

Graphitic Carbon Nitride (g-C₃N₄) Artificial Photosynthesis and Environmental Remediation Achieving Sustainability?

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
4	Origin of Activity and Stability Enhancement for Ag ₃ PO ₄ Photocatalyst after Calcination. <i>Materials</i> , 2016, 9, 968.	1.3	50
5	Photocatalytic Water Splitting—The Untamed Dream: A Review of Recent Advances. <i>Molecules</i> , 2016, 21, 900.	1.7	447
6	Manganese functionalized mesoporous molecular sieves Ti-HMS as a Fenton-like catalyst for dyes wastewater purification by advanced oxidation processes. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4653-4660.	3.3	18
7	Disentangling the Photocatalytic Hydrogen Evolution Mechanism of One Homogeneous Cobalt-Coordinated Polymer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28456-28462.	1.5	11
8	Two-dimensional ZnO ultrathin nanosheets decorated with Au nanoparticles for effective photocatalysis. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	23
9	Insights into enhanced visible-light photocatalytic activity of C ₆₀ modified g-C ₃ N ₄ hybrids: the role of nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33094-33102.	1.3	31
10	Photogenerated carriers enhancement in Cu-doped ZnSe/ZnS/L-cys self-assembled core-shell quantum dots. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	9
11	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. <i>Applied Materials Today</i> , 2016, 4, 9-16.	2.3	110
12	Electrocatalytic hydrogen evolution using the MS ₂ @MoS ₂ /rGO (M = Fe or Ni) hybrid catalyst. <i>Chemical Communications</i> , 2016, 52, 11795-11798.	2.2	36
13	Multifunctional redox-tuned viologen-based covalent organic polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15361-15369.	5.2	114
14	Oxygen-deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO ₂ Reduction into Renewable Carbon-Neutral Fuels. <i>ChemCatChem</i> , 2016, 8, 3074-3081.	1.8	120
15	Catalytic properties of CuMgAlO catalyst and degradation mechanism in CWPO of methyl orange. <i>Applied Catalysis A: General</i> , 2016, 527, 72-80.	2.2	63
16	Metal/Graphitic Carbon Nitride Composites: Synthesis, Structures, and Applications. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3305-3328.	1.7	102
17	Copyrolysed C ₃ N ₄ @Ag/ZnO Ternary Heterostructure Systems for Enhanced Adsorption and Photocatalytic Degradation of Tetracycline. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5068-5076.	1.0	60
18	(NH ₄) ₂ SO ₄ -assisted polycondensation of dicyandiamide for porous g-C ₃ N ₄ with enhanced photocatalytic NO removal. <i>RSC Advances</i> , 2016, 6, 96334-96338.	1.7	19
19	Synthesis and characterization of two-dimensional carbon dots decorated with molybdenum oxide nanoflakes with various phases. <i>New Journal of Chemistry</i> , 2016, 40, 8954-8960.	1.4	9
20	Efficient charge separation promoting visible-light-driven photocatalytic activity of MnO _x decorated WS ₂ hybrid nanosheets. <i>Electrochemistry Communications</i> , 2016, 72, 118-121.	2.3	19
21	Aggregative growth of quasi-octahedral iron pyrite mesocrystals in a polyol solution through oriented attachment. <i>CrystEngComm</i> , 2016, 18, 8823-8828.	1.3	12

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23	Highly efficient three-dimensional flower-like AgI/Bi ₂ O ₂ CO ₃ heterojunction with enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 688, 225-234.	2.8	42
24	Strategic Preparation of Efficient and Durable NiCo Alloy Supported N-Doped Porous Graphene as an Oxygen Evolution Electrocatalyst: A Theoretical and Experimental Investigation. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600532.	1.9	50
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26	The synthesis of elegant hierarchical CdS via a facile hydrothermal method assisted by inorganic salt, with photocorrosion inhibition. <i>CrystEngComm</i> , 2016, 18, 7523-7529.	1.3	12
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31	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. <i>ChemSusChem</i> , 2016, 9, 2723-2735.	3.6	96
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33	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. <i>Nano Letters</i> , 2016, 16, 6568-6575.	4.5	108
34	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. <i>Catalysis Science and Technology</i> , 2016, 6, 7002-7023.	2.1	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 and 0.04Bi ₄ Si ₃ O ₁₅ piezoelectric nanofibers. <i>RSC Advances</i> , 2016, 6, 66451-66456.	4.1	11
36	Hybrid 0D/2D Nanoheterostructures: In Situ Growth of Amorphous Silver Silicates Dots on g-C ₃ N ₄ Nanosheets for Full-Spectrum Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35138-35149.	4.0	111
37	Sulfur-Mediated Self-Templating Synthesis of Tapered C-PAN/g-C ₃ N ₄ Composite Nanotubes toward Efficient Photocatalytic H ₂ Evolution. <i>ACS Energy Letters</i> , 2016, 1, 969-975.	8.8	86
38	Metal-free half-metallicity in a high energy phase C-doped g-C ₃ N ₄ system: a high Curie temperature planar system. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11530-11539.	2.7	32
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41	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. <i>Environmental Science & Technology</i> , 2016, 50, 12938-12948.	4.6	261
42	Preparation of preferentially exposed poison-resistant Pt(111) nanoplates with a nitrogen-doped graphene aerogel. <i>Chemical Communications</i> , 2016, 52, 13815-13818.	2.2	22
43	Cubic mesoporous Ag@CN: a high performance humidity sensor. <i>Nanoscale</i> , 2016, 8, 19794-19803.	2.8	109
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46	Design of a photoelectrochemical device for the selective conversion of aqueous CO ₂ to CO: using mesoporous palladium-copper bimetallic cathode and hierarchical ZnO-based nanowire array photoanode. <i>Chemical Communications</i> , 2016, 52, 8235-8238.	2.2	32
47	A srikaya-like light-harvesting antenna based on graphene quantum dots and porphyrin unimolecular micelles. <i>Chemical Communications</i> , 2016, 52, 9394-9397.	2.2	30
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54	Boosting Visible-Light-Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide-Carbon Nitride System. <i>Angewandte Chemie</i> , 2017, 129, 1675-1679.	1.6	57
55	Boosting Visible-Light-Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide-Carbon Nitride System. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1653-1657.	7.2	261
56	Magnetically separable photocatalyst of direct Z-scheme g-C ₃ N ₄ nanosheets/natural hematite ore hybrids. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 336, 156-163.	2.0	29
57	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4558-4569.	4.0	128

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58	Highly enhanced photocatalytic degradation of methylene blue over the indirect all-solid-state Z-scheme g-C ₃ N ₄ -RGO-TiO ₂ nanoheterojunctions. <i>Applied Surface Science</i> , 2017, 405, 60-70.	3.1	328
59	Facile Fabrication of Large-Aspect-Ratio g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2039-2043.	3.2	104
60	An in situ photoelectroreduction approach to fabricate Bi/BiOCl heterostructure photocathodes: understanding the role of Bi metal for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4894-4903.	5.2	96
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62	Hierarchical Porous N-Doped g-C ₃ N ₄ with Enhanced Photocatalytic CO ₂ Reduction Activity. <i>Small</i> , 2017, 13, 1603938.	5.2	1,025
63	Influence of functional groups on water splitting in carbon nanodot and graphitic carbon nitride composites: a theoretical mechanism study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4997-5003.	1.3	34
64	Photoelectrochemical immunosensing platform for M. Sssl methyltransferase activity analysis and inhibitor screening based on g-C ₃ N ₄ and CdS quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 458-465.	4.0	50
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70	Oxygen defects-mediated Z-scheme charge separation in g-C ₃ N ₄ /ZnO photocatalysts for enhanced visible-light degradation of 4-chlorophenol and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 406-416.	10.8	333
71	Graphitic C ₃ N ₄ based noble-metal-free photocatalyst systems: A review. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 556-588.	10.8	575
72	Organic salt induced electrospinning gradient effect: Achievement of BiVO ₄ nanotubes with promoted photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2017, 208, 14-21.	10.8	60
73	Heterogeneous catalytic conversion of CO ₂ and epoxides to cyclic carbonates over multifunctional tri-s-triazine terminal-linked ionic liquids. <i>Journal of Catalysis</i> , 2017, 347, 138-147.	3.1	122
74	Role of precursors on the photophysical properties of carbon nitride and its application for antibiotic degradation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8609-8618.	2.7	77
75	Tailoring the bandgap of N-rich graphitic carbon nitride for enhanced photocatalytic activity. <i>Ceramics International</i> , 2017, 43, 6437-6445.	2.3	33

