Ionothermal Synthesis of Crystalline, Condensed, Grapl

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Citation Report

#	Article	IF	Citations
1	Carbon nitride:Ab initioinvestigation of carbon-rich phases. Physical Review B, 2009, 80, .	1.1	48
2	Mesoporous, 2D Hexagonal Carbon Nitride and Titanium Nitride/Carbon Composites. Advanced Materials, 2009, 21, 4270-4274.	11.1	309
3	Graphitic carbon nitride C6N9H3Â·HCl: Characterisation by UV and near-IR FT Raman spectroscopy. Journal of Solid State Chemistry, 2009, 182, 2670-2677.	1.4	80
4	Protonated Melonate Ca[HC6N7(NCN)3]Â·7H2O - Synthesis, Crystal Structure, and Thermal Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, NA-NA.	0.6	6
5	Rb₃[C₆N₇(NCN)₃]Â·3H₂O and Cs₃[C₆N₇(NCN)₃]Â·3H₂O â€“ Synthesis, Crystal Structure and Thermal Behavior of Two Novel Alkali Melonates. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 2197-2202.	0.6	18
6	Photodegradation Performance of g-C₃N₄ Fabricated by Directly Heating Melamine. Langmuir, 2009, 25, 10397-10401.	1.6	2,435
7	A comparative study of Siâ€“Câ€“N films on different substrates grown by RF magnetron sputtering. Journal of Alloys and Compounds, 2009, 478, 474-478.	2.8	27
8	Activation of Carbon Nitride Solids by Protonation: Morphology Changes, Enhanced Ionic Conductivity, and Photoconduction Experiments. Journal of the American Chemical Society, 2009, 131, 50-51.	6.6	721
9	First principles study of C3N4 carbon nitride nanotubes. Journal of Materials Chemistry, 2009, 19, 3020.	6.7	57
10	Corrugated layered heptazine-based carbon nitride: the lowest energy modifications of C3N4 ground state. Journal of Materials Chemistry, 2009, 19, 3013.	6.7	122
11	Structure elucidation of polyheptazine imide by electron diffractionâ€”a templated 2D carbon nitride network. Chemical Communications, 2009, , 1541.	2.2	104
12	Nanostructured Poly(benzimidazole): From Mesoporous Networks to Nanofibers. ChemSusChem, 2010, 3, 181-187.	3.6	29
13	Facile Oneâ€Pot Synthesis of Nanoporous Carbon Nitride Solids by Using Soft Templates. ChemSusChem, 2010, 3, 435-439.	3.6	313
14	Fluidic Carbon Precursors for Formation of Functional Carbon under Ambient Pressure Based on Ionic Liquids. Advanced Materials, 2010, 22, 1004-1007.	11.1	316
15	Rational Extension of the Family of Layered, Covalent, Triazineâ€Based Frameworks with Regular Porosity. Advanced Materials, 2010, 22, 2202-2205.	11.1	465
18	Boronâ€•and Fluorineâ€Containing Mesoporous Carbon Nitride Polymers: Metalâ€Free Catalysts for Cyclohexane Oxidation. Angewandte Chemie - International Edition, 2010, 49, 3356-3359.	7.2	643
19	Cubic Mesoporous Graphitic Carbon(IV) Nitride: An Allâ€inâ€One Chemosensor for Selective Optical Sensing of Metal Ions. Angewandte Chemie - International Edition, 2010, 49, 9706-9710.	7.2	266
20	The impact of urea on the performance of metal exchanged zeolites for the selective catalytic reduction of NOxPart I. Pyrolysis and hydrolysis of urea over zeolite catalysts. Applied Catalysis B: Environmental, 2010, 97, 90-97.	10.8	100

