Carbon Dioxide Reduction. Molecules, 2022, 27, 6286.	3.8	4

#	Article	IF	CITATIONS
4324	Molecularly imprinted voltammetric sensor sensibilized by nitrogenâ€vacancy graphitized carbon nitride and Agâ€MWCNTs towards the detection of acetaminophen. Journal of Molecular Recognition, 2022, 35, .	2.1	4
4325	Photocatalytic Applications of g-C3N4 Based on Bibliometric Analysis. Catalysts, 2022, 12, 1017.	3.5	4
4326	Embedding Thiophene-Amide into g-C3N4 Skeleton with Induction and Delocalization Effects for High Photocatalytic H2 Evolution. Catalysts, 2022, 12, 1043.	3.5	8
4327	Adsorption Energy in Oxygen Electrocatalysis. Chemical Reviews, 2022, 122, 17028-17072.	47.7	45
4328	Prediction of Two-Dimensional Group IV Nitrides A _{<i>x</i>} N _{<i>y</i>} (A = Sn,) Tj ETQqO Physical Chemistry Letters, 2022, 13, 9316-9325.	0 0 rgBT 4.6	Overlock 10 6
4330	On the electronic properties and catalytic activity of MoS2–C3N4 materials prepared by one-pot reaction. International Journal of Hydrogen Energy, 2022, 47, 34012-34024.	7.1	5
4331	Lightâ€Induced Ammonia Generation over Defective Carbon Nitride Modified with Pyrite. Advanced Energy Materials, 2022, 12, .	19.5	16
4332	Few-layered MoS2 anchored on 2D porous C3N4 nanosheets for Pt-free photocatalytic hydrogen evolution. Nano Research, 2023, 16, 3524-3535.	10.4	19
4333	Revealing the origin of activity and selectivity for Ti/g-C3N4 to ammonia production via nitrate reduction electrocatalysis: A first-principles study. Applied Catalysis A: General, 2022, 645, 118846.	4.3	4
4334	Metal nanoparticles decorated two-dimensional nanosheets as heterogeneous catalysts for coupling reactions. Catalysis Reviews - Science and Engineering, 0, , 1-73.	12.9	6
4335	Synthesis of Porous Carbon Nitride Nanobelts for Efficient Photocatalytic Reduction of CO2. Molecules, 2022, 27, 6054.	3.8	5
4336	Graphite carbon nitride loaded nitrogen-doped carbon and cobalt nanoparticles ternary photocatalyst for enhanced solar-driven hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 38583-38593.	7.1	2
4337	Optimizing the Optical Absorption of Poly(heptazine imide) by the n → ï€* Electron Transition for Improved Photocatalytic H ₂ Evolution. ACS Applied Materials & Interfaces, 2022, 14, 41131-41140.	8.0	13
4338	Ultralong-lived triplet excitons of room-temperature phosphorescent carbon dots located on g-C3N4 to boost photocatalysis. Science China Materials, 2023, 66, 664-671.	6.3	33
4339	In situ self-assembly fabrication of ultrathin sheet-like CuS modified g–C ₃ N ₄ heterojunction and its enhanced visible-light photocatalytic performance. Nanotechnology, 2023, 34, 015713.	2.6	1
4340	Graphitic Carbon Nitride as a Heterogeneous Photocatalyst for the Hydrophosphorylation and Hydrophosphorylative Cyclization Reactions of Terminal Alkyne and Its Derived Enynes. ChemCatChem, 2022, 14, .	3.7	1
4341	Advanced oxidation processes for the removal of mono and polycyclic aromatic hydrocarbons – A review. Science of the Total Environment, 2023, 857, 159043.	8.0	40
4342	Carbon-based nanostructures for emerging photocatalysis: CO2 reduction, N2 fixation, and organic	8.5	12

#	Article	IF	CITATIONS
4343	An eco-friendly acidic catalyst phosphorus-doped graphitic carbon nitride for efficient conversion of fructose to 5-Hydroxymethylfurfural. Renewable Energy, 2022, 199, 1629-1638.	8.9	8
4344	A Critical Review on New and Efficient 2D Materials for Catalysis. Advanced Materials Interfaces, 2022, 9, .	3.7	7
4345	Main group cyanides: from hydrogen cyanide to cyanido-complexes. Reviews in Inorganic Chemistry, 2023, 43, 49-188.	4.1	8
4346	g-C3N4-Based Direct Z-Scheme Photocatalysts for Environmental Applications. Catalysts, 2022, 12, 1137.	3.5	23
4347	Efficient visible-light-photocatalytic sterilization by novel Z-scheme MXene/TiO2/Bi2S3. Journal of Environmental Chemical Engineering, 2022, 10, 108654.	6.7	10
4348	Lysozyme-assisted ultrasonic exfoliation of graphitic carbon nitride into highly stable nanosheets with enhanced bactericidal capacity. 2D Materials, 2022, 9, 045034.	4.4	3
4349	Silicon carbide catalytic ceramic membranes with nano-wire structure for enhanced anti-fouling performance. Water Research, 2022, 226, 119209.	11.3	18
4350	Synthesis of Porous g-Câ,ƒNâ,,, and Its Application as Photocatalyst for Methylene Blue Degradation. Malaysian Journal of Fundamental and Applied Sciences, 2022, 18, 463-472.	0.8	4
4351	Metal-free N-GQDs/P-g-C3N4 photocatalyst with broad-spectrum response: Enhanced exciton dissociation and charge migration for promoting H2 evolution and tetracycline degradation. Separation and Purification Technology, 2023, 304, 122297.	7.9	7
4352	Lightâ€Assisted Metalâ€Air Batteries: Progress, Challenges, and Perspectives. Angewandte Chemie, 0, , .	2.0	3
4353	Phosphorus based hybrid materials for green fuel generation. Wiley Interdisciplinary Reviews: Energy and Environment, 2023, 12, .	4.1	0
4354	Thin-wall hollow porous cystic-like graphitic carbon nitride with awakened n→π* electronic transitions and exceptional structural features for superior photocatalytic degradation of sulfamethoxazole. Chemosphere, 2023, 310, 136686.	8.2	3
4355	Highly active SERS chip with both structure-ameliorated chemical enhancement and nanocavity-mediated electromagnetic enhancement. Sensors and Actuators B: Chemical, 2023, 374, 132782.	7.8	19
4356	Environmental remediation and sustainable energy generation via photocatalytic technology using rare earth metals modified g-C3N4: A review. Journal of Alloys and Compounds, 2023, 931, 167469.	5.5	76
4357	Lightâ€Assisted Metal–Air Batteries: Progress, Challenges, and Perspectives. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
4358	Synthesis and characterization of CuO@S-doped g-C ₃ N ₄ based nanocomposites for binder-free sensor applications. RSC Advances, 2022, 12, 29959-29974.	3.6	9
4359	An S-scheme α-Fe ₂ O ₃ /g-C ₃ N ₄ heterojunction nanostructure with superior visible-light photocatalytic activity for the aza-Henry reaction. Journal of Materials Chemistry C, 2022, 10, 17075-17083.	5.5	3
4360	Coupling photocatalytic overall water splitting with hydrogenation of organic molecules: a strategy for using water as a hydrogen source and an electron donor to enable hydrogenation. Green Chemistry, 2022, 24, 9211-9219.	9.0	10

	C	Citation Report	
#	Article	IF	CITATIONS
4361	Photosynthesis of hydrogen peroxide in water: a promising on-site strategy for water remediation. Environmental Science: Water Research and Technology, 2022, 8, 2819-2842.	2.4	2
4362	Few-layer graphitic carbon nitride for enhanced visible-light photocatalytic efficiency: the role of narrow bandgap and nitrogen-vacancies. Environmental Science: Nano, 2022, 9, 4445-4458.	4.3	1
4363	Graphite carbon ring modified carbon nitride with a strong built-in electric field for high photocatalysis-self-Fenton performance. Catalysis Science and Technology, 2022, 12, 7379-7388.	4.1	9
4364	Rational catalyst design for spatial separation of charge carriers in a multi-component photocatalyst for effective hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 25380-25405.	10.3	9
4365	Accelerated Fenton degradation of azo dye wastewater <i>via</i> a novel Z-scheme CoFeN-g-C ₃ N ₄ heterojunction photocatalyst with excellent charge transfe under visible light irradiation. Dalton Transactions, 2022, 51, 17192-17202.	er 3.3	7
4366	Developing visible light responsive BN/NTCDA heterojunction with good degradation performance for tetracycline. New Journal of Chemistry, 0, , .	or 2.8	0
4367	Highly dispersed platinum-anchored g-C3N4 nanotubes for photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2023, 48, 943-952.	7.1	7
4368	Two-Dimensional Graphitic Carbon Nitride (g-C3N4) Nanosheets and Their Derivatives for Diagnosis and Detection Applications. Journal of Functional Biomaterials, 2022, 13, 204.	4.4	21
4369	Rational Design of Carbon Nitride Photoelectrodes with High Activity Toward Organic Oxidations. Angewandte Chemie, 2022, 134, .	2.0	0
4370	Energy-Level Alignment of Zn-Phthalocyanine-Physisorbed Graphitic Carbon Nitride: Effects of Corrugation. Journal of Physical Chemistry C, 2022, 126, 18208-18215.	3.1	2
4371	Research Progress on Graphitic Carbon Nitride/Metal Oxide Composites: Synthesis and Photocatalyt Applications. International Journal of Molecular Sciences, 2022, 23, 12979.	ic 4.1	4
4372	Electron flux at the Schottky junction of Bi NPs and WO3-supported g-C3N4: an efficient ternary S-scheme catalyst for removal of fluoroquinolone-type antibiotics from water. Environmental Science and Pollution Research, 2023, 30, 18461-18479.	5.3	4
4373	Heterogeneous Photocatalytic Radical Synthesis of Aryl Allyl Sulfones. Synlett, 2022, 33, 1929-1932	. 1.8	4
4374	Conductivity and dielectric properties of heterostructures based on novel graphitic carbon nitride and silver nanoparticle composite film for electronic applications. Digest Journal of Nanomaterials and Biostructures, 2022, 17, 1089-1098.	0.8	2
4375	Graphitic carbon nitride (g-C3N4)-based photocatalytic materials for hydrogen evolution. Frontiers in Chemistry, 0, 10, .	ז 3.6	12
4376	Inactivation of algae by visible-light-driven modified photocatalysts: A review. Science of the Total Environment, 2023, 858, 159640.	8.0	10

4377	Nitrogen defect engineering in porous g-C3N4 via one-step thermal approach. Emergent Materials, 2023, 6, 1117-1125.	5.7	2

4378	Boron and Phosphorus Co-Doped Graphitic Carbon Nitride Cooperate with Bu4NBr as Binary Heterogeneous Catalysts for the Cycloaddition of CO2 to Epoxides. Catalysts, 2022, 12, 1196.	Ę	3.5	1
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#	Article	IF	CITATIONS
4379	Metal Oxide Hydrogel Composites for Remediation of Dye-Contaminated Wastewater: Principal Component Analysis. Gels, 2022, 8, 702.	4.5	12
4380	Photocatalytic and Adsorptive Removal of Liquid Textile Industrial Waste with Carbon-Based Nanomaterials. Green Energy and Technology, 2023, , 1-73.	0.6	0
4381	Coordination-Assistant Chiral Agent Anchoring on Amphiphilic Graphitic Phase Carbon Nitride Membrane for Multiple Molecular Separation. ACS Applied Materials & Interfaces, 2022, 14, 50235-50245.	8.0	1
4382	Enhanced Builtâ€in Electric Field Promotes Photocatalytic Hydrogen Performance of Polymers Derived from the Introduction of Bâ†N Coordination Bond. Advanced Science, 2022, 9, .	11.2	11
4383	Engineering doping and defect in graphitic carbon nitride by one-pot method for enhanced photocatalytic hydrogen evolution. Ceramics International, 2023, 49, 6729-6738.	4.8	7
4384	Effects of the Synthesis Temperature on the Intrinsic Luminescence in g-C3N4. Bulletin of the Russian Academy of Sciences: Physics, 2022, 86, 1188-1192.	0.6	0
4385	Dehydrogenation Induced Formation of Chiral Core-Shell Arrays of Melamine on Ag(111). Chinese Physics Letters, 2022, 39, 116401.	3.3	0
4386	Singleâ€Atomic Pd Embedded 2D gâ€C ₃ N ₄ Homogeneous Catalyst Analogues for Efficient LMCT Induced Fullâ€Visibleâ€Light Photocatalytic Suzuki Coupling**. ChemistrySelect, 2022, 7, .	1.5	4
4387	Photochemical Water Splitting via Transition Metal Oxides. Catalysts, 2022, 12, 1303.	3.5	13
4388	Formation of ionic carbon nitride towards an environmentally friendly synthesis of 2-amino-5-alkylidene-thiazol-4-one. Journal of Molecular Liquids, 2022, 368, 120625.	4.9	2
4389	Rational Design of Carbon Nitride Photoelectrodes with High Activity Toward Organic Oxidations. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
4390	A facile pyrolysis synthesis of Ni doped Ce2O3@CeO2/CN composites for adsorption removal of Congo red: Activation of carbon nitride structure. Separation and Purification Technology, 2023, 305, 122505.	7.9	15
4391	Engineering Holey Defects on 2D Graphitic Carbon Nitride Nanosheets by Solvolysis in Organic Solvents. ACS Catalysis, 2022, 12, 13763-13780.	11.2	22
4392	Asymmetric Embedded Benzene Ring in Graphite Carbon Nitride Enhanced Photocatalytic Hydrogen Evolution in Visible Light. Nano, 0, , .	1.0	0
4393	Construction of the Photocatalytic Film of the Recyclable TaON/Nickel Foam with Ohmic Junction for Efficient Wastewater Treatment. Catalysts, 2022, 12, 1160.	3.5	2
4394	Graphene and graphene-like carbon nanomaterials-based electrochemical biosensors for phytohormone detection. Carbon Letters, 2023, 33, 1343-1358.	5.9	4
4395	Simultaneous Loading of Ni ₂ P Cocatalysts on the Inner and Outer Surfaces of Mesopores Pâ€Doped Carbon Nitride Hollow Spheres for Enhanced Photocatalytic Waterâ€&plitting Activity. Chemistry - A European Journal, 2023, 29, .	3.3	3

#	Article	IF	CITATIONS
4397	Photocatalytic Activity Enhancement of Graphitic Carbon Nitride Nanosheets by Modification with Ag ₃₃ (4-MePhC≡C) ₂₂ (Dppp) ₄ Nanoclusters. ACS Applied Nano Materials, 2022, 5, 14251-14255.	5.0	4
4398	A warm-white light-emitting diode based on single-component emitter aromatic carbon nitride. Nature Communications, 2022, 13, .	12.8	19
4399	Directing Quasiparticle Movement in Graphitic Carbon Nitride through Spatial Engineering for Enhanced Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2022, 5, 13200-13211.	5.1	0
4400	Recent advances on g–C3N4–based Z-scheme photocatalysts: Structural design and photocatalytic applications. International Journal of Hydrogen Energy, 2023, 48, 196-231.	7.1	42
4401	Heteroatomâ€Doped Asymmetric Metalâ€N _x â€C Single Atom Catalysts for Electrochemical CO ₂ Reduction Reaction. Chemistry - an Asian Journal, 2022, 17, .	3.3	4
4402	Construction of Novel Z-Scheme g-C3N4/AgBr-Ag Composite for Efficient Photocatalytic Degradation of Organic Pollutants under Visible Light. Catalysts, 2022, 12, 1309.	3.5	2
4403	One-Step Calcination to Gain Exfoliated g-C3N4/MoO2 Composites for High-Performance Photocatalytic Hydrogen Evolution. Molecules, 2022, 27, 7178.	3.8	2
4404	In Situ Synthesis of <scp>Cu₃P</scp> / <scp>Pâ€Doped gâ€C₃N₄</scp> Tight <scp>2D</scp> / <scp>2D</scp> Heterojunction Boosting Photocatalytic <scp>H₂</scp> Evolution ^{â€} . Chinese Journal of Chemistry, 2023, 41, 173-180.	4.9	6
4405	A Targeted Review of Current Progress, Challenges and Future Perspective of g ₃ N ₄ based Hybrid Photocatalyst Toward Multidimensional Applications. Chemical Record, 2023, 23, .	5.8	19
4406	Promote hydroxyl radical and key intermediates formation for deep toluene mineralization via unique electron transfer channel. Journal of Colloid and Interface Science, 2023, 630, 704-713.	9.4	9
4407	Ca1-xSrxGa2O4 (0.2â‰æâ‰ 0 .7): A novel photocatalyst with special stability for H2 production. Optical Materials, 2022, 133, 113079.	3.6	1
4408	MOFFeCo/B-CN composites achieve efficient degradation of antibiotics in a non-homogeneous concurrent photocatalytic-persulfate activation system. Science of the Total Environment, 2023, 858, 159795.	8.0	15
4409	Modification of Polymeric Carbon Nitride with Au–CeO2 Hybrids to Improve Photocatalytic Activity for Hydrogen Evolution. Molecules, 2022, 27, 7489.	3.8	2
4410	Constructing boron-doped graphitic carbon nitride with 2D/1D porous hierarchical architecture and efficient N2 photofixation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 656, 130481.	4.7	6
4411	Engineered MoS2 nanostructures for improved photocatalytic applications in water treatment. Materials Today Sustainability, 2023, 21, 100264.	4.1	9
4412	Heptazineâ€Based Orderedâ€Distorted Copolymers with Enhanced Visibleâ€Light Absorption for Photocatalytic Hydrogen Production. ChemSusChem, 2022, 15, .	6.8	32
4413	Highly-permeable and antifouling thin-film nanocomposite reverse osmosis membrane: Beneficial effects of 1D/2D g-C3N4 nanohybrids. Journal of Environmental Chemical Engineering, 2022, 10, 108902.	6.7	6
4414	Potassium doping carbon nitride: Dramatically enhanced photocatalytic properties for hydroxyalkylation of quinoxalin-2(1H)â€ones with alcohol under air atmosphere. Journal of Catalysis, 2022, 415, 87-94.	6.2	14

#	Article	IF	Citations
4415	Increased catalytic activity through ZnMo7O24/g-C3N4 heterostructured assemblies for greener indole condensation reaction at room temperature. Scientific Reports, 2022, 12, .	3.3	5
4416	Graphite-Like C3N4 Nanocatalysts Containing Ru, Ni, Co, Fe, Au, Ag, Cu or Zn for Photocatalytic Degradation of Organic Dyes. Russian Journal of Inorganic Chemistry, 0, , .	1.3	0
4417	Photocatalytic dye degradation and antibacterial activities of CeO2/g-C3N4 nanomaterials for environmental applications. Environmental Science and Pollution Research, 2023, 30, 98682-98700.	5.3	14
4418	Stability of van der Waals FePX ₃ materials (X: S, Se) for water-splitting applications. 2D Materials, 2023, 10, 014008.	4.4	6
4419	An overview of the current progress of graphitic carbon nitride and its multifunctional applications. Journal of Environmental Chemical Engineering, 2022, 10, 108745.	6.7	12
4420	Dual-metal sites CuInS2/g-C3N4 Z-scheme heterojunction with efficient photocatalytic CO2 reduction selectivity. Fuel Processing Technology, 2022, 238, 107530.	7.2	12
4421	Rapid preparation of g-C3N4/Bi2O2CO3 composites and their enhanced photocatalytic performance. Diamond and Related Materials, 2022, 130, 109488.	3.9	12
4422	Cobalt clusters on g-C3N4 nanosheets for enhanced H2/H2O2 generation and NO removal. Journal of Environmental Chemical Engineering, 2022, 10, 108747.	6.7	8
4423	Synthesis and modifications of g-C3N4-based materials and their applications in wastewater pollutants removal. Journal of Environmental Chemical Engineering, 2022, 10, 108782.	6.7	26
4424	In-situ topology synthesis of defective MoN nanosheets/g-C3N4 2D/2D heterojunction photocatalyst for efficient H2 production. Applied Surface Science, 2023, 608, 155199.	6.1	12
4425	Zinc hydroxystannate/zinc-tin oxide heterojunctions for the UVC-assisted photocatalytic degradation of methyl orange and tetracycline. Environmental Pollution, 2023, 316, 120353.	7.5	21
4426	The g-C3N4/Bi2Sn2O7@PAN nanofibes: Enhanced photocatalytic activity in H2 evolution by the formation of heterojunction and in-situ growth. Applied Surface Science, 2023, 608, 155228.	6.1	9
4427	High-efficiency removal of organic pollutants by visible-light-driven tubular heterogeneous micromotors through a photocatalytic Fenton process. Journal of Colloid and Interface Science, 2023, 630, 121-133.	9.4	8
4428	A CQD/CdS/g-C3N4 photocatalyst for dye and antibiotic degradation: Dual carrier driving force and tunable electron transfer pathway. Separation and Purification Technology, 2023, 305, 122333.	7.9	17
4429	Engineering the electronic structure of high performance FeCo bimetallic cathode catalysts for microbial fuel cell application in treating wastewater. Environmental Research, 2023, 216, 114542.	7.5	2
4430	Artificial visible light-induced H2O2 production using polymeric K/O-doped carbon nitride as a catalyst. Applied Surface Science, 2023, 609, 155432.	6.1	8
4431	Aminobenzaldehyde convelently modified graphitic carbon nitride photocatalyst through Schiff base reaction: Regulating electronic structure and improving visible-light-driven photocatalytic activity for moxifloxacin degradation. Journal of Colloid and Interface Science, 2023, 630, 867-878.	9.4	47
4432	Coupled adsorption and photocatalysis of g-C3N4 based composites: Material synthesis, mechanism, and environmental applications. Chemical Engineering Journal, 2023, 453, 139755.	12.7	87

#	Article	IF	CITATIONS
4433	Single-atom dispersed Zn-N3 active sites bridging the interlayer of g-C3N4 to tune NO oxidation pathway for the inhibition of toxic by-product generation. Chemical Engineering Journal, 2023, 454, 140084.	12.7	5
4434	Cellular-level insight into biointerface: From surface charge modulation to boosted photocatalytic oxidative disinfection. Chemical Engineering Journal, 2023, 453, 139956.	12.7	9
4435	Magnetic visible-light activated photocatalyst CuFe2O4/Bi2WO6/mpg-C3N4 for the treatment of natural organic matter. Chemical Engineering Journal, 2023, 453, 139777.	12.7	25
4436	Recent advances in designing ZnIn2S4-based heterostructured photocatalysts for hydrogen evolution. Journal of Materials Science and Technology, 2023, 139, 167-188.	10.7	57
4437	Flux-assisted synthesis of bismuth nanoparticle decorated carbon nitride for efficient photocatalytic degradation of endocrine disrupting compound. Dalton Transactions, 2022, 51, 18317-18328.	3.3	3
4438	Metal-free polyporphyrin based photocatalysts for the functionalization of C(sp ³)–H bonds in water. Chemical Communications, 2022, 58, 13234-13237.	4.1	1
4439	A review on catalysts for electrocatalytic and photocatalytic reduction of N ₂ to ammonia. Green Chemistry, 2022, 24, 9003-9026.	9.0	18
4440	A prompt electrochemical monitoring platform for sensitive and selective determination of thiamethoxam using Fe2O3@g-C3N4@MSB composite modified glassy carbon electrode. Journal of Food Composition and Analysis, 2023, 115, 105033.	3.9	6
4441	The construction of high efficient visible-light-driven 3D porous g-C3N4/Fe3O4 photocatalyst: A new photo-induced bacterial inactivation material enhanced by cascade photo-Fenton reaction. Chemosphere, 2023, 312, 137253.	8.2	4
4442	Liquid-phase exfoliation of graphitic carbon nitrides studied by molecular dynamics simulation. Journal of Colloid and Interface Science, 2023, 630, 900-910.	9.4	9
4443	Engineering in-plane ï€-conjugated structures in ultrathin g-C3N4 nanosheets for enhanced photocatalytic reduction performance. Applied Surface Science, 2023, 610, 155574.	6.1	3
4444	Facet-induced charge transfer and photocatalytic performance of an S-scheme hybrid heterojunction composed of porous g-C3N4 nanosheets and WO3 nanorods with exposed high-energy (0 0 1) facets. Applied Surface Science, 2023, 610, 155569.	6.1	10
4445	Electron rich P doped g-C3N4 for photodegradation of 2,4-dichlorophenoxyacetic acid under visible light by improving oxygen adsorption: Performance and catalytic mechanism. Separation and Purification Technology, 2023, 306, 122562.	7.9	5
4446	Carbon dots cooperatively modulating photocatalytic performance and surface charge of O-doped g-C3N4 for efficient water disinfection. Journal of Colloid and Interface Science, 2023, 631, 25-34.	9.4	13
4447	A comparative review on adsorption and photocatalytic degradation of classified dyes with metal/non-metal-based modification of graphitic carbon nitride nanocomposites: Synthesis, mechanism, and affecting parameters. Journal of Cleaner Production, 2023, 382, 134967.	9.3	37
4448	Accelerating NADH oxidation and hydrogen production with mid-gap states of nitrogen-rich carbon nitride photocatalyst. IScience, 2022, 25, 105567.	4.1	7
4449	Two-step polymerization nanoarchitectonics for superior thin g-C3N4 nanosheets with modulated band gap and enhanced photo- and electro-chemical performance. International Journal of Hydrogen Energy, 2023, 48, 2677-2688.	7.1	9
4450	Investigation on synthesis of ternary g-C3N4/ZnO–W/M nanocomposites integrated heterojunction II as efficient photocatalyst for environmental applications. Environmental Research, 2023, 217, 114621.	7.5	7

#	Article	IF	CITATIONS
4451	Chlorine-mediated synthesis of self-exfoliated and wavy-structured graphitic carbon nitride nanosheets for enhanced photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2023, 48, 3893-3900.	7.1	2
4452	A general strategy to synthesize single-atom metal-oxygen doped polymeric carbon nitride with highly enhanced photocatalytic water splitting activity. Applied Catalysis B: Environmental, 2023, 323, 122180.	20.2	28
4453	Porosity Engineering towards Nitrogen-Rich Carbon Host Enables Ultrahigh Capacity Sulfur Cathode for Room Temperature Potassium–Sulfur Batteries. Nanomaterials, 2022, 12, 3968.	4.1	2
4454	Piperazine-Linked Metalphthalocyanine Frameworks for Highly Efficient Visible-Light-Driven H ₂ O ₂ Photosynthesis. Journal of the American Chemical Society, 2022, 144, 21328-21336.	13.7	109
4455	Realizing efficient exciton dissociation in an all-organic heterojunction photocatalyst for highly improved photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2023, 48, 3037-3047.	7.1	3
4456	Electron-Deficient Zn-N6 Configuration Enabling Polymeric Carbon Nitride for Visible-Light Photocatalytic Overall Water Splitting. Nano-Micro Letters, 2022, 14, .	27.0	21
4457	A Comprehensive Review on Graphitic Carbon Nitride for Carbon Dioxide Photoreduction. Small Methods, 2022, 6, .	8.6	14
4458	Preparation of C3N4 Thin Films for Photo-/Electrocatalytic CO2 Reduction to Produce Liquid Hydrocarbons. Catalysts, 2022, 12, 1399.	3.5	4
4460	Detecting and Quantifying Wavelengthâ€Đependent Electrons Transfer in Heterostructure Catalyst via In Situ Irradiation XPS. Advanced Science, 2023, 10, .	11.2	23
4461	Functionalized Graphitic Carbon Nitride Nanomaterials for Electrochemiluminescent Detection of Cancer Cells. Journal of the Electrochemical Society, 2022, 169, 117507.	2.9	1
4462	Cobaltous selenide/g-C3N4 heterojunction photocatalyst based on double-electron migration mechanism promotes hydrogen production and tetracycline hydrochloride degradation. International Journal of Hydrogen Energy, 2023, 48, 3901-3915.	7.1	7
4463	Current Scenario of MXene-Based Nanomaterials for Wastewater Remediation: A Review. Chemistry, 2022, 4, 1576-1608.	2.2	8
4464	Effective visible-light-driven photocatalytic degradation of fenitrothion by s-gC ₃ N ₄ /Ag-Au bimetallic nanocomposite. Environmental Technology (United Kingdom), 2024, 45, 1483-1496.	2.2	0
4465	Recyclable Cu/g-C3N4 nanometric semiconductor catalyzed N-formylation of amines via photocatalytic aerobic oxidative C C bond cleavage of aldehydes under visible-light irradiation. Chinese Chemical Letters, 2023, 34, 108001.	9.0	5
4466	Self-Assembly 2D Ti3C2/g-C3N4 MXene Heterojunction for Highly Efficient Photocatalytic Degradation of Tetracycline in Visible Wavelength Range. Nanomaterials, 2022, 12, 4015.	4.1	6
4467	Influence of Cocatalysts (Ni, Co, and Cu) and Synthesis Method on the Photocatalytic Activity of Exfoliated Graphitic Carbon Nitride for Hydrogen Production. Nanomaterials, 2022, 12, 4006.	4.1	5
4468	Versatile heterojunction of gold nanoparticles modified phosphorus doped carbon nitride for enhanced photo-electrocatalytic sensing and degradation of 4-chlorophenol. Journal of Colloid and Interface Science, 2023, 632, 117-128.	9.4	6
4469	SrTiO3 nanosheets decorated with ZnFe2O4 nanoparticles as Z-scheme photocatalysts for highly efficient photocatalytic degradation and CO2 conversion. Separation and Purification Technology, 2023, 306, 122667.	7.9	8