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79	Graphitic carbon nitride with S and O codoping for enhanced visible light photocatalytic performance. <i>RSC Advances</i> , 2017, 7, 15842-15850.	1.7	107
80	Mimicking Horseradish Peroxidase Functions Using Cu ²⁺ -Modified Carbon Nitride Nanoparticles or Cu ²⁺ -Modified Carbon Dots as Heterogeneous Catalysts. <i>ACS Nano</i> , 2017, 11, 3247-3253.	7.3	279
81	Two-Dimensional (2D) Nanomaterials towards Electrochemical Nanoarchitectonics in Energy-Related Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 627-648.	2.0	369
82	A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3992-3996.	7.2	374
83	High activity of hot electrons from bulk 3D graphene materials for efficient photocatalytic hydrogen production. <i>Nano Research</i> , 2017, 10, 1662-1672.	5.8	49
84	Unravelling charge carrier dynamics in protonated g-C ₃ N ₄ interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO ₂ reduction: A combined experimental and first-principles DFT study. <i>Nano Research</i> , 2017, 10, 1673-1696.	5.8	376
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87	Simple and Large Scale Construction of MoS ₂ -g-C ₃ N ₄ Heterostructures Using Mechanochemistry for High Performance Electrochemical Supercapacitor and Visible Light Photocatalytic Applications. <i>Scientific Reports</i> , 2017, 7, 43055.	1.6	157
88	A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for Photoredox Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 4050-4054.	1.6	87
89	Design of 3-Dimensional Hierarchical Architectures of Carbon and Highly Active Transition Metals (Fe, Tj ETQq1 1 0.784314 rgBT /Overl 2017, 29, 1665-1675.	3.2	104
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91	The origin of the enhanced photocatalytic activity of carbon nitride nanotubes: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4827-4834.	5.2	50
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95	2D Organic ²⁺ -Inorganic Hybrid Thin Films for Flexible UV ²⁺ -Visible Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1605554.	7.8	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. <i>Sustainable Energy and Fuels</i> , 2017, 1, 510-519.	2.5	59
97	Noble ⁺ -Metal ⁻ Free Metallic Glass as a Highly Active and Stable Bifunctional Electrocatalyst for Water Splitting. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601086.	1.9	60
98	Vapor-Phase Selective Oxidation of Toluene Catalyzed by Graphitic Carbon Nitride Supported Vanadium Oxide. <i>Catalysis Letters</i> , 2017, 147, 509-516.	1.4	11
99	Three-dimensional photocatalysts with a network structure. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5661-5679.	5.2	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. <i>Analytical Chemistry</i> , 2017, 89, 4978-4985.	3.2	34
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105	Optimization of the Photo ⁺ -Electrochemical Performance of Mo ⁺ -Doped BiVO ₄ Photoanode by Controlling the Metal ⁺ -Oxygen Bond State on (020) Facet. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601235.	1.9	44
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107	Carbon nanotube/metal-sulfide composite flexible electrodes for high-performance quantum dot-sensitized solar cells and supercapacitors. <i>Scientific Reports</i> , 2017, 7, 46519.	1.6	134
108	Adsorptive removal of herbicides from water over nitrogen-doped carbon obtained from ionic liquid@ZIF-8. <i>Chemical Engineering Journal</i> , 2017, 323, 203-211.	6.6	112
109	In situ DRIFT investigation on the photocatalytic NO oxidation mechanism with thermally exfoliated porous g-C ₃ N ₄ nanosheets. <i>RSC Advances</i> , 2017, 7, 19280-19287.	1.7	23
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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.	2.2	39
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115	Compact and uniform TiO ₂ @g-C ₃ N ₄ core-shell quantum heterojunction for photocatalytic degradation of tetracycline antibiotics. Applied Catalysis B: Environmental, 2017, 217, 57-64.	10.8	298
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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.	1.0	22
118	Synthesis of Ni ₉ S ₈ /MoS ₂ heterocatalyst for Enhanced Hydrogen Evolution Reaction. Langmuir, 2017, 33, 5148-5153.	1.6	39
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122	MOF-templated Synthesis of Ultrasmall Photoluminescent Carbon Nanodot Arrays for Optical Applications. Angewandte Chemie, 2017, 129, 6957-6962.	1.6	17
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127	Role of C _x N _y -triazine in Photocatalysis for Efficient Hydrogen Generation and Organic Pollutant Degradation Under Solar Light Irradiation. Solar Rrl, 2017, 1, 1700012.	3.1	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.	3.1	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.	5.0	129

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130	Fabrication of mesoporous BaTiO ₃ /SnO ₂ nanorods with highly enhanced photocatalytic degradation of organic pollutants. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 201-212.	2.9	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. <i>Chemical Engineering Journal</i> , 2017, 323, 260-269.	6.6	243
132	Facile synthesis of Ti ³⁺ -doped Ag/AgI/TiO ₂ nanoparticles with efficient visible-light photocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13031-13038.	3.8	21
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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1188	Updating a search strategy to track emerging nanotechnologies. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	23
1189	Suppressed Carrier Recombination in Janus MoSSe Bilayer Stacks: A Time-Domain Ab Initio Study. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5564-5570.	2.1	23
1190	2D/3D interface engineering: direct Z-scheme g-C ₃ N ₄ /YMnO ₃ heterojunction for reinforced visible-light photocatalytic oxidation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17601-17611.	1.1	18
1191	Facile synthesis of C-doped hollow spherical g-C ₃ N ₄ from supramolecular self-assembly for enhanced photoredox water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25671-25679.	3.8	66
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1193	Plasmonic Gold Nanoprismâ€“Cobalt Molecular Complex Dyad Mimics Photosystem-II for Visibleâ€“NIR Illuminated Neutral Water Oxidation. <i>ACS Energy Letters</i> , 2019, 4, 2428-2435.	8.8	19
1194	Câ€“H activation derived CPPs for photocatalytic hydrogen production excellently accelerated by a DMF cosolvent. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24222-24230.	5.2	73
1195	Porous nanosheets of carbon-conjugated graphitic carbon nitride for the oxidation of H ₂ S to elemental sulfur. <i>Carbon</i> , 2019, 155, 204-214.	5.4	51
1196	Tailoring of crystalline structure of carbon nitride for superior photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 324-334.	5.0	20
1197	Structure Tuning of Polymeric Carbon Nitride for Solar Energy Conversion: From Nano to Molecular Scale. <i>CheM</i> , 2019, 5, 2775-2813.	5.8	78
1198	Controllable fabrication of a red phosphorus modified g-C ₃ N ₄ photocatalyst with strong interfacial binding for the efficient removal of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151885.	2.8	29
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1201	Palygorskite/g-C ₃ N ₄ conjunction for visible-light-driven degradation of tetracycline hydrochloride. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18159-18167.	1.1	5
1202	Enhanced charge separation and interfacial charge transfer of InGaN nanorods/C ₃ N ₄ heterojunction photoanode. <i>Electrochimica Acta</i> , 2019, 324, 134844.	2.6	17
1203	Carbon nitride and titania nanoparticles prepared using porous silica templates and photocatalytic activity. <i>Materials Letters</i> , 2019, 256, 126600.	1.3	3
1204	Two-Dimensional COF with Rather Low Exciton Binding Energies Comparable to 3D Inorganic Semiconductors in the Visible Range for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24626-24633.	1.5	11
1205	First-principles investigations of the stability and electronic properties of fluorinated Janus MoSSe monolayer. <i>Journal of Theoretical and Computational Chemistry</i> , 2019, 18, 1950024.	1.8	7
1206	Visible-light induced emulsion photopolymerization with carbon nitride as a stabilizer and photoinitiator. <i>Polymer Chemistry</i> , 2019, 10, 5315-5323.	1.9	44
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1208	Hydrogen peroxide-assisted synthesis of oxygen-doped carbon nitride nanorods for enhanced photocatalytic hydrogen evolution. <i>RSC Advances</i> , 2019, 9, 28421-28431.	1.7	6
1209	Affinity-Based Detection of Biomolecules Using Photo-Electrochemical Readout. <i>Frontiers in Chemistry</i> , 2019, 7, 617.	1.8	39
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1212	Time resolved fluorescence properties of thermally stable graphitic carbon nitride. <i>Ceramics International</i> , 2019, 45, 21034-21037.	2.3	4
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1219	Solar-driven conversion of arylboronic acids to phenols using metal-free heterogeneous photocatalysts. <i>Journal of Catalysis</i> , 2019, 378, 63-67.	3.1	15
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1223	Porous organic polymer composites as surging catalysts for visible-light-driven chemical transformations and pollutant degradation. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 41, 100319.	5.6	32
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1234	Ternary catalysts based on amino-functionalized carbon quantum dots, graphitic carbon nitride nanosheets and cobalt complex for efficient H ₂ evolution under visible light irradiation. <i>Carbon</i> , 2019, 145, 488-500.	5.4	51
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1237	Facile preparation of graphitic-C ₃ N ₄ quantum dots for application in two-photon imaging. <i>New Journal of Chemistry</i> , 2019, 43, 3174-3179.	1.4	16
1238	Graphitic carbon nitride based materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 901-924.	5.2	178
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1255	Montmorillonite-hybridized g-C ₃ N ₄ composite modified by NiCoP cocatalyst for efficient visible-light-driven photocatalytic hydrogen evolution by dye-sensitization. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4114-4122.	3.8	48
1256	Combined theoretical and experimental characterizations of semiconductors for photoelectrocatalytic applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 40, 212-233.	5.6	29
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1261	Solid salt confinement effect: An effective strategy to fabricate high crystalline polymer carbon nitride for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 349-355.	10.8	136
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1274	A squaraine-linked metalloporphyrin two-dimensional polymer photocatalyst for hydrogen and oxygen evolution reactions. <i>Chemical Communications</i> , 2019, 55, 1627-1630.	2.2	22
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1454	Enhanced organic pollutant photodegradation via adsorption/photocatalysis synergy using a 3D g-C ₃ N ₄ /TiO ₂ free-separation photocatalyst. <i>Chemical Engineering Journal</i> , 2019, 370, 287-294.	6.6	258
1455	Facile and green synthesis of copper nanoparticles loaded on the amorphous carbon nitride for the oxidation of cyclohexane. <i>Chemical Engineering Journal</i> , 2019, 370, 1310-1321.	6.6	76
1456	Synthesis of silver-loaded ZnO nanorods and their enhanced photocatalytic activity and photoconductivity study. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1503-1511.	1.6	48
1457	Synthesis and Photocatalytic Activity of Fluorine DOPED-g-C ₃ N ₄ @ Bi ₂ S ₃ . <i>Applied Mechanics and Materials</i> , 0, 889, 24-32.	0.2	15
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1459	Further activation of g-C ₃ N ₄ with less N-H defects for enhancing photocatalytic hydrogen evolution. <i>Catalysis Communications</i> , 2019, 125, 114-117.	1.6	2
1460	A thiophene-modified double-shell hollow g-C ₃ N ₄ nanosphere boosts NADH regeneration <i>via</i> synergistic enhancement of charge excitation and separation. <i>Catalysis Science and Technology</i> , 2019, 9, 1911-1921.	2.1	35
1461	Atomically dispersed Mo atoms on amorphous g-C ₃ N ₄ promotes visible-light absorption and charge carriers transfer. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 273-279.	10.8	92
1462	Heptazine-based porous polymer for selective CO ₂ sorption and visible light photocatalytic oxidation of benzyl alcohol. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 9-14.	2.2	12
1463	A "ship-in-a-bottle" strategy to fabricate highly crystallized nanoporous graphitic C ₃ N ₄ microspheres under pressurized conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8952-8959.	5.2	37
1464	Enhanced photocatalytic H ₂ production over dual-cocatalyst-modified g-C ₃ N ₄ heterojunctions. <i>Chinese Journal of Catalysis</i> , 2019, 40, 434-445.	6.9	133
1465	Synthesis of Porous Boron-Doped Carbon Nitride: Adsorption Capacity and Photo-Regeneration Properties. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 581.	1.2	13
1466	Effect of the intra- and inter-triazine N-vacancies on the photocatalytic hydrogen evolution of graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2019, 369, 263-271.	6.6	55
1467	Challenges of Synthesis and Environmental Applications of Metal-Free Nano-heterojunctions. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 107-138.	0.3	0
1468	Carbon Nitride: A Wonder Photocatalyst. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 167-209.	0.3	1
1469	Novelty in Designing of Photocatalysts for Water Splitting and CO ₂ Reduction. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 41-65.	0.3	1
1470	Electrochemical Properties of Polyoxometalate (H ₃ PMo ₁₂ O ₄₀)-Functionalized Graphitic Carbon Nitride (g-C ₃ N ₄). <i>Electrocatalysis</i> , 2019, 10, 392-398.	1.5	11