#	Article	IF	Citations
21	Ionothermal Route to Layered Two-Dimensional Polymer-Frameworks Based on Heptazine Linkers. Macromolecules, 2010, 43, 6639-6645.	2.2	61
22	A detailed view on the polycondensation of ionic liquid monomers towards nitrogen doped carbon materials. Journal of Materials Chemistry, 2010, 20, 6746.	6.7	247
23	The use of ionic liquids in the synthesis of zinc imidazolate frameworks. Dalton Transactions, 2010, 39, 1758-1762.	1.6	56
24	Graphitic carbon nitride as a metal-free catalyst for NO decomposition. Chemical Communications, 2010, 46, 6965.	2.2	186
25	Nitrogen-Rich Carbon Nitride Hollow Vessels: Synthesis, Characterization, and Their Properties. Journal of Physical Chemistry B, 2010, 114, 9429-9434.	1.2	242
26	New directions in carbonitride research: synthesis of resin-like dense-packed C3N4 using a hydrogen-free precursor. Journal of Materials Chemistry, 2010, 20, 4183.	6.7	41
27	Cyanogen isocyanate (NCâ€“NCO) revisited: thermal and chemical reactivity of a hydrogen-free precursor to Câ€“Nâ€“(O) polymers. Journal of Materials Chemistry, 2010, 20, 110-116.	6.7	12
28	Photodegradation of Rhodamine B and Methyl Orange over Boron-Doped g-C₃N₄ under Visible Light Irradiation. Langmuir, 2010, 26, 3894-3901.	1.6	1,529
29	Developing a polymeric semiconductor photocatalyst with visible light response. Chemical Communications, 2010, 46, 7325.	2.2	132
30	Tackling the stacking disorder of melonâ€”structure elucidation in a semicrystalline material. Physical Chemistry Chemical Physics, 2010, 12, 2227.	1.3	60
31	First-Principles Study of the Adsorption of Water on Tri-s-triazine-based Graphitic Carbon Nitride. Japanese Journal of Applied Physics, 2010, 49, 115703.	0.8	59
32	Solvothermal synthesis of carboxyl and amido functionalized mesoporous resins for water treatments. Journal of Materials Chemistry, 2010, 20, 4609-4614.	6.7	32
33	Melem- and melamine-derived iminophosphoranes. New Journal of Chemistry, 2010, 34, 1893.	1.4	25
34	Boron and nitrogen-rich carbons from ionic liquid precursors with tailorable surface properties. Physical Chemistry Chemical Physics, 2011, 13, 13486.	1.3	98
35	Synthesis of bulk and nanoporous carbon nitride polymers from ammonium thiocyanate for photocatalytic hydrogen evolution. Journal of Materials Chemistry, 2011, 21, 13032.	6.7	426
36	Experimental study on the stability of graphitic C3N4 under high pressure and high temperature. Diamond and Related Materials, 2011, 20, 819-825.	1.8	61
37	Simple pyrolysis of urea into graphitic carbon nitride with recyclable adsorption and photocatalytic activity. Journal of Materials Chemistry, 2011, 21, 14398.	6.7	1,410
38	Efficient synthesis of polymeric g-C3N4 layered materials as novel efficient visible light driven photocatalysts. Journal of Materials Chemistry, 2011, 21, 15171.	6.7	940