#	Article	IF	Citations
4470	Axial nitrogen-coordination engineering over Fe-Nx active species for enhancing Fenton-like reaction performance. Chemical Engineering Journal, 2023, 454, 140382.	12.7	5
4472	Biodesulfurization of Dibenzothiophene by Decorating Rhodococcus erythropolis IGTS8 Using Montmorillonite/Graphitic Carbon Nitride. Catalysts, 2022, 12, 1450.	3.5	4
4473	Recyclable and dual active catalyst of copper nanocluster-bound graphitic carbon nitride for the photo-induced synthesis of arylsulfones. Molecular Catalysis, 2022, 533, 112787.	2.0	0
4474	2D/3D- C3N4/CeO2 S-scheme heterojunctions with enhanced photocatalytic performance. Inorganic Chemistry Communication, 2022, 146, 110189.	3.9	3
4475	A promoted charge separation/transfer and surface plasmon resonance effect synergistically enhanced photocatalytic performance in Cu nanoparticles and single-atom Cu supported attapulgite/polymer carbon nitride photocatalyst. Materials Today Chemistry, 2022, 26, 101250.	3.5	5
4476	Rational design of graphite carbon nitride-decorated zinc oxide nanoarrays on three-dimensional nickel foam for the efficient production of reactive oxygen species through stirring-promoted piezo–photocatalysis. Journal of Colloid and Interface Science, 2023, 632, 271-284.	9.4	17
4477	Band Edges Engineering of 2D/2D Heterostructures: The C ₃ N ₄ /Phosphorene Interface. ChemPhysChem, 2023, 24, .	2.1	2
4478	Synthesis of Z-scheme g-C3N4/WO3 nano-photocatalyst with superior antibacterial characteristics for wastewater treatment. Journal of Sol-Gel Science and Technology, 2023, 105, 212-219.	2.4	6
4479	Nanostructure Engineering of Snâ€Based Catalysts for Efficient Electrochemical CO ₂ Reduction. Small, 2023, 19, .	10.0	15
4480	Comprehensive Review for an Efficient Charge Transfer in Single Atomic Site Catalyst/Organic Polymers toward Photocatalytic CO ₂ Reduction. Advanced Materials Interfaces, 2023, 10, .	3.7	8
4481	Decomposition and mineralization of glyphosate herbicide in water by radical and non-radical pathways through peroxymonosulfate activation using Co ₃ O ₄ /g-C ₃ N ₄ : a comprehensive study. Environmental Science: Water Research and Technology, 2022, 9, 221-234	2.4	1
4482	Morphology-effects of four different dimensional graphitic carbon nitrides on photocatalytic performance of dye degradation, water oxidation and splitting. Journal of Physics and Chemistry of Solids, 2023, 173, 111109.	4.0	5
4483	Ternary nanocomposites of CdS/WO ₃ /g-C ₃ N ₄ for hydrogen production. Physical Chemistry Chemical Physics, 2023, 25, 3758-3765.	2.8	5
4484	Co-doped g-C ₃ N ₄ nanotube decorated separators mediate polysulfide redox for high performance lithium sulfur batteries. Nanoscale Advances, 2023, 5, 471-478.	4.6	2
4485	Graphitic carbon nitride (g-C3N4) synthesis methods, surface functionalization, and drug delivery applications: A review. Journal of Drug Delivery Science and Technology, 2023, 79, 104001.	3.0	16
4486	Does the Oxygen Evolution Reaction follow the classical OH*, O*, OOH* path on single atom catalysts?. Journal of Catalysis, 2023, 417, 351-359.	6.2	27
4487	Graphitic carbon nitride decorated with C–N compounds broken by <i>s</i> -triazine unit as homojunction for photocatalytic H ₂ evolution. Journal of Materials Chemistry A, 2023, 11, 800-808.	10.3	26
4488	Bottom-to-Up synthesis of functional carbon nitride polymer: Design principles, controlled synthesis and applications. European Polymer Journal, 2023, 182, 111734.	5.4	7

#	Article	IF	CITATIONS
4489	Fe ₃ S ₄ nanoparticles wrapped in a g-C ₃ N ₄ matrix: an outstanding visible active Fenton catalysis and electrochemical sensing platform for lead and uranyl ions. New Journal of Chemistry, 2023, 47, 1548-1562.	2.8	3
4490	Ex_g-C3N4 as a novel fluorescent probe for sensitive detecting ClOâ^' in water samples with portable test strip. Analytica Chimica Acta, 2023, 1239, 340715.	5.4	5
4491	Partially cross-linked carbon nitride with unimpeded charge transfer between different chains for boosting photocatalytic hydrogen production. Materials Horizons, 2023, 10, 601-606.	12.2	4
4492	Photocatalytic splitting of H ₂ O-to-H ₂ O ₂ by BiOl/g-C ₃ N ₄ /CoP S-scheme heterojunctions. New Journal of Chemistry, 2023, 47, 1825-1831.	2.8	4
4493	<i>In situ</i> protonated-phosphorus interstitial doping induces long-lived shallow charge trapping in porous C _{3â^'<i>x</i>} N ₄ photocatalysts for highly efficient H ₂ generation. Energy and Environmental Science, 2023, 16, 460-472.	30.8	42
4494	<i>In situ</i> construction of an α-MoC/g-C ₃ N ₄ Mott–Schottky heterojunction with high-speed electron transfer channel for efficient photocatalytic H ₂ evolution. Inorganic Chemistry Frontiers, 2023, 10, 832-840.	6.0	4
4495	Edge-grafting carbon nitride with aromatic rings for highly-efficient charge separation and enhanced photocatalytic hydrogen evolution. Catalysis Science and Technology, 2023, 13, 528-535.	4.1	2
4496	Electrospun self-supporting double Z-scheme tricolor-typed microfiber oriented-heterostructure photocatalyst with highly effective hydrogen evolution and organic pollutants degradation. Journal of Environmental Chemical Engineering, 2023, 11, 109169.	6.7	5
4497	MnOx-decorated oxygen-doped g-C3N4 with enhanced photocatalytic activity for efficient removal of uranium(VI). Separation and Purification Technology, 2023, 307, 122794.	7.9	9
4498	Triphenylphosphine assisted phosphorization of g-C3N4 for enhanced photocatalytic activity. Materials Letters, 2023, 333, 133726.	2.6	1
4499	In2S3/g-C3N4/CoZnAl-LDH composites with the lamellar dual S-scheme heterostructure and its enhanced photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130744.	4.7	8
4500	Pd-modified g-C3N4 with internal donor-acceptor motifs for photocatalytic CO2 reduction to tunable syngas. Applied Surface Science, 2023, 612, 155898.	6.1	5
4501	Carbon fibers derived from spent cigarette filters for supporting ZnIn2S4/g-C3N4 heterojunction toward enhanced photocatalytic hydrogen evolution. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 288, 116214.	3.5	2
4502	Efficient photoreduction removal of uranium(VI) by O, K co-doped g-C3N4 under air atmosphere without sacrificial agents. Separation and Purification Technology, 2023, 307, 122873.	7.9	5
4503	Higher-than-common temperature short-time processed polymeric carbon nitride nanosheets as an efficient photocatalyst for H2 production. Journal of Alloys and Compounds, 2023, 938, 168386.	5.5	2
4504	Efficient photocatalytic production of hydrogen peroxide by Z-scheme resorcinol-formaldehyde resin/g-C3N4 heterostructure under visible light. Chemical Engineering Journal, 2023, 454, 140504.	12.7	16
4505	Designing ultrathin Ag-embedded g-C3N4 nanocomposites for enhanced disinfection performance under visible light. Journal of Molecular Structure, 2023, 1276, 134810.	3.6	4
4506	Appropriate oxygen vacancies and Mo-N bond synergistically modulate charge transfer dynamics of MoO3â''x/S-CN for superior photocatalytic disinfection: Unveiling synergistic effects and disinfection mechanism. Journal of Hazardous Materials, 2023, 445, 130481.	12.4	66

#	Article	IF	CITATIONS
4507	Framework structure engineering of polymeric carbon nitrides and its recent applications. Progress in Materials Science, 2023, 133, 101056.	32.8	23
4508	A novel S-scheme g-C3N4/Mn(VO3)2 heterojunction photocatalyst for its superior photocatalytic degradation of broad-spectrum antibiotics. Journal of Alloys and Compounds, 2023, 936, 168163.	5.5	20
4509	Ti–N coordination bonds boost Z-scheme interfacial charge transfer in TiO2/C-deficient g-C3N4 heterojunctions for enhanced photocatalytic phenolic pollutant degradation. Applied Surface Science, 2023, 614, 156118.	6.1	11
4510	Highly selective production of singlet oxygen by manipulating the spin state of single-atom Co–N moieties and electron localization. Applied Catalysis B: Environmental, 2023, 324, 122248.	20.2	15
4511	Potential utility of BiOX photocatalysts and their design/modification strategies for the optimum reduction of CO2. Science of the Total Environment, 2023, 863, 160923.	8.0	6
4512	High-yield and crystalline graphitic carbon nitride photocatalyst: One-step sodium acetate-mediated synthesis and improved hydrogen-evolution performance. Journal of Colloid and Interface Science, 2023, 633, 817-827.	9.4	17
4513	Scalable production of visible light photocatalysts with extended nanojunctions of WO3/g-C3N4 using zeta potential and phase control in sol-gel process. Applied Surface Science, 2023, 612, 155838.	6.1	8
4514	Gadolinium molybdate decorated graphitic carbon nitride composite: highly visualized detection of nitrofurazone in water samples. RSC Advances, 2022, 12, 34066-34079.	3.6	4
4515	Simple one-pot, high-yield synthesis of 2D graphitic carbon nitride nanosheets for photocatalytic hydrogen production. Dalton Transactions, 2022, 51, 18542-18548.	3.3	15
4516	Application of smart responsive materials in phosphopeptide and glycopeptide enrichment. Chinese Journal of Chromatography (Se Pu), 2022, 40, 862-871.	0.8	1
4517	Structural Distortion of g-C3N4 Induced by N-Defects for Enhanced Photocatalytic Hydrogen Evolution. Catalysts, 2022, 12, 1496.	3.5	6
4518	Easy Synthesis of Doped Graphitic Carbon Nitride Nanosheets as New Material for Enhanced DNA Extraction from Vegetal Tissues Using a Simple and Fast Protocol. Journal of Carbon Research, 2022, 8, 68.	2.7	1
4519	A template co-pyrolysis strategy towards the increase of amino/imino content within g-C3N4 for efficient CO2 photoreduction. Chemical Engineering Journal, 2023, 455, 140630.	12.7	6
4520	Lamellar carbon nitride membrane for enhanced ion sieving and water desalination. Nature Communications, 2022, 13, .	12.8	16
4521	Merging molecular catalysts and metal–organic frameworks for photocatalytic fuel production. Nature Chemistry, 2022, 14, 1342-1356.	13.6	38
4522	Visible-light-driven nanoscale zero-valent iron loaded rGO/g-C3N4 for fluoroquinolone antibiotics degradation in water. Frontiers in Environmental Science, 0, 10, .	3.3	4
4523	Graphitic-C3N4/chitosan-doped NiO nanostructure to treat the polluted water and their bactericidal with in silico molecular docking analysis. International Journal of Biological Macromolecules, 2023, 227, 962-973.	7.5	8
4524	Regulating the Metal–Support Interaction: Double Jump to Reach the Efficiency Apex of the Fe–N4-Catalyzed Fenton-like Reaction. ACS Catalysis, 2022, 12, 14954-14963.	11.2	12

#	Article	IF	CITATIONS
4525	N-doped synergistic porous thin-walled g-C3N4 nanotubes for efficient tetracycline photodegradation. Chemical Engineering Journal, 2023, 455, 140570.	12.7	13
4526	Carbon dioxide reduction mechanism via singleâ€atom nickel supported on graphitic carbon nitride. Canadian Journal of Chemical Engineering, 2023, 101, 4640-4647.	1.7	1
4527	More than One Century of History for Photocatalysis, from Past, Present and Future Perspectives. Catalysts, 2022, 12, 1572.	3.5	3
4528	Unraveling the roles of single transition metal atom anchored on equivalent stoichiometry graphitic carbon nitride (gC ₆ N ₆) for carbon dioxide reduction: a density functional theory study. Journal Physics D: Applied Physics, 2022, 56, 024004.	2.8	0
4529	Structure-Dependent Surface Molecule-Modified Semiconductor Photocatalysts: Recent Progress and Future Challenges. ACS Sustainable Chemistry and Engineering, 2022, 10, 16476-16502.	6.7	8
4530	Surface Plasmon Resonance-Triggered Local Electromagnetic Field Advances Photocatalytic and Photoelectrochemical Performance of Plasmonic Metal/Semiconductor Composite. Journal of Physical Chemistry C, 2023, 127, 248-255.	3.1	1
4531	Controllable adsorption groups on amine-functionalized carbon nitride for enhanced photocatalytic CO2 reduction. Chemical Engineering Journal, 2023, 455, 140746.	12.7	8
4532	2D, Metalâ€Free Electrocatalysts for the Nitrogen Reduction Reaction. Advanced Functional Materials, 2023, 33, .	14.9	17
4533	Metal-oxide clusters with semiconductive heterojunction counterparts. , 2023, 2, 9140020.		9
4534	Graphitic Carbon Nitride/Ni Doped Copper Hydroxide Nanocomposite Based Electrochemical Sensor for Trace Level Detection of Ponceau 4R Food Colorant. Journal of the Electrochemical Society, 2022, 169, 127513.	2.9	1
4535	Non-Metal-Doped Porous Carbon Nitride Nanostructures for Photocatalytic Green Hydrogen Production. International Journal of Molecular Sciences, 2022, 23, 15129.	4.1	22
4536	Lewis acid molten salts prepared Ti3C2Cl2 MXenes assembling with g-C3N4 nanosheets for enhanced photocatalytic H2 evolution. Ceramics International, 2023, 49, 13042-13049.	4.8	6
4537	Microwave-assisted Synthesis, Characterization, Photocatalytic Degradation of Antibiotics, and Fluorometric Selective Sensing Activity of g-C3N4 Supported CuO Composites. Journal of Fluorescence, 0, , .	2.5	1
4538	Investigation of transition metal-doped graphitic carbon nitride for MO dye degradation. Diamond and Related Materials, 2023, 132, 109648.	3.9	5
4539	Interaction of Graphitic Carbon Nitride with Cell Membranes: Probing Phospholipid Extraction and Lipid Bilayer Destruction. Environmental Science & Technology, 2022, 56, 17663-17673.	10.0	11
4540	A general interfacial-energetics-tuning strategy for enhanced artificial photosynthesis. Nature Communications, 2022, 13, .	12.8	12
4541	Facile construction of carbon doped carbon nitride tube with increased π-electron density for highly efficient hydrogen production. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 660, 130872.	4.7	5
4542	zeolite-Y/g-C3N4 composite with enhanced photocatalytic activity for dye degradation and nitrogen fixation. Research on Chemical Intermediates, 2023, 49, 1147-1164.	2.7	1

#	Article	IF	CITATIONS
4543	Recent Advances in Nanozymes for Bacteria-Infected Wound Therapy. International Journal of Nanomedicine, 0, Volume 17, 5947-5990.	6.7	13
4544	Theoretical Study on two Direct Zâ€scheme Heterostructure Photocatalysts for Efficient Photohydrolysis and Catalytic Oxidation of Formaldehyde, CdS/BiOF and g ₃ N ₄ /BiOF. ChemistrySelect, 2022, 7, .	1.5	0
4545	Effective Low-Energy Hamiltonians and Unconventional Landau-Level Spectrum of Monolayer C3N. Nanomaterials, 2022, 12, 4375.	4.1	1
4546	Ethane dehydrogenation over the g-C3N4 supported metal single-atom catalysts to enhance reactivity and coking-resistance ability. Nano Research, 2023, 16, 6142-6152.	10.4	4
4547	Is Photocatalysis the Next Technology to Produce Green Hydrogen to Enable the Net Zero Emissions Goal?. Global Challenges, 2023, 7, .	3.6	9
4548	Environmentally friendly supermolecule self-assembly preparation of S-doped hollow porous tubular g-C3N4 for boosted photocatalytic H2 production. Ceramics International, 2023, 49, 11989-11998.	4.8	33
4549	Two-dimensional Ga2S3/g-C3N4 heterojunction composites with highly enhanced photocatalytic activity and stability. Advanced Composites and Hybrid Materials, 2023, 6, .	21.1	9
4550	Insights into periodate oxidation of antibiotics mediated by visible-light-induced polymeric carbon nitride: Performance and mechanism. Chemical Engineering Journal, 2023, 457, 141147.	12.7	15
4551	2D–2D heterostructure g-C3N4-based materials for photocatalytic H2 evolution: Progress and perspectives. Frontiers in Chemistry, 0, 10, .	3.6	2
4552	Engineering g-C3N4 based materials for advanced photocatalysis: Recent advances. Green Energy and Environment, 2024, 9, 166-197.	8.7	9
4553	Plasmonic Titanium Nitride/g-C ₃ N ₄ with Inherent Interface Facilitates Photocatalytic CO ₂ Reduction. ACS Applied Energy Materials, 2023, 6, 89-98.	5.1	6
4554	The Construction of Phosphorus-Doped g-C3N4/Rh-Doped SrTiO3 with Type-II Band Alignment for Efficient Photocatalytic Hydrogen Evolution. Nanomaterials, 2022, 12, 4428.	4.1	3
4555	Vanillin cross-linked hydrogel membranes interfacial reinforced by carbon nitride nanosheets for enhanced antibacterial activity and mechanical properties. Chinese Chemical Letters, 2023, 34, 108071.	9.0	7
4556	Architecture and Kinetic Studies of Photocatalytic H ₂ O ₂ Generation and H ₂ Evolution through Regulation of Spatial Charge Transfer via Z-Scheme Path over a (001) Facet Engineered TiO ₂ @MXene/B- <i>g</i> C ₃ N ₄ Ternary Hybrid Langmuir 2023 39 957-971	3.5	19
4557	Fabrication and Enhanced Visible-Light Photocatalytic H2 Production of B-doped N-deficient g-C3N4/CdS Hybrids with Robust 2D/2D Hetero-Interface Interaction. Nanotechnology, 0, , .	2.6	0
4558	Boosting photocatalytic oxidation of organic pollutants on Z-scheme carbon nitride / Ag ₃ PO ₄ / Ag composites by coupling with carbon nanotubes. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	3.3	0
4559	Applications of Spent Lithium Battery Electrode Materials in Catalytic Decontamination: A Review. Catalysts, 2023, 13, 189.	3.5	1
4560	2D Zinc Oxide \hat{a} €" Synthesis, Methodologies, Reaction Mechanism, and Applications. Small, 2023, 19, .	10.0	22
#	Article	lF	CITATIONS
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4561	Utilizing Toray Paper as a Metalâ€Free, High Surface Area Electrode for Photosystem I–Driven Mediated Electron Transfer. Energy Technology, 2023, 11, .	3.8	2
4562	Graphitic carbon nitride-based nanostructures as emergent catalysts for carbon monoxide (CO) oxidation. Green Chemistry, 2023, 25, 1276-1310.	9.0	34
4563	Melamine-phytic acid derived supramolecular synthesis of g-C3N4 for enhanced solar hydrogen evolution. International Journal of Hydrogen Energy, 2023, 48, 13097-13108.	7.1	7
4564	Highly sensitive detection of okadaic acid in seawater by magnetic solid-phase extraction based on low-cost metal/nitrogen-doped carbon nanotubes. Journal of Chromatography A, 2023, 1689, 463772.	3.7	7
4565	High-temperature stabilized defect pyrochlore Bi _{2â^'<i>x</i>} Fe _{<i>x</i>} WO ₆ nanostructures and their effects on photocatalytic water remediation and photo-electrochemical oxygen evolution kinetics. Catalysis Science and Technology, 2023, 13, 1409-1424.	4.1	3
4566	Dual-strategy modification on g-C3N4 for highly efficient inactivation of Microcystis aeruginosa under visible light. , 2022, 1, 316-324.		1
4567	The effect of Ag NPs and C3N5 on the third-order nonlinear optical responses of the nano Zn–Cu–Cr–LDH. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	1
4568	Thermal chemical vapor deposition of layered carbon nitride films under a hydrogen gas atmosphere. CrystEngComm, 2023, 25, 877-883.	2.6	3
4569	Photochemical Synthesis of Porous Triazineâ€Heptazineâ€Based Carbon Nitride Homojunction for Efficient Overall Water Splitting. ChemSusChem, 2023, 16, .	6.8	9
4570	2D Transition Metal Dichalcogenides for Photocatalysis. Angewandte Chemie - International Edition, 2023, 62, .	13.8	65
4571	Photocatalytic Degradation of Methylene Blue by ZnO/g-C ₃ N ₄ . Hans Journal of Chemical Engineering and Technology, 2023, 13, 17-25.	0.0	0
4572	Synergetic Adsorption–Photocatalytic Activated Fenton System via Iron-Doped g-C3N4/GO Hybrid for Complex Wastewater. Catalysts, 2023, 13, 88.	3.5	0
4573	ZIF-derived non-bonding Co/Zn coordinated hollow carbon nitride for enhanced removal of antibiotic contaminants by peroxymonosulfate activation: Performance and mechanism. Applied Catalysis B: Environmental, 2023, 325, 122401.	20.2	29
4574	Favoring the generation and utilization of photocatalytic reactive species over g-C ₃ N ₄ nanosheets by controllable edge C modification. Sustainable Energy and Fuels, 0, , .	4.9	1
4575	Recent Advances in g-C3N4-Based Photocatalysts for NOx Removal. Catalysts, 2023, 13, 192.	3.5	3
4576	Hydrogen evolution performance of Co-MOF/H-g-C ₃ N ₄ composite catalysts with different morphologies under visible light. New Journal of Chemistry, 2023, 47, 3703-3713.	2.8	3
4577	Growth of Robust Carbon Nitride Films by Double Crystallization with Exceptionally Boosted Electrochemiluminescence for Visual DNA Detection. Advanced Optical Materials, 2023, 11, .	7.3	9
4579	2D Transition Metal Dichalcogenides for Photocatalysis. Angewandte Chemie, 2023, 135, .	2.0	3

#	Article	IF	CITATIONS
4580	Charge Steering in Heterojunction Photocatalysis: General Principles, Design, Construction, and Challenges. Small Science, 2023, 3, .	9.9	11
4581	Defectâ€Induced Activity Enhancement of Selfâ€Exfoliated Carbon Nitrides for Solar Hydrogen Evolution. ChemCatChem, 2023, 15, .	3.7	2
4582	In-situ synthesis of novel dual S-scheme AgI/Ag6Mo7O24/g-C3N4 heterojunctions with tandem structure for photocatalytic degradation of organic pollutants. Chemosphere, 2023, 318, 137812.	8.2	9
4583	Fabrication of black NiO/Sr2FeTaO6 heterojunctions with rapid interface charge transfer for efficient photocatalytic hydrogen evolution. Frontiers in Chemistry, 0, 10, .	3.6	1
4584	Recent advances in metal-free CDs/g-C3N4 photocatalysts: Synthetic strategies, mechanism insight, and applications. Journal of Materials Science and Technology, 2023, 150, 11-26.	10.7	11
4585	Microwave-assisted chemical modification of g-C3N4 for photoinduced processes: organic degradation, hydrogen production and selective oxidation of alcohols. Research on Chemical Intermediates, 0, , .	2.7	0
4586	Synthesis of Carbon Nitride Supported POMâ€based IL for Deep Oxidative Desulfurization of Dibenzothiophene. ChemistrySelect, 2023, 8, .	1.5	0
4587	Rationally Designed CeO ₂ Nanosheets over Co ₉ S ₈ Nanoparticles form Sâ€Scheme Heterojunction for Efficient Hydrogen Production. Advanced Sustainable Systems, 2023, 7, .	5.3	3
4588	Preparation and characterization of Ce-MOF/g-C3N4 composites and evaluation of their photocatalytic performance. Ceramics International, 2023, 49, 24428-24441.	4.8	13
4589	Synergistic effects of holey nanosheet and sulfur-doping on the photocatalytic activity of carbon nitride towards NO removal. Chemosphere, 2023, 316, 137813.	8.2	12
4590	Synthesis and applications of graphitic carbon nitride (g-C3N4) based membranes for wastewater treatment: A critical review. Heliyon, 2023, 9, e12685.	3.2	40
4591	Enhanced Nitric Oxide Sensing Performance of Conjugated Polymer Films through Incorporation of Graphitic Carbon Nitride. International Journal of Molecular Sciences, 2023, 24, 1158.	4.1	3
4592	Construction of a g-C ₃ N ₄ -driven photocatalytic system for boosted biomass-derived alcohol oxidation: a promising route towards sustainable biomass valorization. Catalysis Science and Technology, 2023, 13, 940-957.	4.1	8
4593	Electrochemical Determination of Hydrogen Peroxide by High Proportion of Pyridinic Nitrogen Doped Carbon loaded Nano-copper Sheets. New Journal of Chemistry, 0, , .	2.8	0
4594	Doping Engineering in Polymeric Carbon Nitride for Lowâ€Onsetâ€Potential Photoelectrochemical Applications. ChemistrySelect, 2023, 8, .	1.5	2
4595	Two-dimensional H– and F–BX (X = O, S, Se, and Te) photocatalysts with ultrawide bandgap and enhanced photocatalytic performance for water splitting. RSC Advances, 2023, 13, 2301-2310.	3.6	0
4596	One-pot synthesized nano-heterostructure with dual-modal catalytic ROS generation ability for high-metastatic orthotopic osteosarcoma therapy. Carbon, 2023, 204, 196-210.	10.3	5
4597	Metal halide HgI2 monolayer with auxetic property and photocatalysis application. Computational Materials Science, 2023, 219, 112007.	3.0	1

#	Article	IF	CITATIONS
4598	Photocatalytic enhancement mechanisms for novel g-C3N4/PVK nanoheterojunction. Materials Chemistry and Physics, 2023, 296, 127275.	4.0	2
4599	In situ growth g-C3N4 particles on carbon fiber cloth as flexible and easily reusable visible-light-driven photocatalysts. Materials Letters, 2023, 335, 133744.	2.6	2
4600	Adsorption, sensing and catalytic properties of the pristine C24N24 nanocage to small gas molecules: A DFT-D3 investigation. Vacuum, 2023, 209, 111798.	3.5	4
4601	Surface-assisted synthesis of biomass carbon-decorated polymer carbon nitride for efficient visible light photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2023, 634, 1014-1023.	9.4	12
4602	Effect of g-C3N4 morphology on its performance as lubricating additive for grease. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 660, 130831.	4.7	7
4603	Effects of Sm and VZn in different valence states on the magnetic property, carrier lifetime, electric dipole moment, visible light, and redox reaction of ZnO:Hi under biaxial strain. Materials Chemistry and Physics, 2023, 297, 127362.	4.0	1
4604	An all-organic S-scheme heterojunction containing donor–acceptor type conjugated polymer and C3N4 nanosheets assembled via π–π interaction for photocatalytic H2 generation. Applied Surface Science, 2023, 615, 156414.	6.1	22
4605	Sustainable and mild exfoliation of bulk crystalline carbon nitride into ultrathin nanosheets via ion-exchange in pure-water. Carbon, 2023, 205, 76-85.	10.3	6
4606	Visible-light-driven photocatalytic hydrogen production on defective, sulfur self-doped g-C3N4 nanofiber fabricate via electrospinning method. Journal of Environmental Chemical Engineering, 2023, 11, 109318.	6.7	7
4607	Tunable electronic and photocatalytic properties of double-walled Î ³ -GeSe nanotubes: From infrared to visible absorption. Physica E: Low-Dimensional Systems and Nanostructures, 2023, 148, 115612.	2.7	2
4608	2D/2D BiOIO3/g-C3N4 S-scheme hybrid heterojunction with face-to-face interfacial contact for effective photocatalytic H2 production and norfloxacin degradation. Journal of Materials Science and Technology, 2023, 148, 19-30.	10.7	22
4609	N-doped porous carbon coated g-C3N4/ g-C3N4 heterojunction for polysulfide restriction and catalytic conversion towards enhanced lithium-sulfur batteries. Journal of Alloys and Compounds, 2023, 940, 168772.	5.5	11
4610	0D/2D Schottky junction synergies with 2D/2D S-scheme heterojunction strategy to achieve uniform separation of carriers in 0D/2D/2D quasi CNQDs/TCN/ZnIn2S4 towards photocatalytic remediating petroleum hydrocarbons polluted marine. Applied Catalysis B: Environmental, 2023, 325, 122387.	20.2	24
4611	Comprehensive Review on g-C3N4-Based Photocatalysts for the Photocatalytic Hydrogen Production under Visible Light. International Journal of Molecular Sciences, 2023, 24, 346.	4.1	16
4612	g-C ₃ N ₄ -Loaded Carbon Nanofiber for Efficient Photocatalytic Hydrogen Production. Integrated Ferroelectrics, 2023, 231, 70-77.	0.7	2
4613	Hybrid Nanogelsâ€Based Printable Tattoos Inspired by Lady Costume from Tang Dynasty for Monitoring Solar UV Radiation. Advanced Optical Materials, 2023, 11, .	7.3	5
4614	High-efficiency hydrogen evolution reaction photocatalyst for water splitting of Type-II β-AsP/g-C3N4 van der Waals heterostructure. International Journal of Hydrogen Energy, 2023, 48, 10051-10061.	7.1	10
4615	Magnetically retrievable graphitic carbon nitride-based nanocomposites. , 2023, , 305-358.		0