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1472	Fe-Se nanorods composited g-C ₃ N ₄ with enhanced photocatalytic efficiency. <i>Royal Society Open Science</i> , 2019, 6, 181886.	1.1	6
1473	Self-Sacrificial Template-Directed Vapor-Phase Growth of MOF Assemblies and Surface Vulcanization for Efficient Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1806672.	11.1	248
1474	Graphene quantum dots decorated graphitic carbon nitride nanorods for photocatalytic removal of antibiotics. <i>Journal of Colloid and Interface Science</i> , 2019, 548, 56-65.	5.0	148
1475	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11584-11612.	5.2	174
1476	Photocatalytic degradation of real industrial poultry wastewater via platinum decorated BiVO ₄ /g-C ₃ N ₄ photocatalyst under solar light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 378, 46-56.	2.0	40
1477	Facile band alignment of C ₃ N ₄ /CdS/MoS ₂ sandwich hybrid for efficient charge separation and high photochemical performance under visible-light. <i>Powder Technology</i> , 2019, 351, 222-228.	2.1	18
1478	Potential-Resolved Electrochemiluminescence Nanoprobes for Visual Apoptosis Evaluation at Single-Cell Level. <i>Analytical Chemistry</i> , 2019, 91, 6363-6370.	3.2	52
1479	Visible-light-driven photoreduction of CO ₂ to CO over porous nitrogen-deficient carbon nitride nanotubes. <i>Catalysis Science and Technology</i> , 2019, 9, 2485-2492.	2.1	26
1480	N,N-Dimethylformamide assisted hydrothermal introduction of MoS ₂ on ultrathin g-C ₃ N ₄ layers with enhanced visible light photocatalytic hydrogen evolution activity. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1461-1467.	2.5	21
1481	Facile one-step synthesis of graphitic carbon nitride-modified biochar for the removal of reactive red 120 through adsorption and photocatalytic degradation. <i>Biochar</i> , 2019, 1, 89-96.	6.2	50
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1484	Physical vapor deposition (PVD): a method to fabricate modified g-C ₃ N ₄ sheets. <i>New Journal of Chemistry</i> , 2019, 43, 6683-6687.	1.4	14
1485	Controllable assembly of single/double-thin-shell g-C ₃ N ₄ vesicles via a shape-selective solid-state templating method for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17815-17822.	5.2	33
1486	Homogeneous Doping of Substitutional Nitrogen/Carbon in TiO ₂ Plates for Visible Light Photocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1901943.	7.8	61
1487	Preparation of highly dispersed WO ₃ /few layer g-C ₃ N ₄ and its enhancement of catalytic oxidative desulfurization activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 572, 250-258.	2.3	49
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#	ARTICLE	IF	CITATIONS
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1533	A general strategy <i>via</i> chemically covalent combination for constructing heterostructured catalysts with enhanced photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2019, 55, 4150-4153.	2.2	45
1534	Nanoparticle-Hydrogel Composites: From Molecular Interactions to Macroscopic Behavior. <i>Polymers</i> , 2019, 11, 275.	2.0	142
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1579	Composition-Controlled CdS/ZnS Heterostructure Nanocomposites for Efficient Visible Light Photocatalytic Hydrogen Generation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22709-22717.	1.8	35

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1581	Tunable Electronic Properties of Graphene/g-AlN Heterostructure: The Effect of Vacancy and Strain Engineering. <i>Nanomaterials</i> , 2019, 9, 1674.	1.9	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. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-9.	1.4	5
1583	A voltammetric sensor for simultaneous determination of hydroquinone and catechol by using a heterojunction prepared from gold nanoparticle and graphitic carbon nitride. <i>Mikrochimica Acta</i> , 2019, 186, 819.	2.5	19
1584	Metal-organic framework derived Co@NC/CNT hybrid as a multifunctional electrocatalyst for hydrogen and oxygen evolution reaction and oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 32054-32065.	3.8	65
1585	Rational Ionothermal Copolymerization of TCNQ with PCN Semiconductor for Enhanced Photocatalytic Full Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46756-46766.	4.0	56
1586	Recent Strategies for Hydrogen Peroxide Production by Metal-Free Carbon Nitride Photocatalysts. <i>Catalysts</i> , 2019, 9, 990.	1.6	50
1587	How g-C ₃ N ₄ Works and Is Different from TiO ₂ as an Environmental Photocatalyst: Mechanistic View. <i>Environmental Science & Technology</i> , 2020, 54, 497-506.	4.6	76
1588	Hydrogen Production from Ammonia Borane over PtNi Alloy Nanoparticles Immobilized on Graphite Carbon Nitride. <i>Catalysts</i> , 2019, 9, 1009.	1.6	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. <i>Nanoscale Advances</i> , 2019, 1, 4128-4136.	2.2	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. <i>RSC Advances</i> , 2019, 9, 34804-34813.	1.7	21
1591	One-step, high-yield synthesis of g-C ₃ N ₄ nanosheets for enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2019, 9, 39304-39314.	1.7	20
1592	Salt-template-assisted construction of honeycomb-like structured g-C ₃ N ₄ with tunable band structure for enhanced photocatalytic H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 64-71.	10.8	143
1593	Facile oxalic acid-assisted construction of laminated porous N-deficient graphitic carbon nitride: Highly efficient visible-light-driven hydrogen evolution photocatalyst. <i>Journal of Energy Chemistry</i> , 2019, 33, 1-8.	7.1	25
1594	Megamerger in photocatalytic field: 2D g-C ₃ N ₄ nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 153-173.	10.8	310
1595	Insights into rapid photodynamic inactivation mechanism of <i>Staphylococcus aureus</i> via rational design of multifunctional nitrogen-rich carbon-coated bismuth/cobalt nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 167-177.	10.8	67
1596	Hybrids of Fullerenes and 2D Nanomaterials. <i>Advanced Science</i> , 2019, 6, 1800941.	5.6	98
1597	Noble metal-free NiS ₂ with rich active sites loaded g-C ₃ N ₄ for highly efficient photocatalytic H ₂ evolution under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 343-349.	5.0	57