ARTICLE IF CITATIONS Flame retardancy and thermal properties of graphitic carbon nitride-based materials., 2023, , 207-224. 0 4616 Perovskite-based nanomaterials for CO2 conversion., 2023, , 181-209. Generation Mechanism of the Defects in g-C3N4 Synthesized in N2 Atmosphere and the Method for 4618 3.5 6 Improving Photocatalysis Activity. Catalysts, 2023, 13, 269. S-doped C₃N₅ derived from thiadiazole for efficient photocatalytic hydrogen 4619 24 evolution. Journal of Materials Chemistry A, 2023, 11, 12837-12845. Nano-engineered composites based on carbon nitride as potential agents for the remediation of water 4620 2 with micropollutants., 2023, , 87-115. Synergistic effect of exfoliation and substitutional doping in graphitic carbon nitride for photocatalytic H₂O₂ production and H₂ generation: a 4.1 comparison and kinetic study. Catalysis Science and Technology, 2023, 13, 1448-1458. Flexible polymeric films containing nanoparticles of visible-light absorbing TiO2 and their 4622 0 applications as photo-induced self-cleaning and antimicrobial surfaces., 2023, , 413-433. Oxidation of emerging organic contaminants by in-situ H2O2 fenton system. Green Energy and Environment, 2024, 9, 417-434. 4623 8.7 Photocatalytic degradation and bacterial disinfection applications of graphitic carbon nitride., 2023, 4624 0 , 157-206. Photocatalytic water splitting and reduction of CO2., 2023, , 111-155. Triazine-free polyimide for photocatalytic hydrogen production. International Journal of Hydrogen 4626 7.1 5 Energy, 2023, 48, 15967-15974. Integrated interfacial design of covalent organic framework photocatalysts to promote hydrogen 12.8 evolution from water. Nature Communications, 2023, 14, . Preparation and photocatalytic degradation of Sulfamethoxazole by g-C₃N₄ 4628 3.3 1 nano composite samples. Reviews on Advanced Materials Science, 2023, 62, . Cobalt complexes with multi-dentate N-donor ligands: Redox, X-ray photoelectron spectroscopic and theoretical study. Results in Chemistry, 2023, 5, 100818. Ball-milled Ni2P/g-C3N4 for improved photocatalytic hydrogen production. International Journal of 4630 7.1 8 Hydrogen Energy, 2023, 48, 15460-15472. Recent Clay-Based Photocatalysts for Wastewater Treatment. Separations, 2023, 10, 77. 2.4 Facile Synthesis of Poly(o-anisidine)/Graphitic Carbon Nitride/Zinc Oxide Composite for 4632 3.53 Photo-Catalytic Degradation of Congo Red Dye. Catalysts, 2023, 13, 239. Robust Carbon Nitride Homojunction Photoelectrode for Solar-Driven Water Splitting. ACS Applied Materials & amp; Interfaces, 2023, 15, 6726-6734.

#	Article	IF	CITATIONS
4634	Afterglow Electrochemiluminescence from Nitrogen-Deficient Graphitic Carbon Nitride. Analytical Chemistry, 2023, 95, 2917-2924.	6.5	10
4635	Mechanism of Eu(III), La(III), Nd(III), and Th(IV) removal by g-C3N4 based on spectroscopic analyses and DFT theoretical calculations. Research on Chemical Intermediates, 0, , .	2.7	1
4636	Single-site bipyridine cobalt complexes covalently embedded into graphitic carbon nitride with excellent photocatalytic activity and selectivity towards CO ₂ reduction. Nanoscale, 2023, 15, 5036-5043.	5.6	1
4637	2-Dimensional g-C3N4 nanosheets modified LATP-based "Polymer-in-Ceramic―electrolyte for solid-state lithium batteries. Journal of Alloys and Compounds, 2023, 942, 169064.	5.5	6
4638	Ultrathin porous graphitic carbon nitride from recrystallized precursor toward significantly enhanced photocatalytic water splitting. Journal of Colloid and Interface Science, 2023, 637, 271-282.	9.4	38
4639	Ultrathin Pd metallenes as novel co-catalysts for efficient photocatalytic hydrogen production. Applied Surface Science, 2023, 618, 156597.	6.1	3
4640	Covalent organic framework films grown on spongy g-C3N4 for efficient photocatalytic hydrogen production. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 439, 114590.	3.9	2
4641	Facile synthesis of NiO-loaded g-C3N4 heterojunction photocatalyst for efficient photocatalytic degradation of 4-nitrophenol under visible light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 439, 114576.	3.9	39
4642	Recent advances on g-C ₃ N ₄ -based Z-scheme photocatalysts for organic pollutant removal. Catalysis Science and Technology, 2023, 13, 2877-2898.	4.1	10
4643	Interfacial Chemical Bond Engineering in a Direct Z-Scheme g-C ₃ N ₄ /MoS ₂ Heterojunction. ACS Applied Materials & Interfaces, 2023, 15, 11731-11740.	8.0	19
4644	A unique and well-designed 2D graphitic carbon nitride with sponge-like architecture for enhanced visible-light photocatalytic activity. Journal of Materials Science and Technology, 2023, 159, 99-111.	10.7	5
4645	Engineering high-coordinated cerium single-atom sites on carbon nitride nanosheets for efficient photocatalytic amine oxidation and water splitting into hydrogen. Chemical Engineering Journal, 2023, 462, 142084.	12.7	21
4646	Dual morphology ZnCo2O4 coupled graphitic carbon nitride: An efficient electro-catalyst for electrochemical H2O2 production and methanol oxidation reaction. Electrochimica Acta, 2023, 447, 142161.	5.2	1
4647	Ultrasensitive Determination of L-Cysteine with g-C3N4@CdS-Based Photoelectrochemical Platform. Symmetry, 2023, 15, 896.	2.2	2
4648	Covalent Triazine Frameworks Decorated with Pyridine-Type Carbonitride Moieties: Enhanced Photocatalytic Hydrogen Evolution by Improved Charge Separation. Polymers, 2023, 15, 1781.	4.5	1
4649	Efficiently photocatalysis activation of peroxydisulfate by Fe-doped g-C3N5 for pharmaceuticals and personal care products degradation. Environmental Pollution, 2023, 322, 121182.	7.5	8
4650	SeleniumË—decorated nitrogen-rich honeycomb-like g-C3N4 as anode materials for lithium ion batteries. Materials Chemistry and Physics, 2023, 298, 127463.	4.0	1
4651	Adjacent diatomic Cu1N3/Mo1S2 entities decorated carbon nitride for markedly enhanced photocatalytic hydrogen generation. Chemical Engineering Journal, 2023, 463, 142470.	12.7	2

#	Article	IF	CITATIONS
4652	Carbon quantum dots (CQDs) mediated Z-scheme g–C3N4–CQDs/BiVO4 heterojunction with enhanced visible light photocatalytic degradation of Paraben. Chemosphere, 2023, 323, 138248.	8.2	19
4653	Cu(II) harmonize g-C3N4 and black phosphorous together under the interaction of surface charges to form unconventional type-II photocatalyst BPs/Cu/CNs with attractive performance. Chemical Engineering Journal, 2023, 463, 142500.	12.7	4
4654	Synthesis of folic acid loaded g-C3N4/Ag2S nanohybrids for near infrared light mediated photothermal ablation of breast cancer cells. Diamond and Related Materials, 2023, 135, 109785.	3.9	3
4655	A universal numerical evaluation strategy for photocatalysts based on the photoelectron transfer (PET) restriction effect: A review. Chemical Engineering Journal, 2023, 463, 142421.	12.7	5
4656	Metal derivative (MD)/g-C3N4 association in hydrogen production: A study on the fascinating chemistry behind, current trend and future direction. Journal of Energy Chemistry, 2023, 80, 562-583.	12.9	8
4657	Constructing C–O bridged CeO2/g-C3N4 S-scheme heterojunction for methyl orange photodegradation:Experimental and theoretical calculation. Journal of Environmental Management, 2023, 335, 117608.	7.8	8
4658	A photo-enzyme coupling catalysis system with high enzyme loading for the efficient degradation of BPA in water. Separation and Purification Technology, 2023, 313, 123392.	7.9	7
4659	Surface tuning of nanostructured graphitic carbon nitrides for enhanced electrocatalytic applications: a review. Materials Today Chemistry, 2023, 30, 101523.	3.5	8
4660	Construction of Fe3S4/g-C3N4 composites as photo-Fenton-like catalysts to realize high-efficiency degradation of pollutants. Ceramics International, 2023, 49, 16070-16079.	4.8	9
4661	Photocatalytic ipso-nitration of bromophenol intermediates on Ag/g-C3N4. Sustainable Chemistry and Pharmacy, 2023, 33, 101077.	3.3	0
4662	One-step hydrothermal synthesis of Bi2WxMo1-xO6 solid solution with adjustable energy band coupling with g-C3N4: 2D/2D Z-scheme heterojunction for enhanced photocatalytic HCHO degradation under indoor conditions. Separation and Purification Technology, 2023, 314, 123551.	7.9	6
4663	Recent progress on the development of g-C3N4 based composite material and their photocatalytic application of CO2 reductions. Journal of Environmental Chemical Engineering, 2023, 11, 109727.	6.7	15
4664	Carbon nitride – PVDF photocatalytic membranes for visible-light degradation of venlafaxine as emerging water micropollutant. Catalysis Today, 2023, 418, 114042.	4.4	7
4665	Enhanced photocatalytic activity of MIL-88 a impregnated with Ag3PO4/GCN for the degradation of diclofenac sodium. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 292, 116453.	3.5	5
4666	Numerous defects induced by exfoliation of boron-doped g-C3N4 towards active sites modulation for highly efficient solar-to-fuel conversion. Materials Today Sustainability, 2023, 22, 100359.	4.1	5
4667	Photodegradation of cytostatic drugs by g-C3N4: Synthesis, properties and performance fitted by selecting the appropriate precursor. Catalysis Today, 2023, 418, 114068.	4.4	5
4668	Visible-light photocatalysis degradation of enrofloxacin by crawfish shell biochar combined with g-C3N4: Effects and mechanisms. Journal of Environmental Chemical Engineering, 2023, 11, 109693.	6.7	6
4669	Biochar doped carbon nitride to enhance the photocatalytic hydrogen evolution through synergy of nitrogen vacancies and bridging carbon structure: Nanoarchitectonics and first-principles calculation. Carbon, 2023, 209, 117988.	10.3	8

		CITATION REPORT		
#	Article		IF	CITATIONS
4670	Hydroxyl-rich carbon nitride microspheres with carbon doping for visible-light driven photocatalytic degradation of endocrine disrupting chemicals. Materials Today Sustainability, 2023, 22, 100347.		4.1	3
4671	Environmentally friendly self-assembly strategy to fabricate novel S and O co-doped carbon nitride aerogel photocatalyst with improved photocatalytic degradation capability. Journal of Environment Chemical Engineering, 2023, 11, 109795.	al	6.7	1
4672	Magnetic template-assisted construction of 2D PCN/TiO2 heterostructures for efficient photocatalytic hydrogen generation. Applied Surface Science, 2023, 623, 157131.		6.1	9
4673	Construction of Z-scheme É'-Fe2O3/graphene/Bi2O2S heterojunction for visible-light-driven photocatalytic CO2 conversion. Separation and Purification Technology, 2023, 314, 123607.		7.9	13
4674	In situ growth of N-doped carbon nanotubes in Fe-Nx/Fe2O3/Fe3O4-encapsulated carbon sheets fo efficient bifunctional oxygen catalysis. Applied Catalysis B: Environmental, 2023, 327, 122443.	r	20.2	11
4675	Construction of 2D/2D Bi12O17Cl2/Zn-HMT Z-scheme heterojunction for efficient photocatalytic tetracycline hydrochloride degradation and Cr(â¥) reduction. Journal of Alloys and Compounds, 2 947, 169469.	023,	5.5	7
4676	Efficient dye degradation in the presence of reducing agent and bactericidal behavior with in silico molecular docking of z-scheme P3HT/g-C3N4 doped CuO heterojunction. Surfaces and Interfaces, 2 38, 102804.	2023,	3.0	3
4677	Construction of tubular g-C3N4/TiO2 S-scheme photocatalyst for high-efficiency degradation of organic pollutants under visible light. Journal of Alloys and Compounds, 2023, 947, 169659.		5.5	17
4678	Constructing C-rich polymeric carbon nitride homojunctions for enhanced storage capacity of photo-rechargeable batteries. Electrochimica Acta, 2023, 452, 142281.		5.2	1
4679	Simultaneous polarization engineering and selectivity regulation achieved using polymeric carbon nitride for promoting NOx photo-oxidation. Applied Catalysis B: Environmental, 2023, 330, 122582		20.2	5
4680	Robust Fe-N4 center with optimized metal-support interaction for efficient pollutant degradation by Fenton-like reaction. Applied Catalysis B: Environmental, 2023, 331, 122706.	/	20.2	8
4681	Highly nitrogen-doped carbon nanosheets derived from Cu-melamine coordination framework for fast lithium and sodium storage. Materials Research Bulletin, 2023, 164, 112258.		5.2	1
4682	A high-cyano groups-content amorphous-crystalline carbon nitride isotype heterojunction photocatalyst for high-quantum-yield H2 production and enhanced CO2 reduction. Applied Catalys Environmental, 2023, 331, 122733.	is B:	20.2	52
4683	A novel peroxymonosulfate activation process by single-atom iron catalyst from waste biomass for efficient singlet oxygen-mediated degradation of organic pollutants. Journal of Hazardous Materials 2023, 453, 131333.		12.4	10
4684	Mechanistic insights into efficient photocatalytic H2O2 production of 2D/2D g-C3N4/In2S3 photocatalyst by tracking charge flow direction. Chemical Engineering Journal, 2023, 462, 142038.		12.7	19
4685	A sustainable bioeconomy approach for improved biodiesel production using photocatalytic GO@C assisted cultivation of Chlorosarcinopsis sp. MAS04. Biomass and Bioenergy, 2023, 173, 106802.	N	5.7	0
4686	One-pot self-assembled two-dimensional Ni/Ni3C/C3N4 nanosheets with highly efficient glucose oxidation for fuel cell and sensing applications. Materials Today Communications, 2023, 35, 10601	1.	1.9	0
4687	SERS-based recyclable immunoassay mediated by 1T-2H mixed-phase magnetic molybdenum disulfi probe and 2D graphitic carbon nitride substrate. Biosensors and Bioelectronics, 2023, 227, 115160	de).	10.1	14

ARTICLE IF CITATIONS Investigation on the photocatalytic property of direct Z-type van der Waals g-C3N4/AIN 4688 1.9 5 heterojunction and its mechanism. Chemical Physics, 2023, 571, 111913. Improved room temperature ethanol vapors sensing using silver nanoparticles decorated graphitic 4689 2.6 carbon nitride (Ag-gCN) nanocomposite. Materials Letters, 2023, 342, 134343. Ti₃C₂T_x/g ₃N₄/CNTs Ternary Hybrid Film for Allâ€solid Flexible Supercapacitors and Superb Bandwidth Electromagnetic Wave Absorber. 4690 2 2.8 ChemNanoMat, 2023, 9, . Internal electric field in carbon nitride-based heterojunctions for photocatalysis. Nano Energy, 2023, 108, 108228. g-C3N4 as Photocatalyst for the Removal of Metronidazole Antibiotic from Aqueous Matrices under 4692 3.5 1 Lab and Pilot Scale Conditions. Catalysts, 2023, 13, 254. Photocatalytic oxygen reduction reaction over copper-indium-sulfide modified polymeric carbon nitride S-scheme heterojunction photocatalyst. Journal of Catalysis, 2023, 419, 9-18. 6.2 Hydrothermal supramolecular preorganization synthesis of multi-morphological g-C3N4/Fe2O3 for photocatalytic removal of indoor formaldehyde under visible light. Journal of Environmental 4694 6.7 6 Chemical Engineering, 2023, 11, 109395. In-situ CdS nanowires on g-C3N4 nanosheet heterojunction construction in 3D-Optofluidic microreactor for the photocatalytic green hydrogen production. International Journal of Hydrogen Energy, 2023, 48, 15406-15420. 7.1 B-Doped g-C3N4/Black TiO2 Z-Scheme Nanocomposites for Enhanced Visible-Light-Driven Photocatalytic 4696 4.1 1 Performance. Nanomaterials, 2023, 13, 518. Gamma irradiation-induced elemental O/N co-doping and structural reinforcement in g-C3N4 6.1 photo-electrocatalyst. Applied Surface Science, 2023, 616, 156615. A technological approach using a metal-free immobilized photocatalyst for the removal of 4698 7 12.7 pharmaceutical substances from urban wastewaters. Chemical Engineering Journal, 2023, 459, 141617. Nanohybrids: A Burgeoning Need to Cater Câ[^]C and Câ[^]O Bonds Building in Organic Synthesis. 4699 1.5 ChemistrySelect, 2023, 8, . Photocatalytic-Driven Self-Degradation of Polyester Microplastics Under Solar Light. Journal of 4700 5.0 6 Polymers and the Environment, 2023, 31, 2415-2423. Rapid photocatalytic degradation of tetrabromobisphenol A using synergistic p-n/Z-scheme dual heterojunction of black phosphorus nanosheets/FeSe2/g-C3N4. Separation and Purification 4701 Technology, 2023, <u>311, 123359</u>. Recent advances in various processes for clean and sustainable hydrogen production. Nano 4702 12 3.5Structures Nano Objects, 2023, 33, 100948. Graphitic carbon nitride (g-C3N4) based materials: current application trends in health and other 4703 multidisciplinary fields. International Nano Letters, 2023, 13, 223-234. Carbon Dots Based Photoinduced Reactions: Advances and Perspective. Advanced Science, 2023, 10, . 4704 11.2 20 In Situ Photo-Fenton-Like Tandem Reaction for Selective Gluconic Acid Production from Glucose 4705 11.2 Photo-Oxidation. ACS Catalysis, 2023, 13, 2637-2646.

ARTICLE IF CITATIONS # Overview on Photoreforming of Biomass Aqueous Solutions to Generate H2 in the Presence of 4706 2.4 6 g-C3N4-Based Materials. ChemEngineering, 2023, 7, 11. Biohybrid Moleculeâ€Based Photocatalysts for Water Splitting Hydrogen Evolution. ChemPlusChem, 4707 2.8 2023, 88, . Two-dimensional Janus AsXY (X = Se, Te; Y = Br, I) monolayers for photocatalytic water splitting. 1.5 4709 4 European Physical Journal B, 2023, 96, . 3D-crumpled graphitic carbon nitride achieving promoted visible-light-driven molecular oxygen 4711 8.2 activation for phenol degradation. Chemosphere, 2023, 321, 138107. Elemental Doping Boosts Charge-Transfer Excitonic States in Polymeric Photocatalysts for Selective 4712 2 Oxidation Reaction. , 2023, 1, 40-48. Synergetic contribution of carbon and oxygen co-doped carbon nitride nanosheets as metal-free photocatalysts for wastewater purification. Results in Engineering, 2023, 17, 100956. 4713 5.1 Thin lamellar Li7La3Zr2O12 solid electrolyte with g-C3N4 as grain boundary modifier for 4714 7.8 5 high-performance all-solid-state lithium battery. Journal of Power Sources, 2023, 562, 232784. Covalent Organic Framework/g-C₃N₄ van der Waals Heterojunction toward 4715 4.0 H₂ Production. Inorganic Chemistry, 2023, 62, 3271-3277. Theoretical Study on Zigzag Boron Nitride Nanowires. ChemPhysChem, 2023, 24, . 2.1 2 4716 Frontier nanoarchitectonics of graphitic carbon nitride based plasmonic photocatalysts and 4717 photoelectrocatalysts for energy, environment and organic reactions. Materials Chemistry Frontiers, 2023, 7, 1197-1247. Twisty Câ€TiO₂/PCN Sâ€Scheme Heterojunction with Enhanced nâ†'i€â€‰* Electronic Excitation for 10.0 4718 21 Promoted Piezoâ€Photocatalytic Effect. Small, 2023, 19, . Promoted photocatalytic hydrogen evolution via double-electron migration in Ag@g-C3N4 4719 heterojunction. International Journal of Hydrogen Energy, 2023, 48, 17370-17382 Thermal annealing-enhanced interfacial charge transfer in g-C3N4/rectorite composite for boosted 4720 6.7 2 peroxymonosulfate activation. Journal of Environmental Chemical Engineering, 2023, 11, 109491. Three-Dimensional Carbon Foam Modified with Mg₃N₂ for Ultralong Cyclability of a Dendrite-Free Li Metal Anode. ACS Applied Materials & amp; Interfaces, 2023, 15, 9421-9430. 4721 8.0 Recent advances in the use of nitrogen-doped carbon materials for the design of noble metal 4722 18.8 23 catalysts. Coordination Chemistry Reviews, 2023, 481, 215053. Mesoporous single-crystal-based TiO2 microspheres decorated by carbon nitride for obviously improved photocatalytic performance and recyclability. Inorganic Chemistry Communication, 2023, 3.9 150, 110524. Carbon-Based Nanomaterials for Catalytic Wastewater Treatment: A Review. Molecules, 2023, 28, 1805. 4724 3.8 15 Efficient oxygen reduction using a polymorphic tungsten catalyst. Cell Reports Physical Science, 2023, 5.6 4, 101288.

#	Article	IF	CITATIONS
4726	Efficient Photocatalytic Hydrogen Evolution by Modulating Excitonic Effects in Niâ€Intercalated Covalent Organic Frameworks. Advanced Energy Materials, 2023, 13, .	19.5	42
4727	Through Space Sigma Donation π Acceptor Assisted Photocatalytic Degradation of Ciprofloxacin on TCPP Supported g ₃ N ₄ . ChemistrySelect, 2023, 8, .	1.5	5
4728	Ag–Pt bimetallic composite supported on defective C3N nanosheets for plasmon hot electron-mediated photocatalytic H2 evolution. International Journal of Hydrogen Energy, 2023, 48, 18670-18684.	7.1	11
4730	Photocatalytic Composite Sr ₂ MgSi ₂ O ₇ :(Eu,) Tj ETQq1 1 0.784314 rgBT / Phosphors and Photocatalysts on Round-the-Clock Photocatalytic Degradation of Methylene Blue. ,	Overlock :	10 Tf 50 63 7
4731	Visible-light photoredox catalysis with organic polymers. Chemical Physics Reviews, 2023, 4, .	5.7	3
4732	Single-Step Synthesis of Graphitic Carbon Nitride Nanomaterials by Directly Calcining the Mixture of Urea and Thiourea: Application for Rhodamine B (RhB) Dye Degradation. Nanomaterials, 2023, 13, 762.	4.1	9
4733	Ni2P-Modified P-Doped Graphitic Carbon Nitride Hetero-Nanostructures for Efficient Photocatalytic Aqueous Cr(VI) Reduction. Catalysts, 2023, 13, 437.	3.5	3
4734	DFT-Based Study for the Enhancement of CO ₂ Adsorption on Metal-Doped Nitrogen-Enriched Polytriazines. ACS Omega, 2023, 8, 8876-8884.	3.5	7
4735	Heterogeneous vs homogenous photocatalysis: what dominates in the degradation of methyl orange and methylene blue mixtures?. Photochemical and Photobiological Sciences, 0, , .	2.9	0
4736	Green Light Photoelectrocatalysis with Sulfurâ€Doped Carbon Nitride: Using Triazoleâ€Purpald for Enhanced Benzylamine Oxidation and Oxygen Evolution Reactions. Advanced Science, 2023, 10, .	11.2	14
4737	Effect of palladium chemical states on CO2 photocatalytic reduction over g-C3N4: Distinct role of single-atomic state in boosting CH4 production. Chinese Journal of Catalysis, 2023, 46, 177-190.	14.0	17
4738	Highly selective adsorption of Hg (II) from aqueous solution by three-dimensional porous N-doped starch-based carbon. Environmental Science and Pollution Research, 2023, 30, 52107-52123.	5.3	3
4739	MOF-templated fabrication of Ni@C/g-C3N4 catalyst with high-dense accessible active sites achieving dicyclopentadiene hydrogenation at ambient conditions and comprehensive mechanism insight. Chemical Engineering Journal, 2023, 462, 142141.	12.7	2
4740	Recent progress in the synthesis, characterization and photocatalytic application of energy conversion over single metal atoms decorated graphitic carbon nitride. International Journal of Hydrogen Energy, 2023, 48, 19459-19485.	7.1	14
4741	Removing unreacted amino groups in graphitic carbon nitride through residual heating to improve the photocatalytic performance. RSC Advances, 2023, 13, 6688-6698.	3.6	1
4742	Photoredox-Catalyzed Plastic Waste Conversion: Nonselective Degradation versus Selective Synthesis. ACS Catalysis, 2023, 13, 3575-3590.	11.2	36
4743	Near-Infrared Light Driven ZnIn2S4-Based Photocatalysts for Environmental and Energy Applications: Progress and Perspectives. Molecules, 2023, 28, 2142.	3.8	6
4744	Anti-defect Engineering of Crystalline g-C ₃ N ₄ Nanostructures for Efficient Photocatalytic In Situ H ₂ O ₂ Production. ACS Applied Nano Materials, 2023, 6, 3927-3935.	5.0	8

ARTICLE IF CITATIONS Review of roll-to-roll fabrication techniques for colloidal quantum dot solar cells. Journal of 3.6 2 4745 Electronic Science and Technology, 2023, 21, 100189. Review of the role of ionic liquids in two-dimensional materials. Frontiers of Physics, 2023, 18, . 4746 5.0 One-pot sequential cascade reaction for selective gluconic acid production from cellulose 4747 4.1 6 photobiorefining. Chemical Communications, 2023, 59, 3451-3454. Nhá»⁻ng tiá⁰;n bá»™ vổvá⁰t liệu xúc tác tách nưá»›c khÃ′ng chá» ©a kim loại quý. , 0, 85, 3-17. 4748 Crystallinity-defect matching relationship of g-C3N4: Experimental and theoretical perspectives. Green 4749 8.7 2 Energy and Environment, 2024, 9, 623-658. Carbonaceous Nanostructures-Based Photocatalysts for Sustainable H2 Production. Materials 0.6 Horizons, 2023, , 257-283. Insights into the Electrocatalytic Oxygen Evolution Reaction and Photocatalytic Methylene Blue Degradation of Mixed Spinel 4751 Ni_{<i>x</i>}Cu_{1â€"<i>x</i>}Fe₂O₄ Nanocomposites 3.13 Anchored at Sulfur-Doped g-C₃N₄. Journal of Physical Chemistry C, 2023, 127, 4953-4966 Quantum-Chemical Prediction of Molecular and Electronic Structure of Carbon-Nitrogen Chemical Compound with Unusual Ratio Atoms: C(N20). International Journal of Molecular Sciences, 2023, 24, 4.1 5172 4753 2D Nanomaterials-based Heterostructures for H2O Splitting and CO2 Reduction., 2023, 193-230. 0 Enhanced Photocatalytic H₂ Evolution Performance of the Type-II FeTPPCI/Porous g-C₃N₄ Heterojunction: Experimental and Density Functional Theory Studies. 4754 8.0 ĂCS Applied Materials & amp; Interfaces, Ö, , . Templateâ€Free Synthesis of Phosphorusâ€Doped gâ€C₃N₄ Microâ€Tubes with Hierarchical CoreဓShell Structure for Highâ€Efficient Visible Light Responsive Catalysis. Small, 2023, 19, 4755 10.0 13 Allochroic platinum/carbon nitride with photoactivated ohmic contact for efficient visible-light 12.7 photocatalytic hydrogen evolution. Chemical Engineering Journal, 2023, 462, 142337. Photocatalytic Activities of g-C3N4 (CN) Treated with Nitric Acid Vapor for the Degradation of 4757 2.9 4 Pollutants in Wastewater. Materials, 2023, 16, 2177. Two-dimensional g-C3N4 nanosheets-based photo-catalysts for typical sustainable processes. Chinese Chemical Letters, 2023, 34, 108306. 4758 In-situ prepare graphene/g-C3N4 D-i€-A in-plane heterojunctions for high-performance photocatalytic 4759 7.1 4 hydrogen production. International Journal of Hydrogen Energy, 2023, 48, 20290-20302. Organocatalysis with carbon nitrides. Science and Technology of Advanced Materials, 2023, 24, . 4760 6.1 Recent Developments of Light-Harvesting Excitation, Macroscope Transfer and Multi-Stage Utilization 4761 2.8 0 of Photogenerated Electrons in Rotating Disk Photocatalytic Reactor. Processes, 2023, 11, 838. Application of Hydrogen-Bonded Organic Frameworks in Environmental Remediation: Recent Advances 4762 2.4 and Future Trends. Separations, 2023, 10, 196.