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1599	The effect of fast and slow surface states on photoelectrochemical performance of hematite photoanodes fabricated by electrodeposition and hydrothermal methods. <i>Journal of Materials Science</i> , 2019, 54, 659-670.	1.7	16
1600	Looking at the overlooked hole oxidation: Photocatalytic transformation of organic contaminants on graphitic carbon nitride under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 262-269.	10.8	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. <i>Applied Surface Science</i> , 2019, 463, 1148-1153.	3.1	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. <i>Nanoscale Advances</i> , 2019, 1, 322-333.	2.2	64
1603	Influence of hydrogen and halogen adsorption on the photocatalytic water splitting activity of C ₂ N monolayer: A first-principles study. <i>Carbon</i> , 2019, 141, 50-58.	5.4	54
1604	Uniform CdS-decorated carbon microsheets with enhanced photocatalytic hydrogen evolution under visible-light irradiation. <i>Journal of Alloys and Compounds</i> , 2019, 770, 886-895.	2.8	39
1605	In-situ construction of coral-like porous P-doped g-C ₃ N ₄ tubes with hybrid 1D/2D architecture and high efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 159-166.	10.8	231
1606	Targeted modulation of g-C ₃ N ₄ photocatalytic performance for pharmaceutical pollutants in water using ZnFe-LDH derived mixed metal oxides: Structure-activity and mechanism. <i>Science of the Total Environment</i> , 2019, 650, 1112-1121.	3.9	70
1607	In-situ synthesis of Z-scheme Ag ₂ CO ₃ /Ag/AgNCO heterojunction photocatalyst with enhanced stability and photocatalytic activity. <i>Applied Surface Science</i> , 2019, 464, 108-114.	3.1	52
1608	Thermal chemical vapor deposition and luminescence property of graphitic carbon nitride film for carbon-based semiconductor systems. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 010907.	0.8	19
1609	CdS nanospheres hybridized with graphitic C ₃ N ₄ for effective photocatalytic hydrogen generation under visible light irradiation. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4671.	1.7	13
1610	Fabrication of surface alkalized g-C ₃ N ₄ and TiO ₂ composite for the synergistic adsorption-photocatalytic degradation of methylene blue. <i>Applied Surface Science</i> , 2019, 473, 855-863.	3.1	74
1611	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , 2019, 48, 488-516.	18.7	564
1612	Exceptional photocatalytic activity for g-C ₃ N ₄ activated by H ₂ O ₂ and integrated with Bi ₂ S ₃ and Fe ₃ O ₄ nanoparticles for removal of organic and inorganic pollutants. <i>Advanced Powder Technology</i> , 2019, 30, 524-537.	2.0	52
1613	2D/2D Graphitic Carbon Nitride/Antimonene Heterostructure: Structural Characterization and Application in Photocatalysis. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800138.	2.7	30
1614	Hierarchical Zn-doped CoO Nanoflowers for Electrocatalytic Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2019, 11, 1480-1486.	1.8	24
1615	Fabrication of high photoreactive carbon nitride nanosheets by polymerization of amidinourea for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 197-206.	10.8	62

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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.	1.8	34
1619	g-C ₃ N ₄ -based films: A rising star for photoelectrochemical water splitting. Sustainable Materials and Technologies, 2019, 19, e00089.	1.7	44
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1622	Boron nitride quantum dots decorated ultrathin porous g-C ₃ N ₄ : Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. Applied Catalysis B: Environmental, 2019, 245, 87-99.	10.8	543
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1624	Sodium alginate-templated synthesis of g-C ₃ N ₄ /carbon spheres/Cu ternary nanohybrids for fire safety application. Journal of Colloid and Interface Science, 2019, 539, 1-10.	5.0	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.	5.8	301
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1627	Understanding Charge Transport in Carbon Nitride for Enhanced Photocatalytic Solar Fuel Production. Accounts of Chemical Research, 2019, 52, 248-257.	7.6	93
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1629	Graphitic Carbon Nitride with Carbon Vacancies for Photocatalytic Degradation of Bisphenol A. ACS Applied Nano Materials, 2019, 2, 517-524.	2.4	92
1630	Chemoselective Hydrodeoxygenation of Carboxylic Acids to Hydrocarbons over Nitrogen-Doped Carbon-Alumina Hybrid Supported Iron Catalysts. ACS Catalysis, 2019, 9, 1564-1577.	5.5	66
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1632	Integration of 3D macroscopic graphene aerogel with 0D-2D AgVO ₃ -g-C ₃ N ₄ heterojunction for highly efficient photocatalytic oxidation of nitric oxide. Applied Catalysis B: Environmental, 2019, 243, 576-584.	10.8	60
1633	Photocatalytic degradation of phenol wastewater over Z-scheme g-C ₃ N ₄ /CNT/BiVO ₄ heterostructure photocatalyst under solar light irradiation. Journal of Molecular Liquids, 2019, 277, 977-988.	2.3	116

#	ARTICLE	IF	CITATIONS
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1635	Enhanced CO ₂ photoreduction via tuning halides in perovskites. <i>Journal of Catalysis</i> , 2019, 369, 201-208.	3.1	117
1636	Coordination-driven synthesis of perfected ĩ-conjugated graphitic carbon nitride with efficient charge transfer for oxygen activation and gas purification. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 237-247.	5.0	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. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1134-1137.	7.2	208
1639	One-step synthesis of Fe-doped surface-alkalinized g-C ₃ N ₄ and their improved visible-light photocatalytic performance. <i>Applied Surface Science</i> , 2019, 469, 739-746.	3.1	103
1640	Ultrafine 1D graphene interlayer in g-C ₃ N ₄ /graphene/recycled carbon fiber heterostructure for enhanced photocatalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2019, 359, 1352-1359.	6.6	46
1641	Highly biocompatible phenylboronic acid-functionalized graphitic carbon nitride quantum dots for the selective glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 36-44.	4.0	65
1642	Bimetallic Manganese Cobalt Phosphide Nanodotsâ€“Modified Graphitic Carbon Nitride for Highâ€“Performance Hydrogen Production. <i>Energy Technology</i> , 2019, 7, 1800927.	1.8	18
1643	Photoâ€“Induced Hydrogel Formation Based on gâ€“C₃N₄ Nanosheets with Selfâ€“Crossâ€“Linked 3D Framework for UV Protection Application. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800500.	1.7	26
1644	Photocatalysis and Photoelectrocatalysis Methods of Nitrogen Reduction for Sustainable Ammonia Synthesis. <i>Small Methods</i> , 2019, 3, 1800352.	4.6	144
1645	Cu ₂ O modified g-C ₃ N ₄ as an effective catalyst for the synthesis of propargylamines: experimental, quantum mechanical mechanistic and kinetic study. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 126, 265-282.	0.8	11
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1647	Enhanced photocatalytic Cr(VI) reduction and diclofenac sodium degradation under simulated sunlight irradiation over MIL-100(Fe)/g-C ₃ N ₄ heterojunctions. <i>Chinese Journal of Catalysis</i> , 2019, 40, 70-79.	6.9	136
1648	Graphitic carbon nitrideâ€“chitosan compositesâ€“anchored palladium nanoparticles as highâ€“performance catalyst for ammonia borane hydrolysis. <i>International Journal of Energy Research</i> , 2019, 43, 535-543.	2.2	36
1649	Cobalt oxide loaded graphitic carbon nitride as adsorptive photocatalyst for tetracycline removal from aqueous solution. <i>Chemosphere</i> , 2019, 218, 169-178.	4.2	33
1650	Tailored indium sulfide-based materials for solar-energy conversion and utilization. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 38, 1-26.	5.6	127
1651	Rational Design and Construction of Cocatalysts for Semiconductorâ€“Based Photoâ€“Electrochemical Oxygen Evolution: A Comprehensive Review. <i>Advanced Science</i> , 2019, 6, 1801505.	5.6	120

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1653	Graphitic carbon nitride co-modified by zinc phthalocyanine and graphene quantum dots for the efficient photocatalytic degradation of refractory contaminants. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 96-106.	10.8	109
1654	Construction of CdS quantum dots modified g-C ₃ N ₄ /ZnO heterostructured photoanode for efficient photoelectrochemical water splitting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 371, 109-117.	2.0	36
1655	Multi-heterojunction of SnO ₂ /Bi ₂ O ₃ /BiOI nanofibers: Facile fabrication with enhanced visible-light photocatalytic performance. <i>Materials Research Bulletin</i> , 2019, 111, 202-211.	2.7	16
1656	Robust three-dimensional g-C ₃ N ₄ @cellulose aerogel enhanced by cross-linked polyester fibers for simultaneous removal of hexavalent chromium and antibiotics. <i>Chemical Engineering Journal</i> , 2019, 359, 119-129.	6.6	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 285-295.	3.2	49
1658	Facile synthesis of rod-like g-C ₃ N ₄ by decorating Mo ₂ C co-catalyst for enhanced visible-light photocatalytic activity. <i>Applied Surface Science</i> , 2019, 470, 565-572.	3.1	59
1659	Mn-doped g-C ₃ N ₄ composite to activate peroxydisulfate for acetaminophen degradation: The role of superoxide anion and singlet oxygen. <i>Chemical Engineering Journal</i> , 2019, 359, 723-732.	6.6	320
1660	Type II heterojunction in hierarchically porous zinc oxide/graphitic carbon nitride microspheres promoting photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 99-107.	5.0	49
1661	Semiconductor Photocatalysis for Water Purification. , 2019, , 581-651.		68
1662	Impact of doped metals on urea-derived g-C ₃ N ₄ for photocatalytic degradation of antibiotics: Structure, photoactivity and degradation mechanisms. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 475-485.	10.8	212
1663	A critical review in strategies to improve photocatalytic water splitting towards hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 540-577.	3.8	573
1664	Enhanced visible light photoreduction of aqueous Cr(VI) by Ag/Bi ₄ O ₇ /g-C ₃ N ₄ nanosheets ternary metal/non-metal Z-scheme heterojunction. <i>Journal of Hazardous Materials</i> , 2019, 365, 674-683.	6.5	76
1665	Phosphorus-doped Isotype g-C ₃ N ₄ /g-C ₃ N ₄ : An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. <i>ChemCatChem</i> , 2019, 11, 729-736.	1.8	42
1666	Localized Surface Plasmon Resonance Enhanced Photocatalytic Hydrogen Evolution via Pt@Au NRs/C ₃ N ₄ Nanotubes under Visible-Light Irradiation. <i>Advanced Functional Materials</i> , 2019, 29, 1806774.	7.8	129
1667	Laser-induced synthesis and photocatalytic properties of hybrid organic-inorganic composite layers. <i>Journal of Materials Science</i> , 2019, 54, 3927-3941.	1.7	18
1668	Rational design of graphitic carbon nitride copolymers by molecular doping for visible-light-driven degradation of aqueous sulfamethazine and hydrogen evolution. <i>Chemical Engineering Journal</i> , 2019, 359, 186-196.	6.6	195
1669	TiO ₂ @g-C ₃ N ₄ heterojunction with directional charge migration behavior for photodegradation of tetracycline antibiotics. <i>Materials Letters</i> , 2019, 236, 622-624.	1.3	15

#	ARTICLE	IF	CITATIONS
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1671	Highly enhanced visible-light photocatalytic hydrogen evolution on g-C ₃ N ₄ decorated with vopc through π-π interaction. Chinese Journal of Catalysis, 2019, 40, 168-176.	6.9	31
1672	Strengthened spatial charge separation over Z-scheme heterojunction photocatalyst for efficient photocatalytic H ₂ evolution. Applied Surface Science, 2019, 475, 453-461.	3.1	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.	3.1	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.	6.6	685
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1676	Organic/inorganic nitride heterostructure for efficient photocatalytic oxygen evolution. Applied Surface Science, 2019, 475, 256-263.	3.1	15
1677	Self-hybridized coraloid graphitic carbon nitride deriving from deep eutectic solvent as effective visible light photocatalysts. Carbon, 2019, 144, 649-658.	5.4	29
1678	An Effective Approach to Improve the Photocatalytic Activity of Graphitic Carbon Nitride via Hydroxyl Surface Modification. Catalysts, 2019, 9, 17.	1.6	15
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1683	Synthesis and Applications of Nanomaterials With High Photocatalytic Activity on Air Purification. , 2019, , 299-325.		4
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1686	Cytotoxicity of Shear Exfoliated Pnictogen (As, Sb, Bi) Nanosheets. Chemistry - A European Journal, 2019, 25, 2242-2249.	1.7	34
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1688	Fabrication of pyrimidine/g-C ₃ N ₄ nanocomposites for efficient photocatalytic activity under visible-light illumination. <i>Dyes and Pigments</i> , 2019, 163, 634-640.	2.0	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. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 42-48.	4.0	19
1690	Facile fabrication of phosphorus-doped g-C ₃ N ₄ exhibiting enhanced visible light photocatalytic degradation performance toward textile dye. <i>Solid State Sciences</i> , 2019, 89, 150-155.	1.5	24
1691	Gaseous bubble-assisted in-situ construction of worm-like porous g-C ₃ N ₄ with superior visible light photocatalytic performance. <i>Applied Catalysis A: General</i> , 2019, 573, 13-21.	2.2	24
1692	Facile Two-Step Synthesis of Porous Carbon Nitride with Enhanced Photocatalytic Activity Using a Soft Template. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3866-3874.	3.2	39
1693	g-C ₃ N ₄ photoanode for photoelectrocatalytic synergistic pollutant degradation and hydrogen evolution. <i>Applied Surface Science</i> , 2019, 467-468, 658-665.	3.1	82
1694	Rice-husk-derived mesoporous 0D/2D C ₃ N ₄ isotype heterojunction with improved quantum effect for photodegradation of tetracycline antibiotics. <i>Ceramics International</i> , 2019, 45, 2234-2240.	2.3	18
1695	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2019, 131, 6225-6236.	1.6	378
1696	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6164-6175.	7.2	481
1697	Enhanced photocatalytic hydrogen evolution by partially replaced corner-site C atom with P in g-C ₃ N ₄ . <i>Applied Catalysis B: Environmental</i> , 2019, 244, 486-493.	10.8	103
1698	Activation of graphitic carbon nitride by surface discharge plasma treatment for enhanced photocatalysis. <i>Vacuum</i> , 2019, 159, 235-238.	1.6	9
1699	Micro/nano-structured ultrathin g-C ₃ N ₄ /Ag nanoparticle hybrids as efficient electrochemical biosensors for l-tyrosine. <i>Applied Surface Science</i> , 2019, 467-468, 608-618.	3.1	47
1700	Isotype 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. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 025501.	1.3	46
1701	Porous graphitic carbon nitride with lamellar structure: Facile synthesis via in-site supramolecular self-assembly in alkaline solutions and superior photocatalytic activity. <i>Advanced Powder Technology</i> , 2019, 30, 120-125.	2.0	8
1702	Facile fabrication of g-C ₃ N ₄ QDs/BiVO ₄ Z-scheme heterojunction towards enhancing photodegradation activity under visible light. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 669-681.	2.7	104
1703	Controlled assemble of hollow heterostructured g-C ₃ N ₄ @CeO ₂ with rich oxygen vacancies for enhanced photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 566-575.	10.8	287
1704	Facile molten salt synthesis of atomically thin boron nitride nanosheets and their co-catalytic effect on the performance of carbon nitride photocatalyst. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 664-672.	5.0	38
1705	Ultrathin 2D/2D WO ₃ /g-C ₃ N ₄ step-scheme H ₂ -production photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 556-565.	10.8	1,895

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1706	Photocatalytic decomposition of N ₂ O over g-C ₃ N ₄ /BiVO ₄ composite. <i>Applied Surface Science</i> , 2019, 469, 181-191.	3.1	24
1707	In situ decoration of Au nanoparticles on carbon nitride using a single-source precursor and its application for the detection of tetracycline. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 646-654.	5.0	39
1708	Highly efficient degradation of 2,4-dichlorophenol over CeO ₂ /g-C ₃ N ₄ composites under visible-light irradiation: Detailed reaction pathway and mechanism. <i>Journal of Hazardous Materials</i> , 2019, 364, 635-644.	6.5	152
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1841	“Chinese Students Syndrome”™ in Australia: colonial modernity and the possibilities of alternative framing. <i>Higher Education</i> , 2020, 79, 605-618.	2.8	7
1842	Determination of a thiol-based ionic liquid using ultrathin graphitic carbon nitride nanosheets as a nanofluoroprobe. <i>Talanta</i> , 2020, 207, 120291.	2.9	4
1843	Defect as the essential factor in engineering carbon-nitride-based visible-light-driven Z-scheme photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118145.	10.8	62
1844	Naphthalimide-porphyrin hybridized graphitic carbon nitride for enhanced photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2020, 499, 143755.	3.1	32
1845	Enhanced mineralization of oxalate by highly active and Stable Ce(III)-Doped g-C ₃ N ₄ catalyzed ozonation. <i>Chemosphere</i> , 2020, 239, 124612.	4.2	50
1846	Cobalt phosphate hydroxide loaded g-C ₃ N ₄ photocatalysts and its hydrogen production activity. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7562-7573.	3.8	38
1847	Enhanced adsorption and photocatalytic activities of ultrathin graphitic carbon nitride nanosheets: Kinetics and mechanism. <i>Chemical Engineering Journal</i> , 2020, 381, 122760.	6.6	87
1848	Reliable and selective lead-ion sensor of sulfur-doped graphitic carbon nitride nanoflakes. <i>Applied Surface Science</i> , 2020, 506, 144672.	3.1	37
1849	Co-modification of polydopamine and KH560 on g-C ₃ N ₄ nanosheets for enhancing the corrosion protection property of waterborne epoxy coating. <i>Reactive and Functional Polymers</i> , 2020, 146, 104405.	2.0	62