#	Article	IF	CITATIONS
4763	Computational Design and Theoretical Properties of WC ₃ N ₆ , an H-Free Melaminate and Potential Multifunctional Material. Journal of the American Chemical Society, 2023, 145, 6986-6993.	13.7	6
4764	Modification of micro/nanoscaled manganese dioxide-based materials and their electrocatalytic applications toward oxygen evolution reaction. Journal of Materials Chemistry A, 2023, 11, 6688-6746.	10.3	13
4765	Facile fabrication of a visible-light stable metal-free g-C ₃ N ₄ /COF heterojunction with efficiently enhanced photocatalytic activity. New Journal of Chemistry, 2023, 47, 7538-7547.	2.8	1
4766	Poly(heptazine imide) ligand exchange enables remarkable low catalyst loadings in heterogeneous metallaphotocatalysis. Nature Communications, 2023, 14, .	12.8	17
4767	Facile Construction of Intramolecular g-CN-PTCDA Donor-Acceptor System for Efficient CO2 Photoreduction. Catalysts, 2023, 13, 600.	3.5	2
4768	Kinetic Aspects of Benzene Degradation over TiO2-N and Composite Fe/Bi2WO6/TiO2-N Photocatalysts under Irradiation with Visible Light. International Journal of Molecular Sciences, 2023, 24, 5693.	4.1	5
4769	Rapid elimination of antibiotic gemifloxacin mesylate and methylene blue over Pt nanoparticles dispersed chitosan/g-C3N4 ternary visible light photocatalyst. Environmental Science and Pollution Research, 2023, 30, 61710-61725.	5.3	2
4770	Synergistic Functionality of Dopants and Defects in Coâ€Phthalocyanine/Bâ€CN Zâ€Scheme Photocatalysts for Promoting Photocatalytic CO ₂ Reduction Reactions. Small, 2023, 19, .	10.0	10
4771	Potassium Poly(heptazine imide) Coupled with Ti ₃ C ₂ MXene-Derived TiO ₂ as a Composite Photocatalyst for Efficient Pollutant Degradation. ACS Omega, 2023, 8, 11397-11405.	3.5	3
4772	Unravelling the doping effect of potassium ions on structural modulation and photocatalytic activity of graphitic carbon nitride. RSC Advances, 2023, 13, 9168-9179.	3.6	5
4773	Visible light-driven NH2Cl activation by g-C3N4 photocatalysis producing reactive nitrogen species to degrade bisphenol A. Water Research, 2023, 235, 119889.	11.3	14
4774	Molecular assembly of carbon nitride-based composite membranes for photocatalytic sterilization and wound healing. Chemical Science, 2023, 14, 4319-4327.	7.4	2
4775	Interfacial anion vacancy engineered graphitic carbon nitride photoelectrode for promoting charge separation. Catalysis Science and Technology, 0, , .	4.1	1
4776	2D carbon nitrides: Regulating non-metal boron-doped C3N5 for elucidating the mechanism of wide pH range photocatalytic hydrogen evolution reaction. Chinese Journal of Catalysis, 2023, 47, 150-160.	14.0	15
4777	All-alike hollow nanotubes of g-C ₃ N ₄ converting photons into fuel by splitting water. Chemical Communications, 2023, 59, 5399-5402.	4.1	4
4778	Water Splitting on a Pt1/C3N4 Single Atom Catalyst: A Modeling Approach. Topics in Catalysis, 0, , .	2.8	3
4780	Ordered porous nitrogen-vacancy carbon nitride for efficient visible-light hydrogen evolution. Journal of Colloid and Interface Science, 2023, 642, 53-60.	9.4	1
4781	Polymeric carbon nitride-based photocatalysts for the removal of nitrogen oxides: a review. Environmental Chemistry Letters, 2023, 21, 2913-2952.	16.2	2

#	Article	IF	CITATIONS
4782	Singleâ€Atom Nanoâ€Islands (SANIs): A Robust Atomic–Nano System for Versatile Heterogeneous Catalysis Applications. Advanced Materials, 2023, 35, .	21.0	12
4783	Photocatalytic Azo Dye Degradation Using Graphite Carbon Nitride Photocatalyst and UV-A Irradiation. Crystals, 2023, 13, 577.	2.2	3
4784	The effect of N-vacancy on the photocatalytic activity of graphitic carbon nitride in the oxidative Mannich reaction. Catalysis Science and Technology, 2023, 13, 2317-2329.	4.1	1
4785	Atomic Nickel on Graphitic Carbon Nitride as a Visible Light-Driven Hydrogen Production Photocatalyst Studied by X-ray Spectromicroscopy. ACS Sustainable Chemistry and Engineering, 2023, 11, 5390-5399.	6.7	8
4786	Polymeric Carbon Nitrides for Photoelectrochemical Applications: Ring Opening-Induced Degradation. Nanomaterials, 2023, 13, 1248.	4.1	1
4787	Recent advances in two-dimensional nanomaterials for bone tissue engineering. Journal of Materiomics, 2023, 9, 930-958.	5.7	3
4788	Sb-Substituted Cs ₂ AgBiBr ₆ /g-C ₃ N ₄ Composite for Photocatalytic C(sp ³)–H Bond Activation in Toluene. Chemistry of Materials, 2023, 35, 3105-3114.	6.7	10
4789	Emerging Graphitic Carbon Nitride-based Nanobiomaterials for Biological Applications. ACS Applied Bio Materials, 2023, 6, 1339-1367.	4.6	6
4790	g-C3N4 Based Photocatalyst for the Efficient Photodegradation of Toxic Methyl Orange Dye: Recent Modifications and Future Perspectives. Molecules, 2023, 28, 3199.	3.8	21
4791	Design strategies of carbon nanomaterials in fluorescent sensing of biomolecules and metal ions -A review. Results in Chemistry, 2023, 5, 100918.	2.0	3
4792	Self-assembly core-shell BixY1-xVO4@g-C3N4 as an S-scheme heterojunction photocatalyst for pure water splitting. International Journal of Hydrogen Energy, 2023, 48, 25379-25389.	7.1	6
4793	Mixed-valence molybdenum ion incorporated graphitic carbon nitride with high photocatalytic H2 evolution activity. International Journal of Hydrogen Energy, 2023, 48, 25701-25711.	7.1	1
4794	Synthesis of magnetic graphene-like carbon nitride-cobalt ferrite (g-C ₃ N ₄ /CoFe ₂ O ₄) nanocomposite for sonocatalytic remediation of toxic organic dyes. RSC Advances, 2023, 13, 10940-10955.	3.6	2
4795	g-C3N4-based photocatalysts for organic pollutant removal: a critical review. , 2023, 2, .		20
4796	The heterojunction construction of hybrid B-doped g-C3N4 nanosheets and ZIF67 by simple mechanical grinding for improved photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2023, 48, 25366-25378.	7.1	4
4797	Reduction of CO ₂ with Hydrated Electrons: Ab Initio Computational Studies for Finite-Size Cluster Models. Journal of Physical Chemistry A, 2023, 127, 3372-3380.	2.5	1
4798	Synergistic effect of phosphorus doping and MoS2 co-catalysts on g-C3N4 photocatalysts for enhanced solar water splitting. Journal of Materials Science and Technology, 2023, 158, 171-179.	10.7	21
4799	Advanced Functional Carbon Nitride by Implanting Semiâ€Isolated VO ₂ Active Sites for Photocatalytic H ₂ Production and Organic Pollutant Degradation. Small, 2023, 19, .	10.0	7

#	Article	IF	CITATIONS
4800	Recent Advances in Graphitic Carbon Nitride Based Electro-Catalysts for CO2 Reduction Reactions. Molecules, 2023, 28, 3292.	3.8	4
4801	Salt-Mediated Structural Transformation in Carbon Nitride: From Regulated Atomic Configurations to Enhanced Photocatalysis. Catalysts, 2023, 13, 717.	3.5	3
4802	Donor-acceptor system introduces N defect modified g-C3N4 for efficient photocatalytic degradation of methylene blue under visible light. Materials Today Communications, 2023, 35, 105992.	1.9	0
4803	Functionalized graphitic carbon nitride based catalysts in solar-to-chemical conversion for hydrogen peroxide production. Chemical Engineering Journal, 2023, 466, 142931.	12.7	7
4804	Optimizing the band structure of sponge-like S-doped poly(heptazine imide) with quantum confinement effect towards boosting visible-light photocatalytic H2 generation. Journal of Colloid and Interface Science, 2023, 644, 116-123.	9.4	5
4805	Au-based heterostructure composites for photo and electro catalytic energy conversions. Sustainable Materials and Technologies, 2023, 36, e00609.	3.3	4
4806	Photocatalytic Degradation of Diclofenac by Nitrogen-Doped Carbon Quantum Dot-Graphitic Carbon Nitride (CNQD). Catalysts, 2023, 13, 735.	3.5	3
4807	Prospective applications of two-dimensional materials beyond laboratory frontiers: A review. IScience, 2023, 26, 106671.	4.1	18
4808	Photosynthesis of Hydrogen Peroxide Based on g‑C ₃ N ₄ : The Road of a Costâ€Effective Clean Fuel Production. Small, 2023, 19, .	10.0	16
4809	AÂÏ€â€Conjugated Van der Waals Heterostructure Between Singleâ€Atom Niâ€Anchored Salphenâ€Based Covalent Organic Framework and Polymeric Carbon Nitride for Highâ€Efficiency Interfacial Charge Separation. Small, 2023, 19, .	10.0	7
4810	Enhanced photocatalytic H2 evolution over fluorinated g-C3N4: Roles of surface-adsorbed Fâ^ species. Chemical Physics Letters, 2023, 823, 140517.	2.6	0
4811	Dinuclear metal synergistic catalysis for energy conversion. Chemical Society Reviews, 2023, 52, 3170-3214.	38.1	21
4812	Nanoarchitecture engineering of crumpled polymeric carbon nitride nanosheets for efficient visible-light photocatalytic CO2 reduction. Applied Surface Science, 2023, 627, 157290.	6.1	2
4813	Metal-mediated Schiff base polymer enables metal/nitrogen codoped carbon nanosheets as efficient bifunctional electrocatalyst for durable rechargeable Zn-air batteries. Energy Storage Materials, 2023, 59, 102783.	18.0	1
4814	Engineering strategies and active site identification of MXene-based catalysts for electrochemical conversion reactions. Chemical Society Reviews, 2023, 52, 3215-3264.	38.1	36
4815	Carbon nanosheets to unravel the production of bioactive compounds from microalgae: A robust approach in drug discovery. Drug Discovery Today, 2023, 28, 103586.	6.4	3
4816	Eradication of Gram-negative bacteria by reusable carbon nitride-coated cotton under visible light. Applied Surface Science, 2023, 629, 157311.	6.1	1
4817	Effects of porous g-C ₃ N ₄ Nanosheets and Stearic Acid on the Durability of Waterborne Acrylic Resin Coating. Surface Review and Letters, 0, , .	1.1	0

#	Article	IF	CITATIONS
4818	Preparation of carbon self-doped g-C3N4 for efficient degradation of bisphenol A under visible light irradiation. Environmental Science and Pollution Research, 2023, 30, 65328-65337.	5.3	2
4819	SnO2 promoted carrier separation in superior thin g-C3N4 nanosheets for enhanced photocatalytic degradation and H2 generation. International Journal of Hydrogen Energy, 2023, 48, 28343-28353.	7.1	1
4820	A graphitic-C ₃ N ₄ derivative containing heptazines merged with phenyls: synthesis, purification and application as a high-efficiency metal-free quasi-green phosphor for white LEDs. RSC Advances, 2023, 13, 12509-12517.	3.6	1
4821	Porphyrin-Based Covalent Organic Frameworks: Design, Synthesis, Photoelectric Conversion Mechanism, and Applications. Biomimetics, 2023, 8, 171.	3.3	4
4822	Synergistic effects of Au/g-C3N4/montmorillonite composite nanocatalysts for enhanced photocatalytic performance with visible light illumination. Journal of Nanoparticle Research, 2023, 25, .	1.9	1
4823	A Novel Non-Metallic Photocatalyst: Phosphorus-Doped Sulfur Quantum Dots. Molecules, 2023, 28, 3637.	3.8	0
4824	Advances in organic semiconductors for photocatalytic hydrogen evolution reaction. , 2023, 1, 333-352.		10
4825	Design of hybrid g-C3N4/GO/MCE photocatalytic membranes with enhanced separation performance under visible-light irradiation. Chemical Engineering Journal, 2023, 466, 143164.	12.7	8
4826	Preparation of g-C3N4/TCNQ Composite and Photocatalytic Degradation of Pefloxacin. Micromachines, 2023, 14, 941.	2.9	2
4827	Decoration of rutile TiO2 nanorod film with g-C3N4/SrTiO3 for efficient photoelectrochemical cathodic protection. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 443, 114825.	3.9	3
4828	Rationally designed Ti3C2 MXene/Caln2S4 Schottky heterojunction for enhanced photocatalytic Cr(VI) reduction: Performance, influence factors and mechanism. Journal of Materials Science and Technology, 2023, 161, 123-135.	10.7	22
4829	Ag and Ni doped graphitic carbon nitride coated on wood as a highly porous and efficient photoabsorber in interfacial solar steam generation. Journal of Porous Materials, 2023, 30, 1835-1842.	2.6	2
4830	Molten salt synthesis of a highly crystalline graphitic carbon nitride homojunction from a deep eutectic solvent for selective photocatalytic oxidation. Journal of Materials Chemistry A, 2023, 11, 12342-12353.	10.3	4
4831	Improved Plasmonic Hot-Electron Capture in Au Nanoparticle/Polymeric Carbon Nitride by Pt Single Atoms for Broad-Spectrum Photocatalytic H2 Evolution. Nano-Micro Letters, 2023, 15, .	27.0	12
4832	Pd/g-C3N4 photocatalyst for hydrogen production: Role of experimental condition for Schottky barrier. Fuel, 2023, 349, 128725.	6.4	4
4833	Multidimensional modulation of light fields via a combination of two-dimensional materials and meta-structures. Science China Information Sciences, 2023, 66, .	4.3	2
4834	Construction of S-scheme heterojunction via incorporating g-C3N4 into Ce-based MOFs for promotion of charge-transfer in photocatalytic Cr(VI) detoxification. Journal of Environmental Chemical Engineering, 2023, 11, 110169.	6.7	9
4835	g ₃ N ₄ Nanosheet Nanoarchitectonics: H ₂ Generation and CO ₂ Reduction. ChemNanoMat, 2023, 9, .	2.8	22

#	Article	IF	CITATIONS
4836	Regulating Intermediate Concentration to Synthesize Highly Crystalline g ₃ N ₄ under Spontaneous Ultrahigh Pressure. ChemNanoMat, 0, , .	2.8	3
4837	Internal Interactions within the Complex Type-II Heterojunction of a Graphitic Carbon Nitride/Black Phosphorus Hybrid Decorated with Graphene Quantum Dots: Implications for Photooxidation Performance. ACS Applied Nano Materials, 2023, 6, 7960-7974.	5.0	5
4838	Carbon Nitride Loaded with an Ultrafine, Monodisperse, Metallic Platinum luster Cocatalyst for the Photocatalytic Hydrogenâ€Evolution Reaction. Small, 2023, 19, .	10.0	3
4839	Mixed-Phase Fe2O3 Derived from Natural Hematite Ores/C3N4 Z-Scheme Photocatalyst for Ofloxacin Removal. Catalysts, 2023, 13, 792.	3.5	4
4840	Quantum Dots: Applications in Environmental Remediation. , 2023, , 1245-1266.		0
4841	Recent advances in synthesis, structural properties, and regulation of nickel sulfide-based heterostructures for environmental water remediation: an insight review. Environmental Science and Pollution Research, 2023, 30, 64932-64948.	5.3	6
4842	Electron-rich pyrimidine rings enabling crystalline carbon nitride for high-efficiency photocatalytic hydrogen evolution coupled with benzyl alcohol selective oxidation. , 2023, 1, 552-561.		4
4843	Visible light-induced synthesis of biomass-derived quinoxaline by using Co phthalocyanine immobilized on pyridine-doped g-C3N4. Journal of Energy Chemistry, 2023, 82, 638-652.	12.9	2
4844	Photocatalytic Seawater Splitting. , 2023, , 99-164.		0
4845	Effective modulation of the exotic properties of two-dimensional multifunctional TM ₂ @g-C ₄ N ₃ monolayers <i>via</i> transition metal permutation and biaxial strain. Nanoscale, 2023, 15, 9843-9863.	5.6	7
4846	V-doped Ni ₂ P nanoparticle grafted g-C ₃ N ₄ nanosheets for enhanced photocatalytic hydrogen evolution performance under visible light. Dalton Transactions, 2023, 52, 7447-7456.	3.3	7
4847	Direct Growth of Polymeric Carbon Nitride Nanosheet Photoanode for Greatly Efficient Photoelectrochemical Waterâ€Splitting. Small, 2023, 19, .	10.0	1
4848	Recyclable detection of gefitinib in clinical sample mediated by multifunctional Ag-anchored g-C3N4/MoS2 composite substrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2023, 299, 122801.	3.9	5
4849	Regulation of Polymerization Kinetics to Improve Crystallinity of Carbon Nitride for Photocatalytic Reactions. ChemSusChem, 2023, 16, .	6.8	3
4850	Magnetic carbon nanotubes/red phosphorus/graphitic carbon nitride heterojunction for highly efficient visible-light photocatalytic water disinfection. Chemical Engineering Journal, 2023, 466, 143309.	12.7	12
4851	Carbon nitrides and titanium dioxide-based photocatalysis outlook and challenges. , 2023, , 145-180.		2
4852	Alkali-assisted deep-deamination to improve the crystallinity of poly(heptazine imide) for boosted photocatalytic H2 evolution. Separation and Purification Technology, 2023, 318, 124027.	7.9	0
4853	A review on g-C3N4 decorated with silver for photocatalytic energy conversion. Chinese Chemical Letters, 2024, 35, 108567.	9.0	3

#	Article	IF	CITATIONS
4854	Enzymatic and Bioinspired Systems for Hydrogen Production. International Journal of Molecular Sciences, 2023, 24, 8605.	4.1	6
4855	Driving hydrogen peroxide artificial photosynthesis and utilization for emerging contaminants removal by cyanided polymeric carbon nitride. Applied Catalysis B: Environmental, 2023, 335, 122878.	20.2	4
4856	Graphitic carbon nitride-based electrocatalysts for energy applications. , 2023, 1, 100003.		3
4857	Multiple heteroatom-doped urea and thiourea-derived polymeric carbon nitride for high-performance visible light-driven photocatalytic O2 reduction to H2O2. Applied Catalysis B: Environmental, 2023, 335, 122879.	20.2	9
4858	Case Studies: Photoluminescence (PL) Spectroscopy. Springer Handbooks, 2023, , 323-336.	0.6	0
4859	Homojunction and ohmic contact coexisting carbon nitride for efficient photocatalytic hydrogen evolution. Nano Research, 2023, 16, 8782-8792.	10.4	6
4860	Heterogeneous Metallaphotocatalytic C(sp ²)–C(sp ³) Cross-Coupling Reactions with Integrated Bipyridyl-Ni(II)-Carbon Nitride. Organic Letters, 2023, 25, 4124-4129.	4.6	5
4861	Dissimilar dimensional materials based tailored heterostructures for photocatalytic hydrogen production. Renewable and Sustainable Energy Reviews, 2023, 181, 113348.	16.4	9
4862	Ultrathin porous carbon nitride with molecular structure regulation for excellent photocatalytic water splitting. Chemical Engineering Journal, 2023, 468, 143604.	12.7	11
4863	Advances of MOFs and COFs for photocatalytic CO2 reduction, H2 evolution and organic redox transformations. Coordination Chemistry Reviews, 2023, 490, 215210.	18.8	24
4864	Synthesis and Characterization of a Tertiary Composite of Cu, Mn, and g-C ₃ N ₄ : An Efficient Visible Light-Active Catalyst for Wastewater Treatment. ACS Omega, 2023, 8, 19486-19493.	3.5	0
4866	High-efficiency photocatalytic degradation of RhB by protonation of g-C3N4 with Ag-loaded TiO2 nanofibers. Journal of Crystal Growth, 2023, 617, 127290.	1.5	5
4867	Heterogeneous visible-light promoted dehydrogenative [4 + 2] annulation of benzothioamides and alkynes under aerobic conditions. Green Chemistry, 0, , .	9.0	1
4868	Microstructural and mechanical properties of photocatalytic cement mortar with g-C3N4/CoAl-LDH nanoflowers. Journal of Building Engineering, 2023, 74, 106900.	3.4	2
4869	Fe3O4 quantum dots mediated P-g-C3N4/BiOI as an efficient and recyclable Z-scheme photo-Fenton catalyst for tetracycline degradation and bacterial inactivation. Journal of Hazardous Materials, 2023, 456, 131677.	12.4	14
4870	Single-Color and Two-Color Femtosecond Pump–Probe Experiments on Graphitic Carbon Nitrides Revealing Their Charge Carrier Kinetics. Journal of Physical Chemistry C, 2023, 127, 10617-10628.	3.1	2
4871	Coupling of Fe-N-C single atom catalyst and ferrocene-modified graphitic carbon nitride as an efficient photocatalyst for removal of pollutants from water. Separation and Purification Technology, 2023, 322, 124192.	7.9	1
4872	Construction of electron donor–acceptor Z-scheme heterojunction for boosting photocatalytic H2 production. Applied Surface Science, 2023, 635, 157625.	6.1	3

#	Article	IF	CITATIONS
4873	Polymeric carbon nitride loaded with atomic Cu sites for improved CO2 photocatalytic conversion performance. Journal of Power Sources, 2023, 577, 233188.	7.8	1
4874	Oxidized Platinum Cocatalyst and Self-Assembled Graphene over Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2023, 6, 9825-9838.	5.0	2
4876	Design of Z-scheme polymeric carbon nitride/Bi2WO6 heterojunctions for efficient visible-light-driven antibiotic degradation. Applied Surface Science, 2023, 633, 157609.	6.1	2
4877	S-scheme heterojunction of crystalline carbon nitride nanosheets and ultrafine WO3 nanoparticles for photocatalytic CO2 reduction. Journal of Environmental Sciences, 2024, 140, 103-112.	6.1	29
4878	Novel CoMn2O4-ZnIn2S4 hollow heterostructure cage for efficient photocatalytic hydrogen evolution. Applied Surface Science, 2023, 635, 157646.	6.1	2
4879	Femtosecond Laser Irradiation as a Novel Method for Nanosheet Growth and Defect Generation in g-C3N4. Nanotechnology, 0, , .	2.6	0
4880	Ammonium phosphotungstate nanoparticle/ultrathin g-C ₃ N ₄ composite photocatalysts with Z-scheme heterojunctions: preparation and application to organic contaminant degradation. Materials Research Express, 2023, 10, 065501.	1.6	1
4881	Synergistic influence of vanadium pentoxide-coupled graphitic carbon nitride composite for photocatalytic degradation of organic pollutant: Stability and involved Z-scheme mechanism. Environmental Research, 2023, 231, 116288.	7.5	7
4882	Activated g-C3N4 Photocatalyst with Defect Engineering for Efficient Reduction of CO ₂ in Water. Journal of Physical Chemistry C, 2023, 127, 11067-11075.	3.1	2
4883	Effect of Ruthenium Modification of g-C3N4 in the Visible-Light-Driven Photocatalytic Reduction of Cr(VI). Catalysts, 2023, 13, 964.	3.5	2
4884	First-principles design of g-C ₃ N ₄ /HfSSe heterojunctions for optoelectronic applications. Journal of Physics Condensed Matter, 2023, 35, 365301.	1.8	0
4885	Construction of Rod-Shaped Manganese Trioxide/Phosphorus Doped Carbon Nitride Heterojunction for Z-Scheme Photodegrading Organic Pollutants. Journal of Inorganic and Organometallic Polymers and Materials, 0, , .	3.7	1
4886	Promotion of photocatalytic hydrogen production by utilization of triplet excited states of organic dyes and adjustment of π–I€ interactions. Journal of Materials Chemistry A, 0, , .	10.3	0
4887	One-step calcination synthesis of 2D/2D g-C3N4/WS2 van der Waals heterojunction for visible light-induced photocatalytic degradation of pharmaceutical pollutants. Environmental Science and Pollution Research, 2023, 30, 78537-78553.	5.3	4
4888	Continuous-flow reactor with superior production rate and stability for CO ₂ reduction using semiconductor photocatalysts. Energy and Environmental Science, 2023, 16, 2869-2878.	30.8	3
4889	Au induced in-situ formation of ultra-stable 1T-MoS2 on polymeric carbon nitride toward promoted photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2023, , .	7.1	0
4890	Structural and chemical approaches to enhance the photo/electrocatalytic performance of carbon/g-C ₃ N ₄ composite materials. Chemical Communications, 2023, 59, 8476-8487.	4.1	2
4891	An Ab Initio Study of Two Dimensional SnX ₂ and Janus SnXY (X = S, Se) Nanosheets as Potential Photocatalysts for Water Splitting. ACS Applied Nano Materials, 2023, 6, 10569-10580.	5.0	3