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1851	Ultrathin g-C ₃ N ₄ nanosheet with hierarchical pores and desirable energy band for highly efficient H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118396.	10.8	183
1852	Visible-light photodegradation of sulfamethoxazole (SMX) over Ag-P-codoped g-C ₃ N ₄ (Ag-P@UCN) photocatalyst in water. <i>Chemical Engineering Journal</i> , 2020, 384, 123383.	6.6	94
1853	Preparation characterization and non-isothermal decomposition kinetics of different carbon nitride sheets. <i>Egyptian Journal of Petroleum</i> , 2020, 29, 21-29.	1.2	27
1854	Constructing mesoporous g-C ₃ N ₄ /ZnO nanosheets catalyst for enhanced visible-light driven photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112169.	2.0	52
1855	Introducing graphitic carbon nitride nanosheets as supersandwich-type assembly on porous electrode for ultrasensitive electrochemiluminescence immunosensing. <i>Analytica Chimica Acta</i> , 2020, 1097, 62-70.	2.6	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. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118357.	10.8	211
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1859	The modulation of g-C ₃ N ₄ energy band structure by excitons capture and dissociation. <i>Materials Research Bulletin</i> , 2020, 122, 110685.	2.7	28
1860	Visible light activated excellent NO ₂ sensing based on 2D/2D ZnO/g-C ₃ N ₄ heterojunction composites. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127287.	4.0	89
1861	In Situ Fabrication of Robust Cocatalyst-Free CdS/g-C ₃ N ₄ /g-C ₃ N ₄ 2D/2D Step-Scheme Heterojunctions for Highly Active H ₂ Evolution. <i>Solar Rrl</i> , 2020, 4, 1900423.	3.1	176
1862	Enhanced photocatalytic hydrogen evolution by carbon-doped carbon nitride synthesized via the assistance of cellulose. <i>Applied Surface Science</i> , 2020, 504, 144454.	3.1	17
1863	Mesoporous SiO ₂ -derived g-C ₃ N ₄ @CdS core-shell heteronanostructure for efficient and stable photocatalytic H ₂ production. <i>Ceramics International</i> , 2020, 46, 2384-2391.	2.3	16
1864	H ₂ O ₂ -free photo-Fenton degradation of organic pollutants on thermally exfoliated g-C ₃ N ₄ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124190.	2.3	37
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1867	Chemical Vapor Deposition of Boron-Incorporated Graphitic Carbon Nitride Film for Carbon-Based Wide Bandgap Semiconductor Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900375.	0.7	11

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1869	Produktion von Wasserstoffperoxid durch photokatalytische Prozesse. <i>Angewandte Chemie</i> , 2020, 132, 17508-17529.	1.6	29
1870	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118251.	10.8	89
1871	Insights on the impact of doping levels in oxygen-doped g-C ₃ N ₄ and its effects on photocatalytic activity. <i>Applied Surface Science</i> , 2020, 504, 144427.	3.1	69
1872	2D Materials in Light: Excited-State Dynamics and Applications. <i>Chemical Record</i> , 2020, 20, 413-428.	2.9	10
1873	Robust and recyclable macroscopic g-C ₃ N ₄ /cellulose hybrid photocatalysts with enhanced visible light photocatalytic activity. <i>Applied Surface Science</i> , 2020, 504, 144179.	3.1	29
1874	Carbon nitride nanotube for ion transport based photo-rechargeable electric energy storage. <i>Nano Energy</i> , 2020, 67, 104230.	8.2	48
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1876	An Electrochemiluminescence Chiral Sensor for Propranolol Enantiomers Based on Functionalized Graphene-like Carbon Nitride Nanosheets. <i>Electroanalysis</i> , 2020, 32, 185-190.	1.5	10
1877	Synergistic effect of quantum confinement and site-selective doping in polymeric carbon nitride towards overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118211.	10.8	64
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1882	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C ₃ N ₄) nanolayers. <i>New Journal of Chemistry</i> , 2020, 44, 2644-2651.	1.4	29
1883	Facile preparation of nanosized MoP as cocatalyst coupled with g-C ₃ N ₄ by surface bonding state for enhanced photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118620.	10.8	153
1884	Rapid polymerization synthesizing high-crystalline g-C ₃ N ₄ towards boosting solar photocatalytic H ₂ generation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6425-6436.	3.8	104
1885	Immobilization of AgCl@TiO ₂ on the woven wire mesh: Sunlight-responsive environmental photocatalyst with high durability. <i>Solar Energy</i> , 2020, 196, 653-662.	2.9	36

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1888	Stable Ag ₂ O/g-C ₃ N ₄ p-n heterojunction photocatalysts for efficient inactivation of harmful algae under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118610.	10.8	128
1889	Surface amorphous carbon doping of carbon nitride for efficient acceleration of electron transfer to boost photocatalytic activities. <i>Applied Surface Science</i> , 2020, 507, 145145.	3.1	19
1890	Band structure engineering of polymeric carbon nitride with oxygen/carbon codoping for efficient charge separation and photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 333-343.	5.0	26
1891	Synthesis, characterization and activity of doped graphitic carbon nitride materials towards photocatalytic oxidation of volatile organic pollutants emitted from 3D printer. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 391, 112355.	2.0	22
1892	Photocatalytic Dinitrogen Reduction with Water on Boron-Doped Carbon Nitride Loaded with Nickel Phosphide Particles. <i>Langmuir</i> , 2020, 36, 734-741.	1.6	27
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1896	Construction of DyVO ₄ /nitrogen deficient g-C ₃ N ₄ composite for enhanced visible-light photocatalytic activity for tetracycline degradation. <i>Materials Research Bulletin</i> , 2020, 124, 110766.	2.7	50
1897	Hierarchical Z-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. <i>Environmental Science: Nano</i> , 2020, 7, 676-687.	2.2	79
1898	Boosting visible-light driven solar-fuel production over g-C ₃ N ₄ /tetra(4-carboxyphenyl)porphyrin iron(III) chloride hybrid photocatalyst via incorporation with carbon dots. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118595.	10.8	31
1899	Visible-light-induced nitrogen photofixation ability of g-C ₃ N ₄ nanosheets decorated with MgO nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 185-195.	2.9	105
1900	Phosphorus-doped porous carbon nitride for efficient sole production of hydrogen peroxide via photocatalytic water splitting with a two-channel pathway. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3701-3707.	5.2	89
1901	Revolution of Perovskite. <i>Materials Horizons</i> , 2020, , .	0.3	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. <i>Catalysis Science and Technology</i> , 2020, 10, 549-559.	2.1	39
1903	Heterogeneous visible-light-induced Meerwein hydration reaction of alkenes in water using mpg-C ₃ N ₄ as a recyclable photocatalyst. <i>Green Chemistry</i> , 2020, 22, 411-416.	4.6	46

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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. <i>Sustainable Energy and Fuels</i> , 2020, 4, 750-759.	2.5	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. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2995-3004.	5.2	68
1907	Graphitic carbon nitride doped SnO ₂ enabling efficient perovskite solar cells with PCEs exceeding 22%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2644-2653.	5.2	98
1908	Facile synthesis of mesoporous graphitic carbon nitride/SnO ₂ nanocomposite photocatalysts for the enhanced photodegradation of Rhodamine B. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 129, 535-550.	0.8	8
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1910	An unconventional DCO _x favored Co/N-C catalyst for efficient conversion of fatty acids and esters to liquid alkanes. <i>Applied Catalysis A: General</i> , 2020, 591, 117385.	2.2	8
1911	Efficient photocatalytic hydrogen evolution by engineering amino groups into ultrathin 2D graphitic carbon nitride. <i>Applied Surface Science</i> , 2020, 507, 145085.	3.1	17
1912	P, K co-doped porous g-C ₃ N ₄ with enhanced photocatalytic activity synthesized in vapor and self-producing NH ₃ atmosphere. <i>Applied Surface Science</i> , 2020, 507, 145086.	3.1	25
1913	Tuning layered Fe-doped g-C ₃ N ₄ structure through pyrolysis for enhanced Fenton and photo-Fenton activities. <i>Carbon</i> , 2020, 159, 461-470.	5.4	111
1914	Enhanced photocatalytic hydrogen evolution over TiO ₂ /g-C ₃ N ₄ 2D heterojunction coupled with plasmon Ag nanoparticles. <i>Ceramics International</i> , 2020, 46, 5725-5732.	2.3	34
1915	Enhanced nâ†Œ* electron transition of porous P-doped g-C ₃ N ₄ nanosheets for improved photocatalytic H ₂ evolution performance. <i>Ceramics International</i> , 2020, 46, 8444-8451.	2.3	61
1916	Novel ternary p-ZnIn ₂ S ₄ /rGO/n-g-C ₃ N ₄ Z-scheme nanocatalyst with enhanced antibiotic degradation in a dark self-biased fuel cell. <i>Ceramics International</i> , 2020, 46, 9567-9574.	2.3	24
1917	Band-gap engineering of layered covalent organic frameworks via controllable exfoliation for enhanced visible-light-driven hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2689-2698.	3.8	32
1918	SrSnO ₃ /g-C ₃ N ₄ and sunlight: Photocatalytic activity and toxicity of degradation byproducts. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103633.	3.3	18
1919	Graphitic carbon nitride homojunction films for photocathodic protection of 316 stainless steel and Q235 carbon steel. <i>Journal of Electroanalytical Chemistry</i> , 2020, 857, 113703.	1.9	24
1920	Distorted polymeric carbon nitride via carriers transfer bridges with superior photocatalytic activity for organic pollutants oxidation and hydrogen production under visible light. <i>Journal of Hazardous Materials</i> , 2020, 386, 121947.	6.5	95
1921	Peroxydisulfate-assisted photocatalytic degradation of sulfadiazine using self-assembled multi-layered CoAl-LDH/g-C ₃ N ₄ heterostructures: Performance, mechanism and eco-toxicity evaluation. <i>Journal of Water Process Engineering</i> , 2020, 33, 101084.	2.6	77