#	Article	IF	CITATIONS
4892	Construction of Pt@BiFeO3 Xerogel-Supported O-g-C3N4 Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B. Gels, 2023, 9, 471.	4.5	2
4893	Recent advances and perspectives of emerging two-dimensional transition metal carbide/nitride-based materials for organic pollutant photocatalysis. Materials Chemistry Frontiers, 2023, 7, 4658-4682.	5.9	10
4894	Porous Organic Polymersâ€Based Singleâ€Atom Catalysts for Sustainable Energyâ€Related Electrocatalysis. Advanced Energy Materials, 2023, 13, .	19.5	17
4895	Design and synthesis of high performance magnetically separable exfoliated g-C3N4/γ-Fe2O3/ZnO yolk-shell nanoparticles: a novel and eco-friendly photocatalyst toward removal of organic pollutants from water. Environmental Science and Pollution Research, 2023, 30, 80162-80180.	5.3	1
4896	Construction of highly active Fe/N-CQDs/MCN1 photocatalytic self-Fenton system for degradation of ciprofloxacin. Journal of Environmental Chemical Engineering, 2023, 11, 110318.	6.7	0
4897	Effect of Heterostructureâ€Modified Separator in Lithium–Sulfur Batteries. Small, 2023, 19, .	10.0	14
4898	Built-in electric field accelerates photogenerated carrier separation in vanadium-oxygen doped C3N4 for flash degradation of methylene blue: Experimental and molecular simulations. Journal of Alloys and Compounds, 2023, 960, 170923.	5.5	1
4899	g-C ₃ N ₄ promotes agro-ecosystem productivity: a case study for rice. Environmental Science: Nano, 2023, 10, 2132-2140.	4.3	1
4900	Euplectella aspergillum inspired PPAN@g-C3N4 fibrous membrane with abundant micro/nano pores for high-throughput wastewater purification. Journal of Environmental Chemical Engineering, 2023, 11, 110347.	6.7	2
4901	Strategies for Improving the Photocatalytic Hydrogen Evolution Reaction of Carbon Nitrideâ€Based Catalysts. Small, 2023, 19, .	10.0	13
4902	Efficient photo-switchable activation of periodate by nitrogen-vacancy-rich carbon nitride for organic contaminant removal: Theoretical predictions and experimental validations. Applied Catalysis B: Environmental, 2023, 337, 122994.	20.2	4
4903	Facile strategy to fabricate NiTe2/g-C3N4 heterojunction photocatalyst with enhanced visible-light photocatalytic hydrogen production. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
4905	Probing high catalytic activity and selectivity of enzyme-mimicking single-atom catalysts formed by pyrrole-type M-N4 sites embedded into g-C3N4 for oxygen reduction reaction. Journal of Environmental Chemical Engineering, 2023, 11, 110382.	6.7	6
4906	Regulation of the Tertiary N Site by Edge Activation with an Optimized Evolution Path of the Hydroxyl Radical for Photocatalytic Oxidation. ACS Catalysis, 2023, 13, 8708-8719.	11.2	7
4908	Boron-doped polymeric carbon nitride co-modified with carbon-ring and carboxyl for efficient photocatalytic overall water-splitting. Chemical Engineering Journal, 2023, 470, 144199.	12.7	5
4909	Regulating the Ammonia Oxidation Selectivity via the Quantified Provision of Molecular Oxygen. ACS Catalysis, 2023, 13, 8783-8791.	11.2	3
4910	One-step fabrication of unique 3D/2D S, O-doped g-C3N4 S-scheme isotype heterojunction for boosting CO2 photoreduction. Materials Today Sustainability, 2023, 23, 100437.	4.1	2
4911	Composites of Ag-Doped ZnIn ₂ S ₄ Nanoplates with Graphitic Carbon Nitride and Reduced Graphene Oxide Nanosheets for Sunlight-Driven Hydrogen Production and Water Purification. ACS Applied Nano Materials, 2023, 6, 12537-12547.	5.0	3

#	Article	IF	CITATIONS
4913	Hydrogen production strategy and research progress of Photoelectro-chemical water splitting by InGaN nanorods. International Journal of Hydrogen Energy, 2023, 48, 36340-36352.	7.1	1
4914	Intramolecular built-in electric field enhanced polymerized nitrogen-carbon homojunction ï€*-electron delocalization enrichment promotes photocatalytic uranium (VI) reduction. Applied Catalysis B: Environmental, 2023, 338, 123023.	20.2	5
4915	Bifunctional Hot Water Vapor Template-Mediated Synthesis of Nanostructured Polymeric Carbon Nitride for Efficient Hydrogen Evolution. Molecules, 2023, 28, 4862.	3.8	3
4916	Research progress on the heterogeneous photocatalytic selective oxidation of benzene to phenol. Chinese Journal of Catalysis, 2023, 49, 16-41.	14.0	6
4917	Versatile Bifunctional Ag@g-C ₃ N ₄ /r-GO Catalyst for Efficient Photo- and Electrocatalytic H ₂ Production. Energy & Fuels, 2023, 37, 9722-9735.	5.1	5
4918	Graphitic carbon nitride with Cu ²⁺ and triazole group co-doping for enhanced peroxidase-like activity and its application for glutathione detection. Sensors & Diagnostics, 2023, 2, 902-908.	3.8	2
4919	Guest Entrapment in Metalâ€Organic Nanosheets for Quantifiably Tuneable Luminescence. Advanced Functional Materials, 2023, 33, .	14.9	2
4920	Fabrication of Curcuma longa mediated novel Ni@ZnO/MoO3 composite anchored with g-C3N4 for sunlight driven photocatalytic activity. Optical Materials, 2023, 142, 114041.	3.6	4
4921	Developing self-floating N-defective graphitic carbon nitride photocatalyst for efficient photodegradation of Microcystin-LR under visible light. Science of the Total Environment, 2023, 895, 165171.	8.0	4
4924	Janus carbon nitride membrane for robust and enhanced nanofluidic power generation from wastewater. Water Research, 2023, 242, 120285.	11.3	5
4925	Construct vacancy nitrogen controllable Z-scheme 3D porous g-C3N4/CoFe2O4 composite material for high-efficient photofixation nitrogen. Diamond and Related Materials, 2023, 138, 110167.	3.9	1
4926	Smart Nanomaterials for Alleviating the Limitation of Photodynamic Therapy. , 2023, , 295-311.		0
4927	In situ synthesis of silver-decorated defective graphitic carbon nitride for enhanced photocatalytic redox performance. Journal of Alloys and Compounds, 2023, 962, 171194.	5.5	2
4928	Ultrathin Carbon Nitride Nanosheets Exfoliated and In Situ Modified with a Nickel Bis(Chelate) Complex for Boosting Photocatalytic Performances. Inorganic Chemistry, 2023, 62, 10973-10983.	4.0	2
4929	Replacing CC Unit with Bâ†N Unit in Isoelectronic Conjugated Polymers for Enhanced Photocatalytic Hydrogen Evolution. Small, 2023, 19, .	10.0	4
4930	Selective Photocatalytic Reduction of CO ₂ to CO Mediated by Silver Single Atoms Anchored on Tubular Carbon Nitride. Angewandte Chemie, 2023, 135, .	2.0	2
4931	Selective Photocatalytic Reduction of CO ₂ to CO Mediated by Silver Single Atoms Anchored on Tubular Carbon Nitride. Angewandte Chemie - International Edition, 2023, 62, .	13.8	21
4932	Graphitic Carbon Nitride (g-C3N4)-Based Photocatalysts for Environmental Applications. Springer Series in Materials Science, 2023, , 103-136.	0.6	4

#	Article	IF	CITATIONS
4933	Photocatalysis. , 2023, , 387-415.		0
4934	Kinetic Evidence for Type-II Heterojunction and <i>Z</i> -Scheme Interactions in g-C ₃ N ₄ /TiO ₂ Nanotube-Based Photocatalysts in Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2023, 6, 5197-5206.	5.1	4
4935	CuBr2@g-C3N4-catalyzed cyclization of aromatic alkyne ketones to obtain indenones with K2S2O8 under blue light irradiation. Tetrahedron Letters, 2023, 123, 154523.	1.4	0
4936	Safe Etching Route of Nb2SnC for the Synthesis of Two-Dimensional Nb2CTx MXene: An Electrode Material with Improved Electrochemical Performance. Materials, 2023, 16, 3488.	2.9	0
4937	One-step synthesis of porous thin-layered graphitic carbon nitride for enhanced photocatalytic dye degradation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 671, 131600.	4.7	1
4938	Structure-engineering the stability, electronic, optical and photocatalytic properties of hexagonal C ₂ P ₂ monolayers. Physical Chemistry Chemical Physics, 2023, 25, 15052-15061.	2.8	2
4939	Anisotropic solution growth of 1D/2D N-rich carbon. , 2023, 2, 100138.		2
4940	Constructing Co–S interface chemical bonds over Co@NC/ZnIn ₂ S ₄ for an efficient solar-driven photocatalytic H ₂ evolution. Dalton Transactions, 2023, 52, 7869-7875.	3.3	3
4941	Copolymerization synthesis of highly hydrophilic carbon nitride for efficient solar hydrogen production. Journal of Materials Chemistry A, 2023, 11, 11133-11140.	10.3	6
4942	Multiâ€Functional Bioâ€HJzyme: Revolutionizing Diabetic Skin Regeneration with its Glucoseâ€Unlocked Sterilization and Programmed Antiâ€Inflammatory Effects. Advanced Science, 2023, 10, .	11.2	12
4943	Interlayer Electrons Polarization of Asymmetric Metal Nanoclusters/g ₃ N ₄ for Enhanced Microwave Therapy of Pneumonia. Advanced Science, 0, , .	11.2	2
4944	Photocatalytic Synthesis of Hydrogen Peroxide from Molecular Oxygen and Water. Topics in Current Chemistry, 2023, 381, .	5.8	0
4945	Combined DFT-D3 Computational and Experimental Studies on g-C3N4: New Insight into Structure, Optical, and Vibrational Properties. Materials, 2023, 16, 3644.	2.9	3
4946	Copper-doped carbon nitride as a practical heterogeneous metallaphotocatalyst for aerobic oxidative cross-coupling of tertiary amines with terminal alkynes. Green Chemistry, 2023, 25, 4446-4452.	9.0	7
4947	High-Throughput Screening of Gas Sensor Materials for Decomposition Products of Eco-Friendly Insulation Medium by Machine Learning. ACS Sensors, 2023, 8, 2319-2330.	7.8	6
4948	Adaptable graphitic C6N6-based copper single-atom catalyst for intelligent biosensing. Nature Communications, 2023, 14, .	12.8	21
4949	Dual-Defective Two-Dimensional/Two-Dimensional Z-Scheme Heterojunctions for CO ₂ Reduction. ACS Catalysis, 2023, 13, 7221-7229.	11.2	24
4950	Recent Advances in Carbon Nitride-Based S-scheme Photocatalysts for Solar Energy Conversion. Materials, 2023, 16, 3745.	2.9	3

#	Article	IF	CITATIONS
4951	ZIF-8 derived carbon/g-C3N4 – an all-carbon heterojunction for effective photo-decontamination of Cr(VI) from water. Journal of Alloys and Compounds, 2023, 960, 170623.	5.5	1
4952	Development and characterization of silver modified novel graphitic-carbon nitride (Ag-ZnO/C3N4) coupled with metal oxide photocatalysts for accelerated degradation of dye-based emerging pollutants. Surfaces and Interfaces, 2023, 39, 102938.	3.0	6
4953	Preparation of porous C3N5 nanosheets by temperature modulation: Visible-light induced degradation characteristics and mechanism of microcystin-LR. Journal of Environmental Chemical Engineering, 2023, 11, 110153.	6.7	2
4954	Graphitic carbon nitride (g–C3N4)–assisted materials for the detection and remediation of hazardous gases and VOCs. Environmental Research, 2023, 231, 116149.	7.5	13
4955	Ternary single atom catalysts for effective oxygen reduction and evolution reactions. Chemical Engineering Journal, 2023, 468, 143641.	12.7	5
4956	Multi-heteroatom-doping promotes molecular oxygen activation on polymeric carbon nitride for simultaneous generation of H ₂ O ₂ and degradation of oxcarbazepine. Nanoscale, 2023, 15, 11482-11490.	5.6	0
4957	Recent Progress in Porphyrin/g-C3N4 Composite Photocatalysts for Solar Energy Utilization and Conversion. Molecules, 2023, 28, 4283.	3.8	6
4958	Prediction and interpretation of photocatalytic NO removal on g-C3N4-based catalysts using machine learning. Chinese Chemical Letters, 2024, 35, 108596.	9.0	1
4959	Intermetallic Pd–Sn Nanoparticles on Supports with High Metal Loading Facilitated by the Metal–Metal Bond for High-Performance Cooperative Catalysis. Inorganic Chemistry, 2023, 62, 9089-9098.	4.0	0
4960	Molecular-level design of isolated molybdenum oxide anchored on carbon nitride for photocatalytic H2 production and environmental remediation. Applied Catalysis B: Environmental, 2023, 336, 122907.	20.2	8
4961	Precise Defect Engineering on Graphitic Carbon Nitrides for Boosted Solar H ₂ Production. Small, 0, , .	10.0	4
4962	Synthesis of highly crystallized g-C3N4 by regulating staged gaseous intermediates for hydrogen production. Journal of Materials Research, 2023, 38, 3214-3226.	2.6	1
4963	g-C ₃ N ₄ Photocatalysts: Utilizing Electron–Hole Pairs for Boosted Redox Capability in Water Splitting. Energy Material Advances, 2023, 4, .	11.0	7
4964	Interfacial Affinity Determined Photocatalytic Activity: A Comparison between Defective and Bulk Polymeric Carbon Nitride. ACS Applied Materials & Interfaces, 2023, 15, 31502-31513.	8.0	1
4966	Bi-functional biochar-g-C3N4-MgO composites for simultaneously minimizing pollution:Photocatalytic degradation of pesticide and phosphorus recovery as slow-release fertilizer. Journal of Environmental Management, 2023, 344, 118489.	7.8	5
4967	Synchronous construction of Ni2P/Cu3P in-situ loading and P doping for g-C3N4: Enhanced photocatalytic H2 evolution activity and mechanism. Inorganica Chimica Acta, 2023, 556, 121659.	2.4	0
4968	Metal sulfide-based Z-scheme heterojunctions in photocatalytic removal of contaminants, H2 evolution and CO2 reduction: Current status and future perspectives. Journal of Cleaner Production, 2023, 416, 137957.	9.3	28
4969	Hydrogen production on g-C3N4 nanoflakes via photoelectrochemical water splitting. Materials Today: Proceedings, 2023, , .	1.8	0

#	ARTICLE First-principles calculations on performance of the g-C3N4/LNS-TiO2(Cr+C) heterojunction	IF	CITATIONS
4970	photocatalyst in water splitting process. International Journal of Hydrogen Energy, 2023, 48, 38742-38748.	7.1	3
4971	Key factors in improving the synthesis and properties of visible-light activated g-C ₃ N ₄ for photocatalytic hydrogen production and organic pollutant decomposition. Catalysis Reviews - Science and Engineering, 0, , 1-72.	12.9	6
4972	Schottky-barrier-free plasmonic photocatalysts. Physical Chemistry Chemical Physics, 2023, 25, 19358-19370.	2.8	0
4973	Defect-activated ternary carbon composite: A multifunctional electrocatalyst for efficient oxidation of water, urea, glucose, ORR, and zinc-air batteries. Journal of Energy Storage, 2023, 71, 108186.	8.1	2
4975	Well-defined surface catalytic sites for solar CO ₂ reduction: heterogenized molecular catalysts and single atom catalysts. Chemical Communications, 2023, 59, 9301-9319.	4.1	1
4976	Construction of g-C3N4-based photo-enzyme-coupled catalytic system and application in the efficient degradation of acridine. Journal of Environmental Chemical Engineering, 2023, 11, 110492.	6.7	0
4978	Carbon nitride based materials: more than just a support for single-atom catalysis. Chemical Society Reviews, 2023, 52, 4878-4932.	38.1	31
4980	Ultrathin Crystalline Carbon Nitride Nanosheets for Highly Efficient Photocatalytic Pollutant Removal and Hydrogen Production. ACS Applied Nano Materials, 2023, 6, 11601-11611.	5.0	3
4981	A yellow-green-emitting graphitic-C3N4 derivative consisting of 1,4-phenylene-inserted heptazine units: Preparation and application as a metal-free phosphor for white LEDs. Optical Materials, 2023, 142, 114076.	3.6	0
4982	Updates on Hydrogen Value Chain: A Strategic Roadmap. Global Challenges, 0, , .	3.6	5
4983	A New Design to Enhance the Enzyme Activities: Investigation of L-Asparaginase Catalytic Performance by IMAC Effect on g-C3N4 Nanolayers. Catalysis Letters, 0, , .	2.6	2
4984	Iodide-mediated selective photocatalytic treatment of phenolic pollutants. Applied Catalysis B: Environmental, 2023, 338, 123080.	20.2	6
4985	Photocatalytic Degradation of Dyes Present in Industrial Effluents: A Review. ChemistrySelect, 2023, 8, .	1.5	3
4986	Synthesis of CuO/g ₃ N ₄ Composite with High Antiâ€Interference Ability for EnhancedÂFentonâ€Like Catalysis. Particle and Particle Systems Characterization, 2023, 40, .	2.3	3
4987	Structurally optimized MXene-based photocatalytic membrane to achieve self-cleaning properties and enhanced removal for small molecule from wastewater. Separation and Purification Technology, 2023, 324, 124542.	7.9	0
4988	Sonoactivated Cascade Fenton Reaction Enhanced by Synergistic Modulation of Electron–Hole Separation for Improved Tumor Therapy. Advanced Healthcare Materials, 2023, 12, .	7.6	2
4989	Fabrication of Bi2MoO6/g-C3N4 visible-light driven photocatalyst for enhanced tetracycline degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 444, 115013.	3.9	3
4990	Gram-scale synthesis of atomically dispersed p-block Al atoms on polymeric carbon nitride for efficient antibiotic photodegradation. Applied Surface Science, 2023, 638, 157908.	6.1	0

#	Article	IF	CITATIONS
4992	Tuning CH ₄ Productivity from Visible Lightâ€Driven Gasâ€Phase CO ₂ Photocatalytic Reduction on Doped g ₃ N ₄ /TiO ₂ Heterojunctions. Energy Technology, 2023, 11, .	3.8	2
4993	FeNi Confined in N-Doped Carbon as a Highly Efficient Bi-Functional Catalyst for Rechargeable Zn–Air Batteries. Inorganics, 2023, 11, 300.	2.7	0
4994	Ultrafine MoOx clusters anchored on g-C3N4 with nitrogen/oxygen dual defects for synergistic efficient O2 activation and tetracycline photodegradation. Nano Research, 2023, 16, 10713-10723.	10.4	11
4996	Optical Enhancement of Indirect Bandgap 2D Transition Metal Dichalcogenides for Multiâ€Functional Optoelectronic Sensors. Advanced Materials, 2023, 35, .	21.0	10
4997	Renaissance of elemental phosphorus materials: properties, synthesis, and applications in sustainable energy and environment. Chemical Society Reviews, 2023, 52, 5388-5484.	38.1	9
4998	Application of g-C3N4-PVDF membrane for the photocatalytic degradation of micropollutants in continuous flow mode: Impact of water matrix. Journal of Environmental Chemical Engineering, 2023, 11, 110586.	6.7	6
5000	Organic conjugation of graphitic carbon nitride nanocomposites for boosted photocatalytic water splitting. Materials Science in Semiconductor Processing, 2023, 166, 107742.	4.0	1
5001	State-of-the-art evolution of g-C3N4 based Z-scheme heterostructures towards energy and environmental applications: A review. Materials Research Bulletin, 2023, 168, 112448.	5.2	3
5002	Sodium ion doped graphitic carbon nitride with high crystallinity for superior photocatalytic hydrogen evolution efficiency. Journal of Materials Chemistry A, O, , .	10.3	1
5003	Selenium/g-C ₃ N ₄ with a Solid Li ₄ Ti ₅ O ₁₂ Blocking Layer for Selective Li ⁺ Ion Diffusion in Long-Lived Li–Se Batteries. ACS Applied Nano Materials, 2023, 6, 13912-13925.	5.0	1
5004	Dual-channel charge transfer over g–C3N4/g–C3N4/bismuth-based halide perovskite composite for improving photocatalytic degradation of tetracycline hydrochloride. Journal of Alloys and Compounds, 2023, 965, 171509.	5.5	3
5005	Orbital Understanding to the Origin of Site-Specific Band Gap Tuning in Electron-Rich S-Doped and Electron Precise C,S-Dual-Doped Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2023, 127, 14741-14755.	3.1	1
5006	Recent progress of graphitic carbon nitride films and their application in photoelectrochemical water splitting. Sustainable Energy and Fuels, 0, , .	4.9	0
5007	Highly Efficient Photocatalytic Degradation of Tetracycline by Modifying UiO-66 via Different Regulation Strategies. ACS Omega, 0, , .	3.5	1
5009	Tunable CO2-to-syngas conversion via strong electronic coupling in S-scheme ZnGa2O4/g-C3N4 photocatalysts. Journal of Colloid and Interface Science, 2023, 652, 636-645.	9.4	2
5010	Sensing Performance of Heptazine-Based C3N4 Quantum Dot Toward Highly Toxic Environmental Pollutants, Amides, and Acetyl Derivatives. Journal of Inorganic and Organometallic Polymers and Materials, 2024, 34, 79-92.	3.7	1
5011	Cobalt doped nitrogen-vacancies-rich C3N5 with optimizing local electron distribution boosts peroxymonsulfate activation for tetracycline degradation: Multiple electron transfer mechanisms. Chemosphere, 2023, 339, 139549.	8.2	4
5012	S-scheme P-doped g-C3N4/BiOBr heterojunction with oxygen vacancy for efficient photocatalytic degradation of phenanthrene: Enhance molecular oxygen activation and mechanism insights. Chemical Engineering Journal, 2023, 472, 145053.	12.7	5

#	Article	IF	CITATIONS
5013	A Breakthrough in Photocatalytic Wastewater Treatment: The Incredible Potential of g-C3N4/Titanate Perovskite-Based Nanocomposites. Nanomaterials, 2023, 13, 2173.	4.1	4
5015	Synthesis of novel flower-like Bi4Ti3O12/BiOCl heterojunctions with excellent piezoelectric photocatalytic performance. Journal of Alloys and Compounds, 2023, 966, 171572.	5.5	4
5017	Fabrication of visible-light-driven bulk carbon doped carbon nitride with enhanced photocatalytic activity for tetracycline degradation and mechanism insight. Optical Materials, 2023, 143, 114202.	3.6	2
5018	Janus XMoAZ2 (XÂ=ÂS, Se, Te; AÂ=ÂSi, Ge; ZÂ=ÂN, P, As) monolayers: First-principles insight into electronic structures, optical and photocatalytic properties. Applied Surface Science, 2023, 639, 158146.	6.1	6
5020	On-Demand Triplet-Sensitized Photoswitching of Arylazopyrazoles. Chemistry Letters, 0, , .	1.3	0
5021	Efficient photodegradation of micropollutants by tubular carbon nitride: The role of nitrogen defects. Journal of Cleaner Production, 2023, 419, 138328.	9.3	4
5022	Clean Production of Hydrogen Peroxide: A Heterogeneous Solarâ€Ðriven Redox Process. Advanced Energy Materials, 2023, 13, .	19.5	11
5023	Shining Light on Carbon Aerogel Photocatalysts: Unlocking the Potentials in the Quest for Revolutionizing Solarâ€ŧoâ€Chemical Conversion and Environmental Remediation. Advanced Functional Materials, 2023, 33, .	14.9	5
5024	Integration of Singleâ€Atom Catalyst with <i>Z</i> â€Scheme Heterojunction for Cascade Charge Transfer Enabling Highly Efficient Piezoâ€Photocatalysis. Advanced Science, 2023, 10, .	11.2	8
5025	Evolution of Ni coordination configuration during one-pot pyrolysis synthesis of Ni-g-C3N4 single atom catalyst. Carbon, 2023, 214, 118348.	10.3	0
5026	Band structure engineering of carbon nitride hybrid photocatalysts for CO ₂ reduction in aqueous solutions. Journal of Materials Chemistry A, 2023, 11, 18356-18364.	10.3	2
5027	Superior Interfacial Contact Yields Efficient Electron Transfer Rate and Enhanced Solar Photocatalytic Hydrogen Generation in M/C ₃ N ₄ Schottky Junctions. ACS Applied Materials & Interfaces, 2023, 15, 39926-39945.	8.0	2
5028	Zeno and Anti-Zeno Effects in Nonadiabatic Molecular Dynamics. Journal of Physical Chemistry Letters, 2023, 14, 7274-7282.	4.6	5
5029	Hydrogen production and degradation of organic pollutants catalyzed by C/Ti ₃ C ₂ /g-C ₃ N ₄ hollow microsphere Schottky junctions with a built-in electric field in organic wastewater. New Journal of Chemistry, 0, , .	2.8	0
5030	g-C3N4-based nanocomposites for the photocatalytic degradation of VOCs: A review. Progress in Natural Science: Materials International, 2023, 33, 407-424.	4.4	1
5031	Infiltration of C-ring into crystalline carbon nitride S-scheme homojunction for photocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2023, 50, 361-371.	14.0	13
5032	Carbonized polymer dots modified ZnIn2S4 microspheres for visible-light-driven hydrogen evolution promotion performance. Journal of Colloid and Interface Science, 2023, 651, 948-958.	9.4	2
5033	Synthesis and photocatalytic performance of composite g-C3N4 with functionalized multi-walled carbon nanotubes. Journal of Alloys and Compounds, 2023, 968, 171707.	5.5	1

#	Article	IF	CITATIONS
5034	Comprehensive Experimental Design of Photocatalytic Hydrogen Production Performance of CdS QDs/ompg-C ₃ N ₄ . Material Sciences, 2023, 13, 742-751.	0.0	0
5035	Sn(IV)porphyrin-Anchored TiO2 Nanoparticles via Axial-Ligand Coordination for Enhancement of Visible Light-Activated Photocatalytic Degradation. Inorganics, 2023, 11, 336.	2.7	4
5036	Boosting PFOA photocatalytic removal from water using highly adsorptive and sunlight-responsive ZIF67/MIL-100(Fe) modified C3N4. Journal of Environmental Chemical Engineering, 2023, 11, 110765.	6.7	2
5037	Enhanced photocatalytic activity of p (BaSnO3)-n (anatase/rutile/brookite TiO2) heterojunction composites by efficient interfacial charge transfer. Journal of Molecular Structure, 2023, 1294, 136440.	3.6	5
5038	Synthesis of Ag3PO4/Ag/g-C3N4 Composite for Enhanced Photocatalytic Degradation of Methyl Orange. Molecules, 2023, 28, 6082.	3.8	1
5039	Fabrication of N-doped graphitic carbon nanosheets via reaction between CaC2 and g-C3N4 as promising Li-ions battery anode. Journal of Energy Storage, 2023, 72, 108604.	8.1	1
5040	Direct Conversion of Methane to Propylene. Research, 0, , .	5.7	0
5041	One-Step Synthesis of Porous Graphitic Carbon Nitride and the Photocatalytic Performance under Visible-Light Irradiation. Journal of Research Updates in Polymer Science, 0, 12, 97-103.	0.3	0
5042	Convenient fabrication of ultrafine VOx decorated on porous g-C3N4 for boosting photocatalytic degradation of pharmaceuticals with peroxymonosulfate. Surfaces and Interfaces, 2023, 42, 103300.	3.0	2
5043	g-C3N4 coupled with 2,4,6-tris(4-aminophenyl)-1,3,5-triazine via π–π interactions enhanced visible-light photocatalytic H2 evolution from water splitting. Catalysis Science and Technology, 0, , .	4.1	0
5044	Photoelectrochemical Engineering for Lightâ€Assisted Rechargeable Metal Batteries: Mechanism, Development, and Future. Small, 2023, 19, .	10.0	0
5045	State-of-the-art advances in vacancy defect engineering of graphitic carbon nitride for solar water splitting. Journal of Semiconductors, 2023, 44, 081701.	3.7	3
5046	Photocatalysis-Fenton mechanism of rGO-enhanced Fe-doped carbon nitride with boosted degradation performance towards rhodamine B. Journal of Water Process Engineering, 2023, 55, 104080.	5.6	8
5047	Photocatalytic H2 generation and Cr(VI) reduction by p-n heterojunction of CuO/nanostructured nitrogen-enriched carbon nitrides. Inorganic Chemistry Communication, 2023, 157, 111294.	3.9	4
5048	Photocatalytic and structure evaluation of g-C3N4/carbon microspheres and melam/dimelem intermediates under white LED and UVA-Vis irradiation. Journal of Solid State Chemistry, 2023, 328, 124294.	2.9	1
5049	Defective Bi@BiOBr/C microrods derived from Bi-MOF for efficient photocatalytic NO abatement: Directional regulation of interfacial charge transfer via carbon–loading. Applied Catalysis B: Environmental, 2024, 340, 123238.	20.2	6
5050	Alkaline Earth Metal Intercalated into Carbon Nitride Nanosheets for Photocatalytic Peroxymonosulfate Removal of Refractory Organic Pollutants. ACS Applied Nano Materials, 0, , .	5.0	0
5051	Tailoring the bandgap of zinc indium sulfide/boroncarbonitride heterostructure for efficient photocatalytic CO2 reduction. Journal of Environmental Chemical Engineering, 2023, 11, 110867.	6.7	1