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1923	DFT study of interaction between HCHO molecule and tri-s-triazine g-C ₃ N ₄ surface. <i>Molecular Catalysis</i> , 2020, 483, 110718.	1.0	5
1924	Synthesis of Pt-Rare Earth Metal Nanoalloys. <i>Journal of the American Chemical Society</i> , 2020, 142, 953-961.	6.6	74
1925	Surface Engineering of g-C ₃ N ₄ by Stacked BiOBr Sheets Rich in Oxygen Vacancies for Boosting Photocatalytic Performance. <i>Angewandte Chemie</i> , 2020, 132, 4549-4554.	1.6	27
1926	Surface Engineering of g-C ₃ N ₄ by Stacked BiOBr Sheets Rich in Oxygen Vacancies for Boosting Photocatalytic Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4519-4524.	7.2	271
1927	Apparent Potential Difference Boosting Directional Electron Transfer for Full Solar Spectrum-Irradiated Catalytic H ₂ Evolution. <i>Advanced Functional Materials</i> , 2020, 30, 1908797.	7.8	64
1928	Nitrogen photofixation ability of g-C ₃ N ₄ nanosheets/Bi ₂ MoO ₆ heterojunction photocatalyst under visible-light illumination. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 81-91.	5.0	166
1929	Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. <i>Chemical Engineering Journal</i> , 2020, 391, 123496.	6.6	308
1930	Efficiency and durability of g-C ₃ N ₄ -based coatings applied on mortar under peeling and washing trials. <i>Construction and Building Materials</i> , 2020, 234, 117438.	3.2	5
1931	Platinum nanoparticles decorated and titanium incorporated with NH ₂ -UiO-66 for photocatalytic hydrogen production. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 129, 505-518.	0.8	7
1932	Enhanced simulated sunlight photocatalytic reduction of an aqueous hexavalent chromium over hydroxyl-modified graphitic carbon nitride. <i>Applied Surface Science</i> , 2020, 506, 144181.	3.1	31
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1935	Hybrid 0D/2D Ni ₂ P quantum dot loaded TiO ₂ (B) nanosheet photothermal catalysts for enhanced hydrogen evolution. <i>Applied Surface Science</i> , 2020, 505, 144099.	3.1	47
1936	Graphitic Carbon Nitride-Based Low-Dimensional Heterostructures for Photocatalytic Applications. <i>Solar Rrl</i> , 2020, 4, 1900435.	3.1	65
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1938	Photocatalysis: an overview of recent developments and technological advancements. <i>Science China Chemistry</i> , 2020, 63, 149-181.	4.2	107
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1941	Recent developments in carbon nitride based films for photoelectrochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 485-503.	2.5	68
1942	A hierarchical carbon nitride tube with oxygen doping and carbon defects promotes solar-to-hydrogen conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3160-3167.	5.2	59
1943	Direct Z-scheme ZnIn ₂ S ₄ /LaNiO ₃ nanohybrid with enhanced photocatalytic performance for H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4113-4121.	3.8	75
1944	An instant, biocompatible and biodegradable high-performance graphitic carbon nitride. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 336-346.	5.0	20
1945	Heterogeneous Carbon Nitrides Photocatalysis Multicomponent Hydrosulfonylation of Alkynes To Access β -Keto Sulfones with the Insertion of Sulfur Dioxide in Aerobic Aqueous Medium. <i>Organic Letters</i> , 2020, 22, 670-674.	2.4	63
1946	One step synthesis of efficient photocatalysts by TCAP doped g-C ₃ N ₄ for enhanced visible-light photocatalytic activity. <i>New Journal of Chemistry</i> , 2020, 44, 1127-1137.	1.4	9
1947	Nitrogen vacancy mediated exciton dissociation in carbon nitride nanosheets: Enhanced hydroxyl radicals generation for efficient photocatalytic degradation of organic pollutants. <i>Journal of Hazardous Materials</i> , 2020, 387, 122023.	6.5	60
1948	Magnetically responsive SnFe ₂ O ₄ /g-C ₃ N ₄ hybrid photocatalysts with remarkable visible-light-induced performance for degradation of environmentally hazardous substances and sustainable hydrogen production. <i>Applied Surface Science</i> , 2020, 506, 144939.	3.1	32
1949	BaWO ₄ /g-C ₃ N ₄ heterostructure with excellent bifunctional photocatalytic performance. <i>Chemical Engineering Journal</i> , 2020, 385, 123833.	6.6	60
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1951	Ferrite Materials for Photoassisted Environmental and Solar Fuels Applications. <i>Topics in Current Chemistry</i> , 2020, 378, 6.	3.0	39
1952	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. <i>Advanced Materials</i> , 2020, 32, e1904717.	11.1	213
1953	Noble Metal Free, Visible Light Driven Photocatalysis Using TiO ₂ Nanotube Arrays Sensitized by P-doped C ₃ N ₄ Quantum Dots. <i>Advanced Optical Materials</i> , 2020, 8, 1901275.	3.6	48
1954	Fabrication and Photodegradation Application of Isopropanol-Functionalized Poly (Triazine Imide). <i>Journal of Electronic Materials</i> , 2020, 49, 1518-1526.	1.0	3
1955	Ultrafast plasma immersion strategy for rational modulation of oxygen-containing and amino groups in graphitic carbon nitride. <i>Carbon</i> , 2020, 159, 51-64.	5.4	43
1956	Structurally modified graphitic carbon nitride with highly photocatalytic activity in the presence of visible light. <i>Catalysis Today</i> , 2020, 352, 47-53.	2.2	28
1957	Sunlight active g-C ₃ N ₄ -based Mn ⁺ (M Cu, Ni, Zn, Mn) promoted catalysts: Sharing of nitrogen atoms as a door for optimizing photo-activity. <i>Molecular Catalysis</i> , 2020, 484, 110725.	1.0	2

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1959	Graphitic Carbon Nitride Decorated with Cu ₂ O Nanoparticles for the Visible Light Activated Synthesis of Ynones, Aminoindolizines, and Pyrrolo [1, 2-a] Quinoline. <i>ACS Applied Nano Materials</i> , 2020, 3, 1191-1202.	2.4	19
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1961	In situ hydrothermal fabrication of visible light-driven g-C ₃ N ₄ /SrTiO ₃ composite for photocatalytic degradation of TC. <i>Environmental Science and Pollution Research</i> , 2020, 27, 5788-5796.	2.7	20
1962	Ternary g-C ₃ N ₄ /ZnNCN@ZIF-8 Hybrid Photocatalysts with Robust Interfacial Interactions and Enhanced CO ₂ Reduction Performance. <i>Solar Rrl</i> , 2020, 4, 1900440.	3.1	49
1963	Facile preparation and high photocatalytic activity of crystalline graphitic carbon nitride in hydrogen evolution from electron donor solutions under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112295.	2.0	20
1964	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 884-892.	3.2	30
1965	Energy Band Engineering of Polymeric Carbon Nitride with Indium Doping for High Enhancement in Charge Separation and Photocatalytic Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 377-386.	2.5	26
1966	2D/2D WO ₃ ·H ₂ O/g-C ₃ N ₄ heterostructured assemblies for enhanced photocatalytic water decontamination via strong interfacial contact. <i>Journal of Materials Science</i> , 2020, 55, 4238-4250.	1.7	17
1967	Recent developments and challenges in practical application of visible-light-driven TiO ₂ -based heterojunctions for PPCP degradation: A critical review. <i>Water Research</i> , 2020, 170, 115356.	5.3	185
1968	Colorimetric Assay Using Mesoporous Fe-Doped Graphitic Carbon Nitride as a Peroxidase Mimetic for the Determination of Hydrogen Peroxide and Glucose. <i>ACS Applied Bio Materials</i> , 2020, 3, 59-67.	2.3	25
1969	Two-dimensional nanomaterials beyond graphene for antibacterial applications: current progress and future perspectives. <i>Theranostics</i> , 2020, 10, 757-781.	4.6	152
1970	Self-cleaning and antimicrobial photo-induced properties under indoor lighting irradiation of chitosan films containing Melon/TiO ₂ composites. <i>Applied Surface Science</i> , 2020, 508, 144895.	3.1	13
1971	Ag ₃ PO ₄ /g-C ₃ N ₄ nanocomposites for photocatalytic degradating gas phase formaldehyde at continuous flow under 420nm LED irradiation. <i>Chemosphere</i> , 2020, 244, 125462.	4.2	26
1972	Photodegradation performances and transformation mechanism of sulfamethoxazole with CeO ₂ /CN heterojunction as photocatalyst. <i>Separation and Purification Technology</i> , 2020, 237, 116329.	3.9	45
1973	Metal-organic framework-based materials for hybrid supercapacitor application. <i>Coordination Chemistry Reviews</i> , 2020, 404, 213093.	9.5	318
1974	One-step microwave synthesis of covalently bonded O C ₃ N ₄ /C ₆₀ with enhanced photocatalytic properties. <i>Materials Research Bulletin</i> , 2020, 122, 110668.	2.7	9
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1977	Superior uniform carbon nanofibers@g-C ₃ N ₄ core-shell nanostructures embedded by Au nanoparticles for high-efficiency photocatalyst. <i>Journal of Hazardous Materials</i> , 2020, 388, 121759.	6.5	24
1978	Precursorâ€‘Engineering Coupled Microwave Moltenâ€‘Salt Strategy Enhances Photocatalytic Hydrogen Evolution Performance of gâ€‘C ₃ /sub>N₄ Nanostructures. <i>ChemSusChem</i> , 2020, 13, 827-837.	3.6	54
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1980	Mechanistic insight of the formation of visible-light responsive nanosheet graphitic carbon nitride embedded polyacrylonitrile nanofibres for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2020, 33, 101015.	2.6	23
1981	Recent Advances in Photocatalysis over Metalâ€‘Organic Frameworksâ€‘Based Materials. <i>Solar Rrl</i> , 2020, 4, 1900438.	3.1	22
1982	In situ no-slot joint integration of half-metallic C(CN) ₃ cocatalyst into g-C ₃ N ₄ scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO ₂ into CO. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118470.	10.8	41
1983	Enhanced photocatalytic performance of the MoS ₂ /g-C ₃ N ₄ heterojunction composite prepared by vacuum freeze drying method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112260.	2.0	23
1984	A dual-emission fluorescence probe for simultaneous quantification of CNâ€‘ and Cr ₂ O ₇ â€‘ ions based on modified g-C ₃ N ₄ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112261.	2.0	15
1985	Synergetic effect of g-C ₃ N ₄ /ZnO binary nanocomposites heterojunction on improving charge carrier separation through 2D/1D nanostructures for effective photocatalytic activity under the sunlight irradiation. <i>Separation and Purification Technology</i> , 2020, 244, 116356.	3.9	45
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1991	A latest overview on photocatalytic application of g-C ₃ N ₄ based nanostructured materials for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 337-379.	3.8	175
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1993	Synthesis of carbon nitride nanosheets with tunable size by hydrothermal method for tetracycline degradation. <i>Materials Letters</i> , 2020, 264, 127005.	1.3	8