		CITATION REPORT		
#	Article		IF	CITATIONS
5052	MOFâ€Based Photocatalytic Membrane for Water Purification: A Review. Small, 2024,	20, .	10.0	3
5053	3D hierarchical ZnNiO2 nanoflowers as a novel co-reaction accelerator to fabricate sta sensitive biosensor for the methotrexate assay. International Journal of Electrochemica 2023, , 100325.	ble and highly al Science,	1.3	0
5054	Insights into the disinfection enhancement of homojunction g-C3N4 photocatalyst fro transfer regulation and cell-surface attachment. Chemical Engineering Journal, 2023, 4	m charge 74, 145771.	12.7	5
5055	Novel photoelectrochemical 3D-system for water disinfection by deposition of modifie nitride on vitreous carbon foam. Environmental Research, 2023, 237, 117019.	d carbon	7.5	3
5056	Boosting the Photoreactivity of g-C3N4 towards CO2 Reduction by Polymerization of Ammonium Chloride. Catalysts, 2023, 13, 1260.	Dicyandiamide in	3.5	0
5057	Powering up the energy storage: Exploring the potential of Graphitic Carbon Nitride-St Nanohybrid for next-generation energy and photocatalytic applications. Journal of Ene 2023, 72, 108806.	rontium Oxide rgy Storage,	8.1	2
5058	Enhancing visible light absorption for efficient CO2 reduction with black carbon nitride microspheres. New Journal of Chemistry, 0, , .	2 hollow	2.8	0
5059	Light-Driven CO ₂ Reduction with a Surface-Displayed Enzyme Cascade–C ₃ N ₄ Hybrid. ACS Synthetic Biology, 0, , .		3.8	1
5060	Engineering graphitic carbon nitride for next-generation photodetectors: a mini review Advances, 2023, 13, 25968-25977.	. RSC	3.6	1
5061	Photo and redox active carbon nitride – dual functionality for energy storage. Journa Chemistry A, 2023, 11, 20601-20607.	l of Materials	10.3	0
5062	Tuning of the electronic, photocatalytic and optical properties of Janus XWAZ _{2< Technology, 2023, 13, 5718-5733.}	:/sub> (X = S, Se,) Tj ETQqC) 0 0 rgBT 4.1	/Overlock 10 1
5063	Recent advancements in the fabrication and photocatalytic applications of graphitic can nitride-tungsten oxide nanocomposites. Nanoscale Advances, 2023, 5, 5214-5255.	arbon	4.6	5
5064	NIR-II light-response porphyrin-heptazine-based conjugated organic polymers for highly photooxidation. Materials Chemistry Frontiers, 2023, 7, 5383-5390.	/ efficient	5.9	0
5065	Graphitic Carbon Nitride Nanosheets Decorated with Zinc-Cadmium Sulfide for Type-II for Photocatalytic Hydrogen Production. Nanomaterials, 2023, 13, 2609.	Heterojunctions	4.1	1
5066	Direct Biocatalytic Processes for CO2 Capture as a Green Tool to Produce Value-Addeo Molecules, 2023, 28, 5520.	l Chemicals.	3.8	4
5067	Mechanical and spectroscopic investigation of novel f-MWCNTS/g-C ₃ N ₄ /TiO ₂ ternary nanocomposi denture base PMMA. Physica Scripta, 2023, 98, 095930.	te reinforced	2.5	0
5069	Carbon dots-based nanocomposites for heterogeneous photocatalysis. Journal of Mate and Technology, 2024, 175, 244-257.	erials Science	10.7	5
5070	Functional nanosheet fillers with fast Li+ conduction for advanced all-solid-state lithiur Energy Storage Materials, 2023, 62, 102954.	n battery.	18.0	1

#	Article		CITATIONS
5071	Recent advancements in synthesis and multi-functional catalytic applications of graphitic carbon nitride. Catalysis Reviews - Science and Engineering, 0, , 1-71.	12.9	1
5072	Effect of molten-salt modulation on the composition and structure of g-C ₃ N ₄ -based photocatalysts. Chemical Communications, 2023, 59, 10476-10487.	4.1	0
5073	Emerging two-dimensional materials for the electrocatalytic nitrogen reduction reaction to yield ammonia. Journal of Materials Chemistry A, 2023, 11, 22590-22607.	10.3	2
5074	lsotype heterojunction: tuning the heptazine/triazine phase of crystalline nitrogen-rich C ₃ N ₅ towards multifunctional photocatalytic applications. Materials Horizons, 2024, 11, 408-418.	12.2	3
5075	Synthesis and up-to-date applications of 2D microporous g-C ₃ N ₄ nanomaterials for sustainable development. Chemical Communications, 2023, 59, 10883-10911.	4.1	7
5076	Modulation of afterglow electrochemiluminescence from nitrogen-deficient graphitic carbon nitride by pH. New Journal of Chemistry, 2023, 47, 17220-17223.	2.8	0
5077	Towards the Development of a Z-Scheme FeOx/g-C3N4 Thin Film and Perspectives for Ciprofloxacin Visible Light-Driven Photocatalytic Degradation. Applied Sciences (Switzerland), 2023, 13, 10591.	2.5	1
5078	Preparation of carbon nanotube films towards mechanical and electrochemical energy storage. Nano Research, 2023, 16, 12411-12429.	10.4	1
5079	Inactivation of E. coli and S. aureus by novel binary clay/semiconductor photocatalytic macrocomposites under UVA and sunlight irradiation. Journal of Environmental Chemical Engineering, 2023, 11, 110813.	6.7	1
5080	An olefin-linked pyridinium covalent organic frameworks bearing donor–acceptor structure for highly efficient photocatalytic organic transformations. Applied Catalysis A: General, 2023, 666, 119403.	4.3	0
5081	Reconstruction of surface oxygen vacancy for boosting CO2 photoreduction mediated by BiOBr/CdS heterojunction. Separation and Purification Technology, 2024, 329, 125179.	7.9	10
5082	Strategies to Enhance Interfacial Spatial Charge Separation for Highâ€Efficiency Photocatalytic Overall Waterâ€5plitting: A Review. Advanced Energy and Sustainability Research, 2023, 4, .	5.8	2
5083	Two-dimensional TMDs/MN (M = Al, Ga) van der Waals heterojunction photocatalyst: a first-principles study. Journal of Materials Science, 2023, 58, 14080-14095.	3.7	0
5084	A concise review of recent advances in carbon nitride-based intramolecular donor–acceptor architectures for photocatalytic hydrogen production: Heteromolecular coupling of organic compounds. Journal of Alloys and Compounds, 2023, 968, 172000.	5.5	2
5085	The reformation of catalyst: From a trial-and-error synthesis to rational design. Nano Research, 0, , .	10.4	16
5086	Local Hydrogen Bonding Determines Branching Pathways in Intermolecular Heptazine Photochemistry. Journal of Physical Chemistry B, 2023, 127, 6703-6713.	2.6	2
5087	Graphitic carbon nitride nanosheets mitigate cadmium toxicity in L. by promoting cadmium retention in root and improving photosynthetic performance. Journal of Environmental Sciences, 2024, 139, 543-555.	6.1	0
5088	Catalytic ozonation of dissolved acetaminophen with iron-doped graphitic carbon nitride in plasma-liquid system. Chemical Engineering Journal, 2023, 475, 146014.	12.7	3

		CITATION REPORT		
#	Article		IF	CITATIONS
5089	Engineering photocatalytic ammonia synthesis. Chemical Society Reviews, 2023, 52, 6	938-6956.	38.1	4
5090	Construction of 2D/3D g-C ₃ N ₄ /ZnIn ₂ S _{4- Heterojunction for Efficient Photocatalytic Reduction of CO₂ under Visibl Industrial & amp; Engineering Chemistry Research, 2023, 62, 15907-15918.}	 e Light.	3.7	4
5091	Photoelectrochemical water oxidation using hematite modified with metal-incorporate carbon nitride film as a surface passivation and hole transfer overlayer. Applied Catalys Environmental, 2024, 340, 123167.	'd graphitic is B:	20.2	2
5093	Control of carbon vacancies in g-C3N4 photocatalyst via wood pyrolysis induced etchin Applied Surface Science, 2023, 639, 158259.	ng strategy.	6.1	2
5094	Conjugated polymers S-scheme homojunction with large internal electric field and mat interface for efficient visible light photocatalytic degradation of ciprofloxacin. Journal c Production, 2023, 419, 138199.	ching of Cleaner	9.3	9
5095	Aminosilanized Interface Promotes Electrochemically Stable Carbon Nitride Films with States on FTO for (Photo)electrochemical Systems. ACS Applied Materials & amp; Inter 46902-46915.	Fewer Trap faces, 2023, 15,	8.0	1
5096	Multifunctional carbon nitride nanoarchitectures for catalysis. Chemical Society Reviev 7602-7664.	vs, 2023, 52,	38.1	9
5097	Advanced heterostructures as bifunctional electrocatalysts for overall water splitting - Journal of Energy Storage, 2023, 73, 109127.	a review.	8.1	4
5098	Amide Covalent Bonding Engineering in Heterojunction for Efficient Solar-Driven CO <s 17,="" 2023,="" 20560-20569.<="" acs="" nano,="" reduction.="" td=""><td>ub>2</td><td>14.6</td><td>21</td></s>	ub>2	14.6	21
5099	Recent advances in tunable metalâ \in "support interactions for enhancing the photocata reduction reaction. , 0, , .	alytic nitrogen		0
5100	Rationally designed g-C3N4/ZnO nn heterojunction based flexible triboelectric nanoge self-powered temperature sensing application. Sensors and Actuators A: Physical, 2023	nerators for 3, 362, 114668.	4.1	0
5101	Strategies to improve the electrochemiluminescence performance of graphitic carbon nanomaterials. Journal of Electroanalytical Chemistry, 2023, 947, 117784.	nitride	3.8	0
5102	Pt-Ni contact engineering in carbon nitride based photocatalysts for hydrogen product Environmental Chemical Engineering, 2023, 11, 110921.	ion. Journal of	6.7	0
5103	Graphitic Carbon Nitride/Zinc Oxide-Based Z-Scheme and S-Scheme Heterojunction Ph the Photodegradation of Organic Pollutants. International Journal of Molecular Science 15021.	otocatalysts for es, 2023, 24,	4.1	2
5104	High-crystalline g-C3N4 photocatalysts: Synthesis, structure modulation, and H2-evolu application. Chinese Journal of Catalysis, 2023, 52, 127-143.	ition	14.0	10
5105	Synthesis of g-C3N4@ZnIn2S4 Heterostructures with Extremely High Photocatalytic H Production and Reusability. Catalysts, 2023, 13, 1187.	lydrogen	3.5	1
5106	Modulation of electronic density in ultrathin g-C3N4 for enhanced photocatalytic hydr evolution through an efficient hydrogen spillover pathway. Applied Catalysis B: Environ 341, 123334.	ogen ımental, 2024,	20.2	6
5107	Recent advances in two-dimensional graphitic carbon nitride based photodetectors. M Design, 2023, 235, 112405.	aterials and	7.0	1

#	Article	IF	CITATIONS
5108	A differential strategy to enhance the anti-interference ability of molecularly imprinted electrochemiluminescence sensor with a semi-logarithmic calibration curve. Analytica Chimica Acta, 2023, 1280, 341875.	5.4	0
5109	Probing the role of H-ZSM-5 zeolite in the hydrogen evolution performance of graphitic carbon nitride. Journal of Environmental Chemical Engineering, 2023, 11, 111231.	6.7	0
5110	Porphyrin Supramolecular Nanoassembly/C ₃ N ₄ Nanosheet S-Scheme Heterojunctions for Selective Photocatalytic CO ₂ Reduction toward CO. ACS Applied Materials & Interfaces, 2023, 15, 47070-47080.	8.0	2
5111	Constructing long ycling crystalline C ₃ N ₄ â€based carbonaceous anodes for sodiumâ€ion battery via N configuration control. , 0, , .		2
5112	Roles of Interface Polaron in the Z-Scheme Photocatalytic Mechanism for Water Splitting: A Multiscale Simulation Study. Journal of Physical Chemistry C, 2023, 127, 19995-20003.	3.1	1
5113	Weak Interaction between Nickel Thiolate and g-C ₃ N ₄ Improving Electron–Hole Separation for Photocatalysis. ACS Catalysis, 2023, 13, 12186-12196.	11.2	4
5114	Covalent Organic Framework-based Hybrid Materials and Their Applications. , 2023, , 335-381.		0
5115	Understanding Structureâ€Activity Relationship in Ptâ€loaded <i>g</i> â€C ₃ N ₄ for Efficient Solar†Photoreforming of Polyethylene Terephthalate Plastic and Hydrogen Production. Small Methods, 2024, 8, .	8.6	2
5116	Boron and nitrogen co-doped carbon-based nanomaterials/nickel oxide/hydroxide hybrids for sunlight induced photocatalytic water cleaning. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 676, 132159.	4.7	0
5117	Gold–graphitic carbon nitride composite electrode for pimobendan detection. Journal of the Chinese Chemical Society, 2023, 70, 1995-2004.	1.4	Ο
5118	Selective generation of H2O2 by Cu-modified graphitic carbon nitride for rapid water disinfection via intracellular Fenton reaction. Chemical Engineering Journal, 2023, 477, 146835.	12.7	0
5119	Stability and Crystallinity of Sodium Poly(Heptazine Imide) in Photocatalysis. Angewandte Chemie - International Edition, 2023, 62, .	13.8	4
5120	Synthesizing Interpenetrated Triazineâ€based Covalent Organic Frameworks from CO ₂ . Angewandte Chemie - International Edition, 2023, 62, .	13.8	2
5121	Photocatalytic nitrogen fixation by g-C3N4/MoS2/PbTiO3 with synergistic electric field. Journal of Alloys and Compounds, 2023, 968, 172226.	5.5	2
5122	Enriched photocatalytic and photoelectrochemical activities of a 2D/0D g-C ₃ N ₄ /CeO ₂ nanostructure. Nanoscale Advances, 2023, 5, 6489-6500.	4.6	2
5123	Synergizing interstitial K and substitutional O by dual-doping on carbon nitride for efficient CO2 photoreduction. Applied Surface Science, 2024, 642, 158550.	6.1	1
5124	Enhancing photocatalytic hydrogen production of carbon nitride: Dominant advantage of crystallinity over mass transfer. Journal of Colloid and Interface Science, 2024, 654, 317-326.	9.4	0
5125	Near-Infrared Light-Driven Photocatalytic Reforming Lignocellulose into H ₂ and Chemicals over Heterogeneous Carbon Nitride. ACS Catalysis, 2023, 13, 13768-13776.	11.2	1

#	Article	IF	CITATIONS
5126	Sterilization mechanism and nanotoxicity of visible light-driven defective carbon nitride and UV-excited TiO2. Journal of Hazardous Materials, 2024, 461, 132109.	12.4	0
5127	Recent advances on portable photoelectrochemical biosensors for diagnostics. Electroanalysis, 2023, 35, .	2.9	0
5128	Enhanced electron delocalization on pyrimidine doped graphitic carbon nitride for boosting photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2023, , .	7.1	0
5129	Revealing the charge transfer mechanism in Er ion-doped Bi4O5Br2/g-C3N5 nanocomposite for efficient photocatalytic degradation of antibiotic tetracycline. Carbon Letters, 2023, 33, 2277-2286.	5.9	1
5130	Modulation of ultrathin nanosheet structure and nitrogen defects in graphitic carbon nitride for efficient photocatalytic bacterial inactivation. Water Research X, 2023, 20, 100193.	6.1	1
5131	The g-C3N4/BSA@MnO2 nanocomposites fluorescent off-on probe for detection and imaging of ascorbic acid in living cells. Materials Today Chemistry, 2023, 33, 101656.	3.5	2
5132	Ni3P2W18O62-Ni3(BTC)2 composite of Ni3P2W18O62 coated on the surface of the Ni3(BTC)2 with supercapacitor and H2O2 sensing properties was prepared by simple grinding strategy. Electrochimica Acta, 2023, 466, 143028.	5.2	2
5133	Carbon Nitrides from Supramolecular Crystals: From Single Atoms to Heterojunctions and Advanced Photoelectrodes. Chemistry - A European Journal, 2023, 29, .	3.3	2
5134	Influence of low level of non-metal doping on g-C3N4 performance for H2 production from water under solar light irradiation. International Journal of Hydrogen Energy, 2024, 51, 285-300.	7.1	4
5135	High energy nitrogen ion-beam implantation induced nucleation and crystalline growth in amorphous carbon nitride films. Vacuum, 2023, 217, 112538.	3.5	1
5136	Elucidating the Effect of Crystallinity on the Photoactivity in Poly(heptazine imides). Energy & Fuels, 0, , .	5.1	2
5137	Gas template mediated exfoliation of polymeric graphitic carbon nitride; what contributes more to hydrogen production, a higher specific surface area, or defect sites?. Materials Today Sustainability, 2023, 24, 100513.	4.1	0
5138	Fabricating carbon quantum dots of graphitic carbon nitride vis ultrasonic exfoliation for highly efficient H2O2 production. Ultrasonics Sonochemistry, 2023, 99, 106582.	8.2	4
5139	Photoâ€Controllable Persistent Luminescence in Doped Polymers for Reversible Highâ€Resolution Patterning and Multiple Stimuliâ€Response. Advanced Optical Materials, 2024, 12, .	7.3	1
5140	Boron-Doped Exfoliated g-C ₃ N ₄ Nanosheet-Based Phosphors for White Light-Emission and Photocatalytic Degradation. ACS Applied Nano Materials, 2023, 6, 16947-16959.	5.0	3
5141	Fabrication of Z-scheme ZnO/g-C3N4 heterojunction modified by silver nanoparticles for photocatalytic removal of Norfloxacin and Rhodamine B. Optical Materials, 2023, 144, 114305.	3.6	5
5142	Chemoenzymatic Photoreforming: A Sustainable Approach for Solar Fuel Generation from Plastic Feedstocks. Journal of the American Chemical Society, 2023, 145, 20355-20364.	13.7	4
5143	Long-Term Characterization of Oxidation Processes in Graphitic Carbon Nitride Photocatalyst Materials via Electron Paramagnetic Resonance Spectroscopy. Molecules, 2023, 28, 6475.	3.8	0

	CITATION	CITATION REPORT	
#	Article	IF	CITATIONS
5144	Nanomaterials for Advanced Photocatalytic Plastic Conversion. Molecules, 2023, 28, 6502.	3.8	3
5145	Promoted surface charge density from interlayer Zn–N4 configuration in carbon nitride for enhanced CO2 photoreduction. Nano Research, 2024, 17, 2400-2409.	10.4	0
5146	Controlling Electronic Properties of Carbon Nitride Nanotubes by Carbon Doping for Photocatalytic H ₂ Production. ACS Applied Nano Materials, 2023, 6, 16231-16241.	5.0	1
5147	Nanographitic carbon nitride. , 2024, , 443-456.		0
5148	Recent trends in metal-doped carbon nitride-catalyzed heterogeneous light-driven organic transformations. , 2023, 4, 100019.		1
5150	Dramatically improved piezo-photocatalytic activity in PVDF@Bi2MoO6/BiOBr composite films via constructing built-in polarization field in heterojunctions. Journal of Alloys and Compounds, 2023, 968, 172154.	5.5	2
5151	Tuning <i>p</i> -Band Center of Carbon Nitride Homojunction Photocatalysts through Strain Effect for Solar-Driven H ₂ Production. ACS Energy Letters, 2023, 8, 4173-4178.	17.4	5
5152	Microbial-assisted synthesis of Schwertmannite@g-C3N4 composite for bisphenol AF degradation through visible light-driven peroxymonosulfate activation. Journal of Environmental Chemical Engineering, 2023, 11, 111048.	6.7	1
5153	Oxygen-exfoliated cobalt-doped C3N4 for superior Fenton-like catalysis: The accessible metal exposure and synergistic pollutant adsorption from three-dimensional layered configuration. Journal of Environmental Chemical Engineering, 2023, 11, 111067.	6.7	0
5155	The effect of dopant P O functional group and OH, O, H2O adsorption on the structural, electronic, and optical properties of triangular g-C3N4 quantum dots by first-principles study. Vacuum, 2023, 218, 112637.	3.5	0
5156	Singleâ€Atom Coâ€Ultrafine RuO <i>_x</i> Clusters Codecorated TiO ₂ Nanosheets Promote Photocatalytic Hydrogen Evolution: Modulating Charge Migration, H ⁺ Adsorption, and H ₂ Desorption of Active Sites. Advanced Functional Materials, 2024, 34, .	14.9	2
5157	Ultrafast dynamics in polymeric carbon nitride thin films probed by time-resolved EUV photoemission and UV-Vis transient absorption spectroscopy. Physical Chemistry Chemical Physics, 2023, 25, 27094-27113.	2.8	0
5158	Enhanced photocatalytic degradation of antibiotic levofloxacin by Ag3PO4/C3N4/ZnO nanocomposite. Research on Chemical Intermediates, 2023, 49, 5517-5539.	2.7	0
5159	Synthesizing Interpenetrated Triazineâ€based Covalent Organic Frameworks from CO ₂ . Angewandte Chemie, 2023, 135, .	2.0	0
5160	The photocatalytic mineralization of phenolic wastewater via self-generation and -activation of H2O2 technology. Journal of Environmental Chemical Engineering, 2023, 11, 111108.	6.7	0
5161	A comprehensive review highlights the photocatalytic heterojunctions and their superiority in the photo-destruction of organic pollutants in industrial wastewater. Inorganic Chemistry Communication, 2023, 158, 111503.	3.9	8
5163	Recent advances in semiconductor heterojunctions: a detailed review of the fundamentals of photocatalysis, charge transfer mechanism and materials. , 2024, 1, 43-69.		3
5164	Enhanced photocatalytic degradation of levofloxacin over heterostructured C3N4/Nb2O5 system under visible light. Heliyon, 2023, 9, e20479.	3.2	0

#	Article	IF	CITATIONS
5165	A recent developments in Ag3VO4 based photocatalysts towards environmental remediation: Properties, synthesis, strategies and applications. Journal of Industrial and Engineering Chemistry, 2024, 130, 25-53.	5.8	2
5166	Metal-free 2D/2D VdW heterojunction fabricated by amorphous covalent triazine frameworks with nitrogen-defect on polymeric carbon nitride towards enhanced photocatalytic performance. Separation and Purification Technology, 2024, 330, 125224.	7.9	1
5167	Green synthesis of rectangular hollow tubular carbon nitride via in-situ self-assembly strategy to enhance the degradation of tetracycline hydrochloride under visible light irradiation. Environmental Research, 2023, 238, 117252.	7.5	1
5168	Photocatalytic H ₂ evolution coupled with selective aromatic alcohol oxidation over nitrogen-vacancy-rich Ti ₃ C ₂ T _{<i>x</i>>/sub>/g-C₃N₄ junctions <i>yia</i>> interfacial N–Ti bonding, Journal of Materials Chemistry A, 2023, 11, 21677-21685.}	10.3	0
5169	A critical review on visible light active graphitic carbon nitride (g-CN) based photocatalyst for environment remediation application: A sustainable approach. Journal of Cleaner Production, 2023, 427, 138855.	9.3	2
5170	Integrating bimetallic nanoclusters onto a porous g-C3N4 support for efficient degradation of metronidazole: Performance and mechanism study. Separation and Purification Technology, 2024, 330, 125239.	7.9	0
5171	Construction of a molecularly imprinted polymer electrochemical sensor based on g-C3N4/Cu-MOF for the detection of norfloxacin. Ionics, 0, , .	2.4	0
5172	An in-situ self-etching enabled high-power electrode for aqueous zinc-ion batteries. Journal of Energy Chemistry, 2024, 88, 399-408.	12.9	0
5173	Stability and Crystallinity of Sodium Poly(Heptazine Imide) in Photocatalysis. Angewandte Chemie, 2023, 135, .	2.0	0
5174	Optimization of Ag single atom dispersed graphitic carbon nitride for enhanced catalytic performance in the degradation of rhodamine B and tetracycline. Materials Research Bulletin, 2024, 170, 112553.	5.2	0
5175	Addressing the synchronized impact of a novel strontium titanium over copolymerized carbon nitride for proficient solar-driven hydrogen evolution. Journal of Colloid and Interface Science, 2024, 655, 886-898.	9.4	1
5176	Efficient Hg0 catalytic removal by direct S-scheme heterostructure of two-dimensional Bi2MoO6 (2 0) Tj ETQq1	1 0,784314 7.8	l rgBT /Overl
5177	Photocatalytic degradation of a pharmaceutical pollutant (Levofloxacin) by two-hybrid photocatalysts g-C3N4/TiO2 and WO3/TiO2: comparative study. International Journal of Environmental Science and Technology, 0, , .	3.5	0
5178	Hybrid Two-Dimensional Porous Materials. Chemistry of Materials, 0, , .	6.7	0
5179	Exploring the Enhanced Catalytic Activity of Pt Nanoparticles Generated on the Red Phosphorus/Graphitic Carbon Nitride Binary Heterojunctions in the Photo-assisted Hydrolysis of Ammonia Borane. ACS Applied Materials & Interfaces, 2023, 15, 48096-48109.	8.0	1
5181	Fabrication and characterization of ZnGa1.01Te2.13/g-C3N4 heterojunction with enhanced photocatalytic activity. Heliyon, 2023, 9, e20879.	3.2	1
5182	Application of single-atom Ti-doped g-C ₃ N ₄ in photocatalytic H ₂ O ₂ production. Materials Advances, 0, , .	5.4	0
5183	Preparation of a Novel Nanostructured Lead Titanate Composite Photocatalyst and Its Degradation of Organic Dyes under Visible Light. Journal of Composites Science, 2023, 7, 434.	3.0	0

#	Article	IF	Citations
5184	Graphene Monoxide and Its Variants for Photocatalytic and Photovoltaic Applications─An <i>Ab Initio</i> Study. Journal of Physical Chemistry C, 2023, 127, 20594-20607.	3.1	0
5185	Graphitic C3N4 and Ti3C2 nanocomposites for the enhanced photocatalytic degradation of organic compounds and the evolution of hydrogen under visible irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2024, 447, 115260.	3.9	0
5186	A 2D Nanoâ€architecture (NPSMC@Irâ^'Ru@rGO) Derived from Graphene Enfolded Polyphosphazene Nanospheres Decorated Irâ^'Ru Metals (PZS@Irâ^'Ru@GO) towards Bifunctional Water Splitting. Chemistry - an Asian Journal, 2023, 18, .	3.3	0
5187	Orthogonal Dual Photocatalysis of Single Atoms on Carbon Nitrides for One-Pot Relay Organic Transformation. ACS Nano, 2023, 17, 21470-21479.	14.6	1
5189	Levofloxacin degradation by porous Cox/CN activated peroxymonosulfate: Investigation of efficiency, mechanism, and degradation pathways. Journal of Water Process Engineering, 2023, 56, 104427.	5.6	0
5190	Immobilizing graphitic carbon nitride on porous silica via hydrogen bonds for photocatalytic flow synthesis of azoxybenzene. Chemical Engineering Journal, 2023, 476, 146730.	12.7	0
5191	Mesostructured graphitic carbon nitride composites with silver nanoparticle decoration as the best visible-light-driven photocatalysts for dye degradation and H2 production. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 680, 132615.	4.7	1
5195	Highly crystalline carbon nitride by covalent remedy for CO2 photoreduction. Separation and Purification Technology, 2024, 330, 125457.	7.9	1
5197	Graphitic carbon nitride–adorned PDMS self-cleaning floating photocatalyst for simultaneous removal of Rhodamine B, Crystal Violet and Malachite Green from a ternary dye mixture. Environmental Science and Pollution Research, 0, , .	5.3	0
5198	Construction of catalytic ozonation synergistic photo-self-Fenton system and analysis of synergistic catalysis and reaction mechanism activated by modified carbon nitride. Applied Catalysis B: Environmental, 2024, 342, 123408.	20.2	2
5199	Improving the photodegradation efficiency of POPs in oily sewage: Design and synthesis of G-C3N4-based photocatalysts incorporating a pickering emulsion catalytic strategy. Journal of Environmental Chemical Engineering, 2023, 11, 111297.	6.7	0
5201	Recent Advances in g-C3N4 Photocatalysts: A Review of Reaction Parameters, Structure Design and Exfoliation Methods. Catalysts, 2023, 13, 1402.	3.5	1
5202	The progress of g-C3N4 in photocatalytic H2 evolution: From fabrication to modification. Coordination Chemistry Reviews, 2024, 500, 215489.	18.8	13
5203	Target-oriented functionalization: Turning carbon nitride into a round-the-clock antimicrobial photocatalyst in water disinfection. Chemical Engineering Journal, 2023, 477, 147039.	12.7	1
5204	In-situ implantation of oxygen-containing reaction site in heterogeneous carbon–nitrogen in-plane polymer heterojunction with donor–acceptor feature for enhanced CO2 photoconversion. Applied Surface Science, 2024, 645, 158855.	6.1	0
5205	Enhancement photoreduction CO2 performance via constructed C3N4/Cu2O p-n heterojunction. Applied Catalysis A: General, 2023, 668, 119489.	4.3	0
5206	Fabrication of PVDF membrane loaded with ultra-thin g-C3N4/FeOCl nanomaterials and study on catalytic and antifouling properties. Separation and Purification Technology, 2024, 331, 125641.	7.9	0
5207	Extending the Optical Absorption Limit of Graphitic Carbon Nitride Photocatalysts: A Review. ACS Applied Nano Materials, 2023, 6, 19551-19572.	5.0	0

#	Article	IF	CITATIONS
5208	Photoelectrochemical Water Splitting by Using Nanomaterials: A Review. Journal of Electronic Materials, 2024, 53, 1-15.	2.2	0
5209	Enhanced removal of emerging pollutants through visible light-activated carbon nitride materials immobilized over 3D printed structures. Journal of Environmental Chemical Engineering, 2023, 11, 111343.	6.7	0
5210	Construction of layered SnS2 and g-C3N4 nanoarchitectonics towards pollution degradation and H2 generation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 680, 132678.	4.7	3
5211	Visible light mediated synthesis of 1,3-diarylated imidazo[1,5- <i>a</i>]pyridines <i>via</i> oxidative amination of C–H catalyzed by graphitic carbon nitride. Organic and Biomolecular Chemistry, 2023, 21, 9552-9561.	2.8	1
5212	Alkali metal doped crystalline g-C ₃ N ₄ with an enriched cyano group for visible-light photocatalytic degradation of methylamine. RSC Advances, 2023, 13, 31820-31834.	3.6	1
5213	Polymer semiconductors: A unique platform for photocatalytic hydrogen peroxide production. Materials Today, 2023, 71, 152-173.	14.2	1
5214	Enhanced photodegradation of 3-nitro-1, 2, 4-triazol-5-one by FeCuO bimetallic catalyst supported on mesoporous carbon nitride. Journal of Environmental Chemical Engineering, 2023, 11, 111409.	6.7	0
5215	Photo-enhanced dehydrogenation of formic acid on Pd-based hybrid plasmonic nanostructures. Nanoscale Advances, 2023, 5, 6819-6829.	4.6	1
5216	Rhombohedral boron monosulfide as a metal-free photocatalyst. Scientific Reports, 2023, 13, .	3.3	1
5217	Photo-electrochemical green-hydrogen generation: Fundamentals and recent developments. International Journal of Hydrogen Energy, 2024, 51, 779-808.	7.1	0
5218	Graphitic carbon nitride meets molecular oxygen: New sustainable photocatalytic ways for the oxidation of organic molecules. , 2023, 4, 100028.		0
5219	Unveiling the synergistic interplay of appropriate oxygen vacancies and S-scheme heterojunction structures in OVs-TiO2/g-C3N4 catalyst for efficient RhB photodegradation and H2 production. Journal of Alloys and Compounds, 2024, 972, 172722.	5.5	1
5220	Flexo-/Piezoelectric Polarization Boosting Exciton Dissociation in Curved Two-Dimensional Carbon Nitride Photocatalyst. Nano Letters, 2023, 23, 10571-10578.	9.1	5
5221	Copper-Loaded Nanoheterojunction Enables Superb Orthotopic Osteosarcoma Therapy via Oxidative Stress and Cell Cuproptosis. ACS Nano, 2023, 17, 21134-21152.	14.6	1
5222	Fabrication of next-generation multifunctional LBG-s-AgNPs@ g-C3N4 NS hybrid nanostructures for environmental applications. Environmental Research, 2024, 240, 117540.	7.5	5
5223	Textile geometry associated with advanced nanomaterials for high rate supercapacitors. Journal of Energy Storage, 2024, 75, 109648.	8.1	1
5224	硫掺æ;氮化碳纳米片棒状èšé›†ä½"用于å‰å,¬åŒ–æžæ°¢. Science China Materials, 2023, 66	, 46 59-46	79.

5225	2D/2D composites based on graphitic carbon nitride and MXenes for photocatalytic reactions: a critical review. Carbon Letters, 2024, 34, 227-245.	5.9		1
------	---	-----	--	---

#	Article	IF	CITATIONS
5226	Synergistic reduction of U(VI) and selective oxidation of benzyl alcohol to prepare benzaldehyde via WOx/g-C3N4. Applied Catalysis B: Environmental, 2024, 343, 123525.	20.2	7
5227	Efficient Strategies to Use β-Cationic Porphyrin-Imidazolium Derivatives in the Photoinactivation of Methicillin-Resistant Staphylococcus aureus. International Journal of Molecular Sciences, 2023, 24, 15970.	4.1	0
5228	Fabrication of a Nanosized g-C ₃ N ₄ -Loaded Cellulose Microfiber Bundle to Induce Highly Efficient Water Treatment via Photodegradationâ€ ⁻ . Langmuir, 2023, 39, 16657-16667.	3.5	0
5229	Boosting solar photothermal synergy for efficient overall water splitting based on Mg, Al codoped and Rh/Cr2O3/CoOOH coloaded SrTiO3. Chemical Engineering Journal, 2024, 479, 147636.	12.7	0
5230	Effects of SnO2 coupling on the structure and photocatalytic performance of TiO2/sepiolite composites. Journal of Saudi Chemical Society, 2023, 27, 101765.	5.2	0
5231	Constructing Z-scheme heterojunctions of Zr-MOF/g-C ₃ N ₄ for highly efficient photocatalytic H ₂ production under visible light. New Journal of Chemistry, 2023, 47, 21685-21691.	2.8	1
5233	Interfacial Interaction between the Ruthenium(IV) Oxide Cluster and Graphitic Carbon Nitride Governing the Photocatalytic Activity. Journal of Physical Chemistry C, 2023, 127, 22076-22084.	3.1	0
5234	Captopril supported on magnetic graphene nitride, a sustainable and green catalyst for one-pot multicomponent synthesis of 2-amino-4H-chromene and 1,2,3,6-tetrahydropyrimidine. Scientific Reports, 2023, 13, .	3.3	1
5235	Construction of graphitic carbon nitride coupled TiO2 heterostructured composite for enhanced photocatalytic performance towards organic pollutant degradation. Inorganic Chemistry Communication, 2023, 158, 111658.	3.9	0
5236	Photocatalytic hydrogen production by donor–π–acceptor type covalent triazine frameworks involving different π bridges. New Journal of Chemistry, 2023, 47, 21049-21054.	2.8	0
5237	Breaking symmetry of carbon nitride skeleton by embedding pyridine ring to promote photocatalytic performance. Applied Surface Science, 2024, 646, 158921.	6.1	0
5238	Synthesis of Pd-modified Fe3O4 loaded on montmorillonite catalyst for photocatalytic degradation of tetracycline. Inorganic Chemistry Communication, 2024, 159, 111745.	3.9	0
5239	Enhanced Photocurrent and Photocatalytic Performance of a π-Conjugated Polymer Hybridized with Hexagonal ZnO Nanotubes. ACS Applied Energy Materials, 2023, 6, 11331-11341.	5.1	0
5240	Critical role of empty in-gap states in the photocatalytic water splitting on carbon nitride nanosheets. Applied Surface Science, 2024, 644, 158806.	6.1	1
5241	A rational guide to improve the activity of a hydrogen-evolving polymeric carbon nitride photocatalyst. Sustainable Energy and Fuels, 2023, 8, 36-42.	4.9	1
5242	A comprehensive review of recent developments and challenges for gas separation membranes based on two-dimensional materials. FlatChem, 2024, 43, 100594.	5.6	1
5243	Oxygen vacancy induced robust interfacial electric field for efficient photocatalytic hydrogen peroxide production. Chemical Engineering Journal, 2024, 479, 147724.	12.7	0
5244	A ZnO-002/amorphous Bi2WO6 heterojunction with enhanced electron-hole separation for high-performance Cr(VI) photoreduction. Applied Surface Science, 2024, 648, 159007.	6.1	1
#	Article	IF	CITATIONS
------	---	------	-----------
5245	Enhancing the Catalytic Activity of Pd Nanocrystals towards Suzuki Crossâ€Coupling by g ₃ N ₄ Photosensitization. ChemNanoMat, 2024, 10, .	2.8	0
5246	Piezoâ€Flexocatalysis of Singleâ€Atom Pt‣oaded Graphitic Carbon Nitride. Small Methods, 0, , .	8.6	1
5247	Synthesize magnetic ZnFe2O4@C/Cd0.9Zn0.1S catalysts with S-scheme heterojunction to achieve extraordinary hydrogen production efficiency. Journal of Colloid and Interface Science, 2024, 657, 672-683.	9.4	4
5248	The preserved S-scheme band structure of graphitic carbon nitride/bismuth oxobromide after the introduction of black phosphorus driven by an internal electric field: achieving significantly enhanced photocatalytic performance. Journal of Materials Chemistry A, 2023, 11, 26086-26104.	10.3	0
5249	Modified carbon nitride incorporating Keggin-type potassium phosphotungstate enhances photocatalytic degradation of imidacloprid under visible light. Materials Science in Semiconductor Processing, 2024, 171, 108001.	4.0	0
5250	Current Status and Future of Organic–Inorganic Hybrid Perovskites for Photoelectrocatalysis Devices. Energy & Fuels, 2023, 37, 17782-17802.	5.1	3
5251	A covalent organic framework based on BOPHY/TiO ₂ hybrid photocatalysts for solar driven hydrogen production. Journal of Materials Chemistry A, 0, , .	10.3	0
5252	Effect of Contact Mode of TiO ₂ /g-C ₃ N ₄ Heterojunction on Photocatalytic Performance for Dye Degradation. Materials Transactions, 2023, 64, 2782-2791.	1.2	0
5253	Converting low-polymerized fragments into melem assemblies as charge transport bridges to activate polymeric carbon nitride. Nano Structures Nano Objects, 2023, 36, 101070.	3.5	0
5255	P/S-g-C3N4 nanosheet composites with enhanced photocatalytic water splitting and dye degradation. Journal of Alloys and Compounds, 2024, 973, 172962.	5.5	0
5256	Construction of Embedded Sulfurâ€Doped gâ€C ₃ N ₄ /BiOBr Sâ€Scheme Heterojunction for Highly Efficient Visible Light Photocatalytic Degradation of Organic Compound Rhodamine B. Small, 0, , .	10.0	0
5257	Two-dimensional SPdAZ ₂ (A = Si, Ge; Z = N, P, As) monolayers with an intrinsic electric field for high-performance photocatalysis. Physical Chemistry Chemical Physics, 0, , .	2.8	0
5259	Construction of a floating photothermal-assisted photocatalytic system with a three-dimensional hollow porous network structure. Chemosphere, 2024, 346, 140634.	8.2	0
5260	Ultrasonic neural regulation over two-dimensional graphene analog biomaterials: Enhanced PC12 cell differentiation under diverse ultrasond excitation. Ultrasonics Sonochemistry, 2023, 101, 106678.	8.2	0
5261	Recent progress in modifications of g-C ₃ N ₄ for photocatalytic hydrogen evolution and CO ₂ reduction. Semiconductor Science and Technology, 2024, 39, 013001.	2.0	0
5262	Photo-crosslinked composite hydrogels with silver-deposited polymeric carbon nitride for boosting antibacterial activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 680, 132668.	4.7	0
5263	Anthology on graphitic carbon nitride (g-C3N5) coping experimental synthesis, theoretical studies, characterization, and its deployment in biological, environmental, energy conversion and storage. Journal of Environmental Chemical Engineering, 2023, 11, 111376.	6.7	1
5264	Synthesis and immobilization of HC/BiVO4 catalyst particles with PTFE for photocatalytic tetracycline degradation: Preparation, performance and mechanism. Journal of Water Process Engineering, 2023, 56, 104474.	5.6	0

ARTICLE IF CITATIONS Rejoint of Carbon Nitride Fragments into Multiâ€Interfacial Orderâ€Disorder Homojunction for Robust 5265 21.0 5 Photoâ€Driven Generation of H₂O₂. Advanced Materials, 2024, 36, . Postâ€Graphene 2D Materials: Structures, Properties, and Cancer Therapy Applications. Advanced Healthcare Materials, 2024, 13, . CeMnO₃ Nanoparticle-Decorated g-C₃N₄ Nanosheets as Z-Scheme 5268 Heterostructures for Efficient Photocatalytic Degradation of Dyes. ACS Applied Nano Materials, 2023, 5.0 0 6,20539-20555. Recyclable bactericidal packaging films for emperor banana preservation. Food Chemistry, 2024, 438, 138002. Synergistic photogeneration of reactive oxygen species by Fe species self-deposited on résorcinol-formaldehyde towards the degradation of phenols under visible light. Chemosphere, 2024, 5271 8.2 0 347, 140620. Green synthesis of folic acid-based carbon dots for solar photocatalytic sulfamethazine degradation. 6.7 Journal of Environmental Chemical Engineering, 2023, 11, 111493. Maximizing charge dynamics in ZnIn2S4/CN Van der Waals heterojunction for optimal hydrogen 5274 3.8 0 production from photoreforming of glucose. Chemical Engineering Science, 2024, 284, 119532. Heterointerface Connection with Multiple Hydrogen-Bonding in Z-Scheme Heterojunction SiW₉Co₃@UiO-67-NH₂ Deciding High Stability and Photocatalytic 4.0 CO₂ Reduction Performance. Inorganic Chemistry, 2023, 62, 20401-20411. Carboxymethylation of Cinnamyl Alcohol with Dimethyl Carbonate over Graphitic Carbon Nitrides. 5277 0 2.8 ChemPlusChem, 0, , . A novel molecularly imprinted electrochemical sensor based on graphitic carbon nitride nanosheets 5278 decorated bovine serum albumin@MnO2 nanocomposite for zearalenone detection. Journal of Food Composition and Analysis, 2024, 125, 105857. Phototactic Photocatalysis Enabled by Functionalizing Active Microorganisms with Photocatalyst. 5279 0 5.3Advanced Sustainable Systems, 2024, 8, . Effect of Copper-Modification of g-C3N4 on the Visible-Light-Driven Photocatalytic Oxidation of 5280 3.8 Nitrophenols. Molecules, 2023, 28, 7810. Rational optimization of <scp>2D Bi₂MoO₆</scp> nanopiece@<scp>2D gâ€C₃N₄</scp> nanoflake composite for boosting photocatalytic performance 5282 3.2 0 of <scp>hydrogen evolution rate</scp> and <scp>organic dye removal</scp>. Journal of Chemical Technology and Biotechnology, 2024, 99, 674-684. In situ solid-state fabrication of Z-Scheme BiVO4/g-C3N4 heterojunction photocatalyst with highly efficient-light visible activity and their antibacterial properties against bacterial pathogens. Journal of Molecular Structure, 2024, 1300, 137222. 3.6 Rapid charge migration of hierarchical S-Scheme g-C3N4/CdS@C for efficient photocatalytic hydrogen 5284 2 7.1 evolution. International Journal of Hydrogen Energy, 2024, 55, 635-644. Boosting the water splitting and hydrogen production of S-scheme fabricated porous g-C3N4 modified 3.9 with CuO. Diamond and Related Materials, 2024, 141, 110703. Dual Z-scheme Pr2Sn2O7/P@g-C3N4/SnS2 heterojunctions for the removal of tetracycline antibiotic by persulfate activation: Kinetics, thermodynamic parameters, density functional theory, and toxicity 5286 12.7 0 studies. Chemical Engineering Journal, 2024, 479, 147796. Ternary heterogeneous Z-scheme photocatalyst TiO₂/CuInS₂/OCN incorporated with carbon quantum dots (CQDs) for enhanced photocatalytic degradation efficiency 5288 of reactive yellow 145 dye in water. RSC Advances, 2023, 13, 35339-35348.

CITATION REPORT

#	Article	IF	CITATIONS
5290	C-Rich Carbon Nitride Conjugated Polymer Enabling Ion-Migration-Induced Precise Electrochromic Display. ACS Applied Materials & Interfaces, 0, , .	8.0	0
5291	Sulfur-Doped g-C ₃ N ₄ Heterojunctions for Efficient Visible Light Degradation of Methylene Blue. ACS Omega, 0, , .	3.5	0
5292	2D/2D Z-scheme WO3/g-C3N4 heterojunctions for photocatalytic organic pollutant degradation and nitrogen fixation. Materials Advances, 0, , .	5.4	0
5293	An overview of synthesis, morphology, and versatile applications of nanostructured graphitic carbon nitride (g-C3N4). Journal of Industrial and Engineering Chemistry, 2023, , .	5.8	0
5294	Acid protonation promoted different crystal phase structure silicon carbide-based carbon nitride composites to enhance the photocatalytic degradation of dye wastewater. RSC Advances, 2023, 13, 35672-35682.	3.6	1
5295	Mixed phase anatase nanosheets/brookite nanorods TiO2 photocatalysts for enhanced gas phase CO2 photoreduction and H2 production. Journal of Environmental Chemical Engineering, 2024, 12, 111644.	6.7	1
5296	Predicting the Stability of Single-Atom Catalysts in Electrochemical Reactions. ACS Catalysis, 2024, 14, 45-55.	11.2	2
5297	Graphene-like graphitic carbon nitride (g-C3N4) as a semiconductor photocatalyst: Properties, classification, and defects engineering approaches. Materials Today Sustainability, 2024, 25, 100633.	4.1	0
5298	Unlocking single-atom catalysts via amorphous substrates. Nano Research, 0, , .	10.4	0
5299	Metal oxide nanocrystals embedded polypyrrole nanohybrid: Exploring role of interface in photocatalytic hydrogen generation. Materials Today Sustainability, 2024, 25, 100610.	4.1	0
5300	Biochar-Based Single-Atom Catalyst with Fe-N ₃ O-C Configuration for Efficient Degradation of Organic Dyes by Peroxymonosulfate Activation. ACS Applied Materials & Interfaces, 0, , .	8.0	0
5301	Effects of g-C3N4 on the corrosion protection performance of polyvinyl butyral coatings. Progress in Organic Coatings, 2024, 187, 108139.	3.9	0
5302	A Review of the Recent Advances in Development of Noble Metalâ€Free Materials as Electrocatalysts for Hydrogen and Oxygen Evolution Reactions. ChemElectroChem, 0, , .	3.4	0
5303	Solarâ€Driven Continuous CO ₂ Reduction to CO and CH ₄ using Heterogeneous Photothermal Catalysts: Recent Progress and Remaining Challenges. ChemSusChem, 2024, 17, .	6.8	0
5305	Phosphomolybdic acid clusters and carbon nitride coloading on NH2-N-rGO for photocatalytic oxidation desulfurization. Journal of Environmental Chemical Engineering, 2024, 12, 111707.	6.7	0
5306	Photocatalytic Conversion of Carbon Dioxide and Nitrogen Dioxide: Current Developments, Challenges, and Perspectives. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
5307	Ultrafast and Broad-Band Graphene Heterojunction Photodetectors with High Gain. ACS Nano, 0, , .	14.6	1
5309	Recent Advances on g ₃ N ₄ Based Photocatalysts for Typical Antibiotics Photodegradation: Preparation, Mechanism and Influencing Factors. ChemistrySelect, 2023, 8, .	1.5	Ο

#	Article	IF	CITATIONS
5310	Synergistic Mechanism of ZnCr-LDHs/C- <i>g</i> -C ₃ N ₄ Photocatalyst for Efficient Degradation of Antibiotics under Visible Light. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
5311	Boosting visible-light photocatalytic NO removal by non-intrinsic oxygen vacancies in graphitic carbon nitride. Nano Energy, 2024, 121, 109197.	16.0	2
5312	NiFe-LDH/g-C ₃ N ₄ binary heterostructures with 2D/2D configuration for highly efficient photocatalytic degradation of antibiotics and hydrogen production. CrystEngComm, 2024, 26, 532-542.	2.6	1
5313	Evaluation of Bactericidal Potential and Catalytic Dye Degradation of Yttrium/Graphitic Carbon Nitride Doped Nickel Oxide Nanostructures. Journal of Inorganic and Organometallic Polymers and Materials, 0, , .	3.7	0
5314	Cation-exchange-upgraded nanostructures for photocatalysts. CheM, 2023, , .	11.7	0
5315	Response surface optimised photocatalytic degradation and quantitation of repurposed COVID-19 antibiotic pollutants in wastewaters; towards greenness and whiteness perspectives. Environmental Chemistry, 2023, 20, 268-280.	1.5	0
5316	Recent advances and perspective of g–C3N4– based materials for efficient solar fuel (hydrogen) generation via photocatalytic water-splitting. International Journal of Hydrogen Energy, 2023, , .	7.1	0
5317	Photocatalytic degradation by TiO2-conjugated/coordination polymer heterojunction: Preparation, mechanisms, and prospects. Applied Catalysis B: Environmental, 2024, 344, 123605.	20.2	4
5318	Nickel-decorated graphite phase carbon nitride photocatalysts coupled with carbazole-based calixarene dyes for high-efficiency visible light-driven hydrogen evolution. Dyes and Pigments, 2024, 222, 111904.	3.7	0
5319	Unveiling the electron-acceptor effect in selenium-doped Cu-N-C catalyst with atomically dispersed active sites for boosting Hg0 oxidation. Separation and Purification Technology, 2024, 334, 126078.	7.9	1
5320	Potassium Intercalated into Carbon Nitride Nanosheets as Bifunctional Catalysts for the Simultaneous Photosynthesis and Detection of Hydrogen Peroxide. ACS Applied Nano Materials, 0, , .	5.0	0
5321	Sustainable remediation technologies for removal of pesticides as organic micro-pollutants from water environments: A review. Applied Surface Science Advances, 2024, 19, 100558.	6.8	5
5322	Surface chemistry of graphitic carbon nitride: doping and plasmonic effect, and photocatalytic applications. , 2023, 1, .		3
5323	Facile fabrication of N-doped heterostructured hybrid particles based on montmorillonite incorporated with g-C3N4 for enhanced hydrogen production by NaBH4 in methanol. Diamond and Related Materials, 2024, 142, 110740.	3.9	0
5325	Unraveling the Synergistic Mechanism of Boosted Photocatalytic H ₂ O ₂ Production over Cyanoâ€gâ€C ₃ N ₄ /In ₂ S ₃ /Ppy Heterostructure and Enhanced Photocatalysisâ€Selfâ€Fenton Degradation Performance. Small, 0, , .	10.0	0
5326	C3N4-interlayer-mediated interfacial polymerization of homopolymer nanofiltration membranes for efficient water purification. Journal of Membrane Science, 2023, , 122350.	8.2	0
5327	In-situ construction of g-C3N4/WO3 heterojunction composite with significantly enhanced photocatalytic degradation performance. Journal of Physics and Chemistry of Solids, 2024, 187, 111852.	4.0	1
5328	Contemporary Progress on Photo-induced Green Hydrogen Evolution: Potential, Challenges, and Perspectives for the Hydrogen Energy based Economy -An Updated Review. Fuel, 2024, 361, 130654.	6.4	1

#	Article	IF	CITATIONS
5329	Improving the photocatalytic activity of graphitic carbon nitride through ionic liquid-mediated thermal annealing. Surfaces and Interfaces, 2024, 44, 103804.	3.0	0
5330	Photocatalytic degradation of methyl orange via supramolecular self-assembly of cucurbit[6]uril and phosphotungstic acid. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 0, , .	1.6	0
5331	The fabrication and application of triphase reaction interface based on superwettability for improved reaction efficiency. Journal of Materials Chemistry A, O, , .	10.3	0
5332	Two birds with one stone: Functionalized wood composites for efficient photocatalytic hydrogen production and solar water evaporation. Chinese Chemical Letters, 2023, , 109441.	9.0	0
5333	Development of nickel doped graphitic carbon nitride (GCN) photocatalyst for enhanced degradation of textile pollutant under visible light irradiation. Journal of Saudi Chemical Society, 2024, 28, 101801.	5.2	0
5334	Imogolite Nanotubes and Their Permanently Polarized Bifunctional Surfaces for Photocatalytic Hydrogen Production. Global Challenges, 0, , .	3.6	0
5335	Super Hydrophilic LaCoO3/g-C3N4 Nanocomposite Coated Beauty Sponge for Solar-driven Seawater Desalination with Simultaneous Volatile Organic Compound Removal. Nanoscale, 0, , .	5.6	0
5337	Sunlight-induced multifunctional photocatalyst of gold-deposited graphitic carbon nitride with enhanced efficiency of antibacterial, antiviral, and antibiotic degradation. Journal of Environmental Chemical Engineering, 2024, 12, 111810.	6.7	0
5338	Construction of BiVO4/g-C3N4 nanoheterostructures with enhanced hydrogen production performance under visible-light irradiation. Journal of Sol-Gel Science and Technology, 0, , .	2.4	0
5339	In Situ Fabrication and Characterization of g-C ₃ N ₄ onto Cellulose Nanofibers and Selective Separation of Heavy Metal Ions. ACS Omega, 0, , .	3.5	0
5340	The Design of Supramolecular Assemblies with Metal Salt as Precursors Enables The Growth of Stable Polymeric Carbon Nitride Photoanodes. Advanced Sustainable Systems, 0, , .	5.3	1
5341	Sulfur-doped g-C ₃ N ₄ photocatalyst for significantly steered visible light photocatalytic H ₂ evolution from water splitting. Catalysis Science and Technology, 2024, 14, 606-614.	4.1	0
5342	Research progress on Graphitic Carbon Nitride for the Removal of Sulfate from Mine Wastewater. , 0, 73, 459-463.		0
5343	Selective Hydrogenation of Cinnamaldehyde, Furanic, and Aromatic Aldehydes over a Z-Scheme Heterojunction Photocatalyst Constituted of Pd NPs Supported on g-C ₃ N ₄ /ZnO Nanocomposite. ACS Applied Nano Materials, 0, , .	5.0	0
5345	Highly efficient hydrogen production and selective CO ₂ reduction by the C ₃ N ₅ photocatalyst using only visible light. Physical Chemistry Chemical Physics, 2023, 26, 153-160.	2.8	0
5346	Exploring the Remarkably High Photocatalytic Efficiency of Ultra-Thin Porous Graphitic Carbon Nitride Nanosheets. Nanomaterials, 2024, 14, 103.	4.1	0
5347	Valorizing Glycerol into Valuable Chemicals Through Photocatalytic Processes Utilizing Innovative Nano-Photocatalysts. , 2024, , 149-234.		0
5348	A comprehensive review on the boosted effects of anion vacancy in the heterogeneous photocatalytic degradation, part I: Focus on sulfur, nitrogen, carbon, and halogen vacancies. Ecotoxicology and Environmental Safety, 2024, 269, 115927.	6.0	3

#	Article	IF	CITATIONS
5349	Progress and framework of clean energy production: Bibliometric analysis from 2002 to 2022. Energy Strategy Reviews, 2024, 52, 101270.	7.3	2
5350	The role of added oxidising agents in assisting the photocatalytic treatment of olive mill wastewater using a metal-free g-C3N4 optical semiconductor. Journal of Water Process Engineering, 2024, 58, 104722.	5.6	0
5351	Order–Disorder Engineering of Carbon Nitride for Photocatalytic H ₂ O ₂ Generation Coupled with Pollutant Removal. ACS Applied Materials & Interfaces, 2024, 16, 784-794.	8.0	1
5352	Graphitic carbon nitride (g-C3N4) as an efficient and recyclable catalyst for iodine-mediated RCMP. European Polymer Journal, 2024, 206, 112757.	5.4	0
5353	Facile Synthesis of CoO/Sm2O3@UiO-66-NH2/NF Composite as Efficient Photocatalysts for Oxygen Evolution Reaction. Jom, 2023, 75, 5420-5429.	1.9	0
5354	Advances/Scope and prospects of g-C3N4 derived fascinating photocatalyst as a leading route towards solar energy adaption. Journal of Cleaner Production, 2024, 438, 140568.	9.3	0
5355	High-performance photocatalytic and piezoelectric properties of two-dimensional transition metal oxyhalide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mi>ZrO </mml:mi> <mml:msub> <mml:< td=""><td>mið.X<td>ıl:oni><mml:r< td=""></mml:r<></td></td></mml:<></mml:msub></mml:mrow></mml:math 	m ið.X <td>ıl:oni><mml:r< td=""></mml:r<></td>	ıl :o ni> <mml:r< td=""></mml:r<>
5356	structures. Physical Review B, 2024, 109, . Synthesis of novel maghemite (Î ³ -Fe2O3)-decorated g-C3N4 nano-tubes (g-C3N4 NTs/Î ³ -Fe2O3) photocatalytic nano-composite for ultrafast degradation of organics in wastewater: Insight into the mechanism of photoexcited charge separation. Applied Surface Science Advances, 2023, 18, 100515.	6.8	2
5357	Boosted visible-light photocatalysis via p-n heterojunction synergy in 3D tin Sulfide-Graphitic carbon nitride nanohybrids. Inorganic Chemistry Communication, 2024, 160, 111870.	3.9	0
5358	Exclusive and Switchable Superoxide Radical Generation by O ₂ â€Captureâ€Based Electron Transfer and Supramolecular Assembly. Small, 0, , .	10.0	0
5359	Carbon nitride with water soluble ability: Enhanced oxygen species interphase mass transfer for homogenous photocatalytic water purification. Applied Surface Science, 2024, 652, 159352.	6.1	0
5360	Grinding preparation of 2D/2D g-C3N4/BiOCl with oxygen vacancy heterostructure for improved visible-light-driven photocatalysis. , 2024, 3, .		0
5361	The Role of Boron Dopant in the Improvement of Electron Transfer in g-C ₃ N ₄ Photocatalyst. Journal of Physical Chemistry C, 2024, 128, 894-907.	3.1	0
5362	Defect-steering the prominent thermal conduction, microwave absorption, and electrical insulation of porous g-C3N4 nanofibers. Carbon, 2024, 219, 118849.	10.3	1
5363	Photocatalytic Oxygen Reduction Reaction to Generate H2O2 Over Carbon-Based Nanosheet Catalysts. , 2024, , 95-147.		0
5364	Fabrication of UiO-66/GCN, a Hybrid Photocatalyst, for Effective Degradation of Ciprofloxacin, Toxicity Estimation, and Its Antibacterial Activity. Chemical Research in Toxicology, 2024, 37, 72-80.	3.3	0
5365	Efficiently Photocatalytic Activities of Novel Metal-free g-C3N4 Under Simulated Solar Irradiation: Removal Efficiency, Influence Factors, and Reaction Mechanism. Water, Air, and Soil Pollution, 2024, 235, .	2.4	0
5366	Recent advances in g-C3N4-based direct Z-scheme photocatalysts forÂenvironmental and energy applications. , 2024, 43, 100214.		0