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2001	Improving Electrochemical Hydrogen Evolution of Ag@CN Nanocomposites by Synergistic Effects with I [±] -Rich Proteins. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2207-2215.	4.0	20
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2011	Interfaces of graphitic carbon nitride-based composite photocatalysts. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4754-4793.	3.0	41

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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. <i>Catalysis Science and Technology</i> , 2020, 10, 8295-8304.	2.1	37
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2030	Wavelength dependent luminescence decay kinetics in ¹³ C-quantum-confined g-C ₃ N ₄ nanosheets exhibiting high photocatalytic efficiency upon plasmonic coupling. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20581-20592.	5.2	16

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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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2976	Ligand-free Au nanoclusters/g-C ₃ N ₄ ultra-thin nanosheets composite photocatalysts for efficient visible-light-driven photocatalytic H ₂ generation. <i>Journal of Materials Science</i> , 2021, 56, 13736-13751.	1.7	4
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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3046	Photoinduced Self-Assembly of Carbon Nitride Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19413-19418.	7.2	39
3047	Defect-Engineered Nanozyme-Linked Receptors. <i>Small</i> , 2021, 17, e2101907.	5.2	36
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3052	Copper single-atoms embedded in 2D graphitic carbon nitride for the CO ₂ reduction. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	54
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3069	Salt-air template synthesis of Na and O doped porous graphitic carbon nitride nanorods with exceptional photocatalytic H ₂ evolution activity. <i>Carbon</i> , 2021, 179, 42-52.	5.4	22
3070	Nonadiabatic Dynamics of Photocatalytic Water Splitting on A Polymeric Semiconductor. <i>Nano Letters</i> , 2021, 21, 6449-6455.	4.5	22
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3088	Hydrogel photocatalysts for efficient energy conversion and environmental treatment. <i>Frontiers in Energy</i> , 2021, 15, 577-595.	1.2	14
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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3254	Sustainable one-step synthesis of nanostructured potassium poly(heptazine imide) for highly boosted photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 424, 130332.	6.6	18
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3269	Structural and compositional tuning in g-C ₃ N ₄ based systems for photocatalytic antibiotic degradation. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100148.	2.4	43
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#	ARTICLE	IF	CITATIONS
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3277	Highly efficient and stable g-C ₃ N ₄ decorated Ta ₃ N ₅ nanotube on n-Si substrate for solar water oxidation. <i>Applied Surface Science</i> , 2021, 565, 150456.	3.1	8
3278	Synergistic catalysis of BiOIO ₃ catalyst for elimination of organic pollutants under simultaneous photo-irradiation and ultrasound-vibration treatment. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 704-713.	5.0	40
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#	ARTICLE	IF	CITATIONS
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3290	Interfacial charge transfer in carbon nitride heterojunctions monitored by optical methods. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 49, 100453.	5.6	26
3291	Perylenetetracarboxylic diimide covalently bonded with mesoporous g-C ₃ N ₄ to construct direct Z-scheme heterojunctions for efficient photocatalytic oxidative coupling of amines. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120534.	10.8	71
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3293	Sustainable synthesis of low-cost nitrogen-doped-carbon coated Co ₃ W ₃ C@g-C ₃ N ₄ composite photocatalyst for efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 426, 131208.	6.6	40
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#	ARTICLE	IF	CITATIONS
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4381	Coordination-Assistant Chiral Agent Anchoring on Amphiphilic Graphitic Phase Carbon Nitride Membrane for Multiple Molecular Separation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 50235-50245.	4.0	1
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4457	A Comprehensive Review on Graphitic Carbon Nitride for Carbon Dioxide Photoreduction. <i>Small Methods</i> , 2022, 6, .	4.6	14
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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4495	Edge-grafting carbon nitride with aromatic rings for highly-efficient charge separation and enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2023, 13, 528-535.	2.1	2
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4637	2-Dimensional g-C ₃ N ₄ nanosheets modified LAMP-based "Polymer-in-Ceramic" electrolyte for solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , 2023, 942, 169064.	2.8	6
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4639	Ultrathin Pd metallenes as novel co-catalysts for efficient photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2023, 618, 156597.	3.1	3
4640	Covalent organic framework films grown on spongy g-C ₃ N ₄ for efficient photocatalytic hydrogen production. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 439, 114590.	2.0	2
4641	Facile synthesis of NiO-loaded g-C ₃ N ₄ heterojunction photocatalyst for efficient photocatalytic degradation of 4-nitrophenol under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 439, 114576.	2.0	39
4642	Recent advances on g-C ₃ N ₄ -based Z-scheme photocatalysts for organic pollutant removal. <i>Catalysis Science and Technology</i> , 2023, 13, 2877-2898.	2.1	10
4643	Interfacial Chemical Bond Engineering in a Direct Z-Scheme g-C ₃ N ₄ /MoS ₂ Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 11731-11740.	4.0	19
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4645	Engineering high-coordinated cerium single-atom sites on carbon nitride nanosheets for efficient photocatalytic amine oxidation and water splitting into hydrogen. <i>Chemical Engineering Journal</i> , 2023, 462, 142084.	6.6	21
4646	Dual morphology ZnCo ₂ O ₄ coupled graphitic carbon nitride: An efficient electro-catalyst for electrochemical H ₂ O ₂ production and methanol oxidation reaction. <i>Electrochimica Acta</i> , 2023, 447, 142161.	2.6	1
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4650	Selenium—decorated nitrogen-rich honeycomb-like g-C ₃ N ₄ as anode materials for lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2023, 298, 127463.	2.0	1
4651	Adjacent diatomic Cu ₁ N ₃ /Mo ₁ S ₂ entities decorated carbon nitride for markedly enhanced photocatalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2023, 463, 142470.	6.6	2
4652	Carbon quantum dots (CQDs) mediated Z-scheme g-C ₃ N ₄ /CQDs/BiVO ₄ heterojunction with enhanced visible light photocatalytic degradation of Paraben. <i>Chemosphere</i> , 2023, 323, 138248.	4.2	19

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4658	A photo-enzyme coupling catalysis system with high enzyme loading for the efficient degradation of BPA in water. <i>Separation and Purification Technology</i> , 2023, 313, 123392.	3.9	7
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4661	Photocatalytic ipso-nitration of bromophenol intermediates on Ag/g-C ₃ N ₄ . <i>Sustainable Chemistry and Pharmacy</i> , 2023, 33, 101077.	1.6	0
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4693	Photocatalytic oxygen reduction reaction over copper-indium-sulfide modified polymeric carbon nitride S-scheme heterojunction photocatalyst. <i>Journal of Catalysis</i> , 2023, 419, 9-18.	3.1	7
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#	ARTICLE	IF	CITATIONS
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