#	Article	IF	CITATIONS
5367	Synergistic electronic structure modulation in single-atomic Ni sites dispersed on Ni nanoparticles encapsulated in N-rich carbon nanotubes synthesized at low temperature for efficient CO2 electrolysis. Applied Catalysis B: Environmental, 2024, 345, 123699.	20.2	0
5368	Theoretical insights into the mechanism of photocatalytic reduction of CO2 and water splitting over II-VI zinc chalcogenide semiconductor. Materials Today Sustainability, 2024, 25, 100686.	4.1	0
5369	Effect of dissolved organic matter on the inactivation of bacteriophage MS2 by graphitic carbon nitride - based photocatalysis. Journal of Environmental Chemical Engineering, 2024, 12, 112025.	6.7	0
5370	Photocatalytic Reforming of Biomass Components Using Systems Based on Graphite-Like Carbon Nitride: A Review. Theoretical and Experimental Chemistry, 2023, 59, 231-259.	0.8	0
5371	Recent advances on the incorporation of N into zero-valent and atomic iron for contaminants transformation. Coordination Chemistry Reviews, 2024, 505, 215671.	18.8	0
5372	Crystalline carbon nitrides for photocatalysis. , 2024, 2, 411-447.		1
5373	Regulation of the carrier migration path from type II to S-scheme over CdS-loaded CdWO4 polymorphs to boost photocatalytic H2 evolution. Journal of Catalysis, 2024, 430, 115318.	6.2	0
5374	Synergy of visible-light responsive photocatalytic materials and device engineering for energy and environment: Minireview on hydrogen production and water decontamination. , 2024, 4, 100040.		0
5375	Effect of ethylenediaminetetraacetic acid on the photocatalytic degradation of Rhodamine B under visible light irradiation using graphitic carbon nitride. Materials Today: Proceedings, 2023, 93, 79-85.	1.8	0
5376	General Method to Introduce π-Electrons into Oxygen-Doped Porous Carbon Nitride for Photocatalytic Hydrogen Evolution and Toluene Oxidation. ACS Sustainable Chemistry and Engineering, 2024, 12, 1051-1061.	6.7	0
5377	Atomic-level coordination structures meet graphitic carbon nitride (g-C3N4) for photocatalysis: Energy conversion and environmental remediation. Applied Catalysis B: Environmental, 2024, , 123683.	20.2	0
5378	Hierarchical Porous N-Doped Carbon Nanofibers with Encapsulated Li ₃ VO ₄ Nanoparticles for Lithium-Ion Storage. ACS Applied Nano Materials, 2024, 7, 827-835.	5.0	0
5379	Recent developments, advances and strategies in heterogeneous photocatalysts for water splitting. Nanoscale Advances, 2024, 6, 1286-1330.	4.6	0
5380	Rational construction of carbon-rich g-C3N4 wrapped over CePO4 nanorods: Oxygen vacancy mediated 1D/2D Z-scheme photocatalyst towards removal of congo red dye. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 684, 133142.	4.7	0
5381	Unveiling the mechanism of visible light-assisted peroxymonosulfate activation and carbamazepine degradation using NH ₂ -MIL-125(Ti)@MIL-53(Fe/Co) heterojunction photocatalyst. Environmental Science: Nano, 2024, 11, 389-405.	4.3	0
5382	Janus monolayer PXC (X = As/Sb) for photocatalytic water splitting with a negative Poisson's ratio. Physical Chemistry Chemical Physics, 2024, 26, 4564-4571.	2.8	0
5383	Novel double-layer core–shell photocatalyst CdS–TiO ₂ @NH ₂ -MIL-101: enhanced conversion of CO ₂ and CH ₄ at ambient temperature. , 2024, 2, 675-686.		0
5385	Defect-rich UiO-66@g-C ₃ N ₄ /Ni frameworks as efficient water splitting photocatalysts. Materials Advances, 2024, 5, 2785-2796.	5.4	0

#	Article	IF	CITATIONS
5387	Photoâ€Assisted Liâ€N ₂ Batteries with Enhanced Nitrogen Fixation and Energy Conversion. Angewandte Chemie - International Edition, 2024, 63, .	13.8	0
5388	Photoâ€Assisted Liâ€N ₂ Batteries with Enhanced Nitrogen Fixation and Energy Conversion. Angewandte Chemie, 2024, 136, .	2.0	0
5389	Exploring the Sensing Potential of g-C ₃ N ₄ versus Li/g-C ₃ N ₄ Nanoflakes toward Hazardous Organic Volatiles: A DFT Simulation Study. ACS Omega, 0, , .	3.5	0
5390	Engineering the axial coordination of cobalt single atom catalysts for efficient photocatalytic hydrogen evolution. Nano Research, 0, , .	10.4	0
5391	Cyano-modified poly(triazine imide) with extended π-conjugation for photocatalytic biological cofactor regeneration. Catalysis Science and Technology, 2024, 14, 903-911.	4.1	0
5392	Integrated Ozonation Ni-NiO/Carbon/g-C3N4 Nanocomposite-Mediated Catalytic Decomposition of Organic Contaminants in Wastewater under Visible Light. Nanomaterials, 2024, 14, 190.	4.1	0
5393	Porous In ₂ O ₃ Hollow Tube Infused with g-C ₃ N ₄ for CO ₂ Photocatalytic Reduction. ACS Applied Materials & amp; Interfaces, 2024, 16, 4581-4591.	8.0	1
5394	Boosted photocatalytic accomplishment of 3D/2D hierarchical structured Bi4O5I2/g-C3N4 p-n type direct Z-scheme heterojunction towards synchronous elimination of Cr(VI) and tetracycline. Diamond and Related Materials, 2024, 142, 110834.	3.9	1
5395	Embedding electronic perpetual motion into single-atom catalysts for persistent Fenton-like reactions. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.1	2
5396	Rational Design of Sâ€scheme Heterojunction Basedâ€Polymeric Carbon Nitride for Enhanced Photocatalytic Oxygen Reduction Reaction Performance. ChemCatChem, 0, , .	3.7	0
5397	Amino modulation on the surface of graphitic carbon nitride for enhanced photocatalytic hydrogen production. Carbon, 2024, 219, 118841.	10.3	0
5398	Nanozyme-enhanced ferroptosis for cancer treatment. Materials Chemistry Frontiers, 2024, 8, 1685-1702.	5.9	0
5399	β-cyclodextrin-based adsorbents integrated with N-doped TiO2 photocatalysts for boosting dye elimination of industrial wastewater. Surfaces and Interfaces, 2024, 45, 103901.	3.0	0
5400	Exploring g-C ₃ N ₄ as a green additive for biodegradable poly(butylene) Tj ETQq1 1 0.784 Advances, 2024, 14, 3611-3616.	4314 rgBT 3.6	/Overlock 1
5401	Nanostructuration Effect of Carbonâ€Based Phenylene Vinylene Conjugated Porous Polymers on TiO ₂ Hybrid Materials for Artificial Photosynthesis. Small Structures, 2024, 5, .	12.0	1
5402	Janus SMoZAZ′ (A = Si, Ge; Z, Z′ = N, P, As; Z ≠Z′) monolayers: potential water-splitting photocatalyst low carrier recombination rate. Catalysis Science and Technology, 2024, 14, 945-960.	with 4.1	0
5403	Carbon nitride in peroxide-coupled photocatalysis for aqueous organic pollutants destruction: Engineered active sites and electron transfer regimes. Applied Catalysis B: Environmental, 2024, 346, 123767.	20.2	0
5404	Efficient photocatalytic CO ₂ reduction coupled with selective styrene oxidation over a modified g-C ₃ N ₄ /BiOBr composite with high atom economy. Green Chemistry, 2024, 26, 2290-2299.	9.0	0

#	Article	IF	CITATIONS
5405	Enhancing the efficiency of magnetically driven carbon nitride–based nanocomposites with magnetic nanoflowers for the removal of methylene blue dye at neutral pH. Environmental Science and Pollution Research, 0, , .	5.3	0
5406	Photocatalyst degradation of perfluorooctanoic acid in water: Mechanisms, approaches, and perspectives. Separation and Purification Technology, 2024, 338, 126503.	7.9	0
5407	Porphyrin-Based Nanomaterials for the Photocatalytic Remediation of Wastewater: Recent Advances and Perspectives. Molecules, 2024, 29, 611.	3.8	0
5408	Bifunctional activation of peroxymonosulfate over CuS/g-C3N4 composite for efficient degradation of tetracycline antibiotics. Chemical Engineering Journal, 2024, 483, 149082.	12.7	0
5409	Efficient photocatalytic degradation of textile dye pollutants using thermally exfoliated graphitic carbon nitride (TE–g–C3N4). Scientific Reports, 2024, 14, .	3.3	0
5410	Recent progress and prospect of graphitic carbon nitride-based photocatalytic materials for inactivation of Microcystis aeruginosa. Science of the Total Environment, 2024, 917, 170357.	8.0	0
5411	Small variation induces a big difference: the effect of polymerization kinetics of graphitic carbon nitride on its photocatalytic activity. Dalton Transactions, 2024, 53, 4010-4019.	3.3	0
5412	Untangling the Effect of Carbonaceous Materials on the Photoelectrochemical Performance of BaTaO ₂ N. ACS Omega, 2024, 9, 7022-7033.	3.5	0
5413	K doped defective g-C3N4 decorated with cyano group for boosting visible-light driven photocatalytic removal of uranium. Separation and Purification Technology, 2024, 338, 126537.	7.9	0
5414	One-pot synthesis of defect engineered carbon nitride for highly efficient visible light photocatalysis. Journal of Materials Chemistry A, 2024, 12, 5204-5214.	10.3	0
5415	Progress of charge carrier dynamics and regulation strategies in 2D C _{<i>x</i>} N _{<i>y</i>} -based heterojunctions. Chemical Communications, 2024, 60, 2283-2300.	4.1	0
5416	Recent advances in cotton fabric-based photocatalytic composites for the degradation of organic contaminants. Carbohydrate Polymers, 2024, 332, 121872.	10.2	0
5417	In-situ synthesis of Z-scheme V2O3/S-doped g-C3N4 heterojunction for enhanced photocatalytic hydrogen production. Applied Surface Science, 2024, 654, 159518.	6.1	0
5418	Mechanistic insights into the adsorption and extraction of rare earth ions using oxygen- and phosphorus-doped porous graphitic carbon nitride. Journal of Environmental Chemical Engineering, 2024, 12, 112055.	6.7	0
5419	Preparation of nanostructured photocatalyst ZnSnO3@S-doped g-C3N4 and its use in DB1 dye degradation through photocatalytic ozonation process. Heliyon, 2024, 10, e25451.	3.2	0
5420	In-situ construction of Z-scheme silver phosphotungstate/polyimide photocatalysts and enhanced visible-light photocatalytic degradation of aflatoxin B1 in vegetable oil. Chemical Engineering Journal, 2024, 483, 149153.	12.7	0
5421	Unveiling the photocorrosion mechanism of zinc oxide photocatalyst: Interplay between surface corrosion and regeneration. Journal of Environmental Chemical Engineering, 2024, 12, 112102.	6.7	1
5422	Tailoring Metal-Ion-Doped Carbon Nitrides for Photocatalytic Oxygen Evolution Reaction. ACS Catalysis, 2024, 14, 2562-2571.	11.2	0

#	Article	IF	CITATIONS
5423	Optimizing Porosity and Heteroatom Functionalities in Amorphous Carbon-Rich g-C ₃ N ₄ for Dual-Mode Photocatalysis through Solar to Green Hydrogen and Chemical Energy Conversion. Journal of Physical Chemistry C, 2024, 128, 2338-2351.	3.1	0
5424	Enhancing the photocatalytic efficiency of sulfamethoxazole by regulating the band gap structure of g-C3N4 through phosphorus element doping. Journal of Water Process Engineering, 2024, 58, 104936.	5.6	0
5425	Covalent Organic Frameworks as Promising Platforms for Efficient Electrochemical Reduction of Carbon Dioxide: A Review. Small Structures, 2024, 5, .	12.0	0
5426	Mechanism of interface modulation of g-C3N4/β-ZrNBr S-type heterojunction to enhance photocatalytic performance. International Journal of Hydrogen Energy, 2024, 59, 1480-1490.	7.1	0
5427	Construction of isotype heterojunctions in polymeric carbon nitride with thermal modulation and improved photocatalytic hydrogen production activity. Materials Chemistry and Physics, 2024, 315, 129052.	4.0	1
5428	Construction of a g-C3N4/Bi(OH)3 Heterojunction for the Enhancement of Visible Light Photocatalytic Antibacterial Activity. International Journal of Molecular Sciences, 2024, 25, 1872.	4.1	0
5429	Visible-Light Photocatalytic H ₂ O ₂ Production Boosted by Frustrated Lewis Pairs in Defected Polymeric Carbon Nitride Nanosheets. ACS Catalysis, 2024, 14, 2775-2786.	11.2	0
5430	Nitrogenâ€Based Imperfections in Graphitic Carbon Nitride – New Trend for Enhancing Photocatalytic Activity?. ChemCatChem, 0, , .	3.7	0
5431	Photocatalytic Degradation of Rhodamine B via Fe-g-C3N4 Activated Sulfate Radical-Based Advanced Oxidation Processes and the Synergistic Mechanism. Korean Journal of Chemical Engineering, 2024, 41, 271-283.	2.7	0
5432	Efficient Visibleâ€Lightâ€Driven Carbon Dioxide Reduction using a Bioinspired Nickel Molecular Catalyst. ChemSusChem, 0, , .	6.8	0
5433	Insights on advanced gâ€C ₃ N ₄ in energy storage: Applications, challenges, and future. , 2024, 6, .		0
5434	Fabrication of g-C3N4/CuS heterojunction: A potential Z scheme photocatalyst for dye degradation in aqueous media under direct sunlight illumination. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 687, 133441.	4.7	0
5435	Computational Assessment of the Biocompatibility of Two-Dimensional g-C ₃ N ₃ Toward Lipid Membranes. ACS Applied Materials & Interfaces, 2024, 16, 8213-8227.	8.0	0
5436	Synergistic effect of dual phase cocatalysts: MoC-Mo2C quantum dots anchored on g-C3N4 for high-stability photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2024, 662, 870-882.	9.4	0
5437	Synergistic effect of donor-acceptor structure and built-in electric field in hollow-spherical carbon nitride homojunction towards effective charge transfer and excellent photocatalytic hydrogen evolution performance. Chemical Engineering Journal, 2024, 484, 149507.	12.7	0
5438	New breakthrough in rapid degradation of lignin derivative compounds · A novel high stable and reusable green organic photocatalyst. Journal of Colloid and Interface Science, 2024, 662, 426-437.	9.4	2
5439	Enhancing hydrogen evolution reaction using iridium atomic monolayer on conventional electrodes: A first-principles study. International Journal of Hydrogen Energy, 2024, 59, 982-990.	7.1	0
5440	Metal–organic framework heterojunctions for photocatalysis. Chemical Society Reviews, 2024, 53, 3002-3035.	38.1	0

#	Article	IF	CITATIONS
5441	Synergistic effects of ThO2 on g-C3N4/BiVO4 heterojunctions for enhanced photoelectrochemical (PEC) water splitting. International Journal of Hydrogen Energy, 2024, 59, 1063-1079.	7.1	0
5442	Utilising bauxite residue (red mud) to construct Z-type heterojunction for formaldehyde degradation. Journal of Cleaner Production, 2024, 444, 141280.	9.3	0
5443	A facile soft-hard template cooperative organization approach for mesoporous g-C3N4 with high photocatalytic performance. Applied Surface Science, 2024, 657, 159574.	6.1	0
5444	Efficient photoelectrocatalytic degradation of pollutants over hydrophobic carbon felt loaded with Fe-doped porous carbon nitride via direct activation of molecular oxygen. Environmental Research, 2024, 249, 118497.	7.5	2
5445	A density functional theory study on adsorption of SiHCl3-BCl3 by model molecules of g-C3N4. Materials Today Communications, 2024, 38, 108367.	1.9	0
5446	Heterogeneous Fenton oxidation of phenol photo-assisted with visible radiation in the presence of g-C3N4 catalysts modified with different iron phases. Chemical Engineering Journal, 2024, 485, 149766.	12.7	0
5447	Synthesis of high-surface-area C3N4 deposited on halloysite-derived silica nanotubes: Enhanced visible light degradation of norfloxacin. Catalysis Today, 2024, 432, 114584.	4.4	0
5448	Bismuth-Based Z-Scheme Heterojunction Photocatalysts for Remediation of Contaminated Water. ACS Omega, 2024, 9, 8709-8729.	3.5	0
5449	Atomic-level insights into bioinspired Fe/Ni bimetallic active sites on carbon nitrides for electrocatalytic O2 evolution. Chemical Engineering Journal, 2024, 485, 149799.	12.7	0
5450	Efficient water disinfection accelerated by polymerization-degree-controlled graphitic carbon nitride under visible light. Journal of Environmental Chemical Engineering, 2024, 12, 112247.	6.7	0
5452	The oxidative thermal exfoliation-dependent microstructure and photocatalytic performance of g-C3N4 nanosheets. Diamond and Related Materials, 2024, 143, 110918.	3.9	0
5453	Photocatalytic propylene epoxidation with O2 over 4,4′-dibromobenzophenone modified carbon nitride coupled with TS-1. Separation and Purification Technology, 2024, 341, 126837.	7.9	0
5454	Facile synthesis of N-doped carbon nanorods for antibiotics degradation via PMS activation: Mechanism insight and biotoxicity assessment. Separation and Purification Technology, 2024, 340, 126849.	7.9	0
5455	Photocatalytic Hydrogen Production from Pure Water Using a IEFâ€11/g ₃ N ₄ S‧cheme Heterojunction. ChemSusChem, 2024, 17, .	6.8	0
5456	The influence of morphological changes on the physicochemical and optical properties of g-C3N4. Ceramics International, 2024, 50, 17882-17889.	4.8	0
5457	<i>In situ</i> growth of N-doped carbon nanotubes from the products of graphitic carbon nitride etching by nickel nanoparticles. Nanoscale Advances, 2024, 6, 1720-1726.	4.6	0
5458	Visible-Light Driven Z-scheme g-C3N4/Fe-MOF Photocatalyst for Degradation of Organic Pollutants. Journal of Inorganic and Organometallic Polymers and Materials, 0, , .	3.7	0
5459	Solar light-driven photocatalytic degradation potential of g-C3N4 based binary chalcogenides (AgBiS2/g-C3N4). Materials Chemistry and Physics, 2024, 316, 129067.	4.0	0

#	Article	IF	CITATIONS
5460	Enhanced photocatalytic properties of s-triazine-based-g-C3N4/BlueP and g-C3N4/G/BlueP vdW heterostructures: A DFT study. Chemical Physics Letters, 2024, 841, 141163.	2.6	0
5461	Anthraquinone-Induced asymmetric antimony coordination center for selective O2 photoreduction to H2O2. Journal of Colloid and Interface Science, 2024, 663, 413-420.	9.4	0
5462	Quantum capacitance induced by electron orbital reconstruction of g-C3N4/Co3O4 heterojunction: Improving electrochemical performance. Journal of Colloid and Interface Science, 2024, 663, 478-490.	9.4	0
5463	Bio-based matrix photocatalysts for photodegradation of antibiotics. Photochemical and Photobiological Sciences, 2024, 23, 587-627.	2.9	0
5464	Layered carbon nitride films deposited under an oxygen-containing atmosphere and their electronic properties. AIP Advances, 2024, 14, .	1.3	0
5465	Non-Noble-Metal-Doped Carbon Nitride Photocatalysts for Water Splitting Screened Out by Empty Defect States and the d-Band Center. ACS Applied Materials & Interfaces, 2024, 16, 12455-12466.	8.0	0
5466	Design and engineering of 2D MXenes for point-of-care electrochemical detection of bioactive analytes and environmental pollutants. Coordination Chemistry Reviews, 2024, 507, 215746.	18.8	0
5467	Construction of High-Activity Nano-NiTiO3/g-C3N4 Composite Catalysts for Enhanced Photodegradation Activities under Visible Light. Separations, 2024, 11, 77.	2.4	0
5468	Green supply chain management influence on theÂeconomic and environmental aspectsÂin China. Environmental Science and Pollution Research, 2024, 31, 21144-21156.	5.3	0
5469	Phosphorylated g-C3N4/sulfur self-doped g-C3N4 homojunction carboxymethyl cellulose beads: An efficient photocatalyst for H2O2 production. Journal of Colloid and Interface Science, 2024, 663, 1087-1098.	9.4	0
5470	Remarkable Enhancement of Photocatalytic Activity of High-Energy TiO ₂ Nanocrystals for NO Oxidation through Surface Defluorination. ACS Applied Materials & Interfaces, 2024, 16, 11479-11488.	8.0	0
5471	Engineering of g-C3N4-based composites for photocatalytic and electrocatalytic water splitting: Recent progress, challenges and perspective. Coordination Chemistry Reviews, 2024, 507, 215752.	18.8	0
5472	Photocatalytic Optical Hollow Fiber with Enhanced Visibleâ€lightâ€driven CO ₂ Reduction. Small, 0, , .	10.0	0
5473	Porous C3N4 nanosheet supported Au single atoms as an efficient catalyst for enhanced photoreduction of CO2 to CO. Journal of Catalysis, 2024, 432, 115405.	6.2	0
5474	A molecular view of single-atom catalysis toward carbon dioxide conversion. Chemical Science, 2024, 15, 4631-4708.	7.4	0
5475	Building a Charge Transfer Bridge between g-C ₃ N ₄ and Perovskite with Molecular Engineering to Achieve Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2024, 16, 13815-13827.	8.0	0
5476	Unique synergistic effects of ternary multi-dimensional CNT/g-C3N4/MoS2 hybrid as a paraffin oil additive for improved tribological properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 689, 133635.	4.7	0
5477	Metal-organic framework Cu-BTC for overall water splitting: A density functional theory study. Chinese Chemical Letters, 2024, , 109720.	9.0	0

#	Article	IF	CITATIONS
5478	Highly photocatalytic titanium oxide/Carbon nitride heterojunctions obtained via dual asymmetric centrifugation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2024, 303, 117298.	3.5	0
5479	C ₃ N ₅ -based nanomaterials and their applications in heterogeneous catalysts, energy harvesting, and environmental remediation. Materials Horizons, 0, , .	12.2	0
5481	Sensitive humidity sensor based on moisture-driven energy generation. Nano Research, 0, , .	10.4	0
5482	2D/2D layered BiOIO3/g-C3N4 S-scheme heterojunction for photocatalytic NO oxidation. Journal of Materials Science and Technology, 2024, 196, 40-49.	10.7	0
5483	Flexible Triboelectric Nanogenerators based on Hydrogel/g-C ₃ N ₄ Composites for Biomechanical Energy Harvesting and Self-Powered Sensing. ACS Applied Materials & Interfaces, 2024, 16, 13674-13684.	8.0	0
5484	Graphitic carbon nitride as a metal free photocatalyst for solar water splitting. , 2024, , 347-380.		0
5485	Manipulating photogenerated electron flow in nickel singleâ€atom catalysts for photocatalytic CO ₂ reduction into tunable syngas. , 0, , .		0
5486	N and O vacancies regulation over semiconductor heterojunction to synergistically boost photocatalytic hydrogen peroxide production. Journal of Materials Science and Technology, 2024, 196, 237-247.	10.7	0
5487	Boosting visible-light-driven hydrogen evolution through Pt site anchored 2D/2D heterostructure catalyst: Cd-TCPP(Pt)@CdS. Green Chemical Engineering, 2024, , .	6.3	0
5488	Regulation of structural defects in polymer carbon nitrides via inhibited polymerization process for enhanced photocatalytic hydrogen production. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 689, 133729.	4.7	0
5489	Fabrication of g-C3N4 nanosheet anchored NiZn2O4 nanocomposites for enhanced photocatalytic dye degradation. Chemical Physics Letters, 2024, 842, 141206.	2.6	0
5490	Saltâ€melt synthesis of poly(heptazine imide) in binary alkali metal bromides for enhanced visibleâ€light photocatalytic hydrogen production. , 0, , .		0
5491	High sensitivity of s-triazine based g-C3N4 surface to pollutant gases. Applied Surface Science, 2024, 659, 159926.	6.1	0
5492	Effect of alkali metal cation doping in graphitic carbon nitride towards photocatalytic generation of hydrogen peroxide under direct sunlight. Catalysis Communications, 2024, 187, 106909.	3.3	0
5493	Enhancement of Pb(<scp>ii</scp>) adsorptive removal by incorporation of UiO-66-COOH into the magnetic graphitic carbon nitride nanosheets. RSC Advances, 2024, 14, 8990-9002.	3.6	0
5494	Highly active Pd nanoparticles decorated on benzeneâ€ring doped g ₃ N ₄ as catalyst in methylene Blue degradation and Cr (VI) ions reduction. Applied Organometallic Chemistry, 2024, 38, .	3.5	0
5495	Microstructure driven charge carrier separation in superior thin g-C3N4 nanosheets towards enhanced photocatalytic activities. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 689, 133759.	4.7	0
5496	Reveal long-lived hot electrons in 2D indium selenide and ferroelectric-regulated carrier dynamics of InSe/ <i>i)±</i> -In2Se3/InSe heterostructure. Journal of Chemical Physics, 2024, 160,	3.0	0

#	Article	IF	CITATIONS
5497	Charge Trapping in Semiconductor Photocatalysts: A Time- and Space-Domain Perspective. Journal of the American Chemical Society, 2024, 146, 8787-8799.	13.7	0
5499	Unlocking Exceptional CO ₂ Reduction Selectivity at Neutral Conditions: A First-Principles Study on Chlorinated Single Iron Doped Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2024, 128, 5505-5514.	3.1	0
5500	Synthesis of Fe(III)-g-C3N4 and Applications of Synergistic Catalyzed PMS with Mn(VII) for Methylene Blue Degradation. Sustainability, 2024, 16, 2364.	3.2	0
5501	Removal of sulfonylurea herbicides with g–C3N4–based photocatalysts: A review. Chemosphere, 2024, 354, 141742.	8.2	0
5502	High activity and CH4 selectivity for photocatalytic CO2 reduction by Cu modified C3N4 nanotubes. Chemical Physics Letters, 2024, 842, 141225.	2.6	0
5503	Highly efficient <i>inâ€situ</i> sulfur doped graphitic carbon nitride nanoplates as an artificial photosynthetic system for <scp>NADH</scp> regeneration. , 2021, 59, 590-598.		0
5505	Visible light-driven C–H arylation of heteroarenes with aryl diazonium salts in water catalyzed by a Z-scheme CuInS ₂ /K-C ₃ N ₄ heterojunction. Green Chemistry, 2024, 26, 4803-4810.	9.0	0