#	Article	IF	Citations
39	Preparation and Enhanced Visible-Light Photocatalytic H₂-Production Activity of Graphene/C₃N₄ Composites. Journal of Physical Chemistry C, 2011, 115, 7355-7363.	1.5	1,694
40	Sulfur-mediated synthesis of carbon nitride: Band-gap engineering and improved functions for photocatalysis. Energy and Environmental Science, 2011, 4, 675-678.	15.6	704
41	Hydrogen production using zinc-doped carbon nitride catalyst irradiated with visible light. Science and Technology of Advanced Materials, 2011, 12, 034401.	2.8	292
42	Acid-driven, microwave-assisted production of photoluminescent carbon nitride dots from N,N-dimethylformamide. RSC Advances, 2011, 1, 951.	1.7	81
43	Direct conversion of urea into graphitic carbon nitride over mesoporous TiO₂spheres under mild condition. Chemical Communications, 2011, 47, 1066-1068.	2.2	148
44	Preparation of photoluminescent carbon nitride dots from CCl4 and 1,2-ethylenediamine: a heat-treatment-based strategy. Journal of Materials Chemistry, 2011, 21, 11726.	6.7	179
46	g-C3N4/SiO2â€“HNb3O8 composites with enhanced photocatalytic activities for rhodamine B degradation under visible light. Journal of Molecular Catalysis A, 2011, 345, 90-95.	4.8	30
47	Visible Light Photocatalysis of BiOI and Its Photocatalytic Activity Enhancement by in Situ Ionic Liquid Modification. Journal of Physical Chemistry C, 2011, 115, 14300-14308.	1.5	267
48	Boron Carbon Nitride Nanostructures from Salt Melts: Tunable Water-Soluble Phosphors. Journal of the American Chemical Society, 2011, 133, 7121-7127.	6.6	428
49	Condensed Graphitic Carbon Nitride Nanorods by Nanoconfinement: Promotion of Crystallinity on Photocatalytic Conversion. Chemistry of Materials, 2011, 23, 4344-4348.	3.2	393
50	Photodegradation performance of methylene blue aqueous solution on Ag/g-C3N4 catalyst. Rare Metals, 2011, 30, 276-279.	3.6	42
51	Copper(II) Melonates Cu₃[C₆N₇(NCN)₃]₂Â·8H₂O and [Cu(C₂H₈N₂)₂]₃[C₆N₇(NCN)₃]₂â€“ Using the Terminal Cyano Group of the[C₆N₇(NCN)₃]^{3â€“} Ion for Complexation. Zeitschrift Für Anorganische Und Allgemeine Chemie, 2011, 637, 2246-2251.	0.6	7
52	Poly(triazine imide) with Intercalation of Lithium and Chloride Ions [(C₃N₃)₂(NH_xLi_{1â^'x})₃...LiCl]: A Crystalline 2D Carbon Nitride Network. Chemistry - A European Journal, 2011, 17, 3213-3221.	1.2	283
53	Preparation of a semiconductive compound obtained by the pyrolysis of urea under N2 and the photocatalytic property under visible light irradiation. Catalysis Today, 2011, 161, 41-45.	2.2	20
54	New insights into the structure and chemistry of Titanâ€™s tholins via 13C and 15N solid state nuclear magnetic resonance spectroscopy. Icarus, 2012, 221, 844-853.	1.1	39
55	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. Energy and Environmental Science, 2012, 5, 6717.	15.6	1,552
57	Construction of Conjugated Carbon Nitride Nanoarchitectures in Solution at Low Temperatures for Photoredox Catalysis. Angewandte Chemie - International Edition, 2012, 51, 11814-11818.	7.2	519
58	Theoretical and experimental study on narrowing the band gap of carbon nitride photocatalyst by coupling a wide gap molecule. Chemical Physics Letters, 2012, 550, 175-180.	1.2	19

#	Article	IF	Citations
59	Simultaneous sensitization and hole activation in carbon nitride polymer sensitized TiO2. RSC Advances, 2012, 2, 5585.	1.7	18
60	A molten-salt route for synthesis of Si and Ge nanoparticles: chemical reduction of oxides by electrons solvated in salt melt. Journal of Materials Chemistry, 2012, 22, 5454.	6.7	63
61	Tunable magnetic states in hexagonal boron nitride sheets. Applied Physics Letters, 2012, 101, .	1.5	26
62	Density functional theory-based analysis on O2 molecular interaction with the tri-s-triazine-based graphitic carbon nitride. Surface Science, 2012, 606, 892-901.	0.8	56
63	Synthesis of Carbon Nitride Semiconductors in Sulfur Flux for Water Photoredox Catalysis. ACS Catalysis, 2012, 2, 940-948.	5.5	397
64	Band gap of C3N4 in the GW approximation. International Journal of Hydrogen Energy, 2012, 37, 11072-11080.	3.8	208
65	Polymeric Graphitic Carbon Nitride for Heterogeneous Photocatalysis. ACS Catalysis, 2012, 2, 1596-1606.	5.5	1,541
66	A general strategy for the production of photoluminescent carbon nitride dots from organic amines and their application as novel peroxidase-like catalysts for colorimetric detection of H₂O₂and glucose. RSC Advances, 2012, 2, 411-413.	1.7	201
67	Organic-inorganic composite of g-C3N4â€"SrTiO3:Rh photocatalyst for improved H2 evolution under visible light irradiation. International Journal of Hydrogen Energy, 2012, 37, 11602-11610.	3.8	111
68	Facile transformation of low cost thiourea into nitrogen-rich graphitic carbon nitride nanocatalyst with high visible light photocatalytic performance. Catalysis Science and Technology, 2012, 2, 1332.	2.1	253
70	A Strategy of Enhancing the Photoactivity of g-C₃N₄ via Doping of Nonmetal Elements: A First-Principles Study. Journal of Physical Chemistry C, 2012, 116, 23485-23493.	1.5	590
71	Nonlinear optical properties of carbon nitride nanotubes. Physical Chemistry Chemical Physics, 2012, 14, 835-839.	1.3	17
72	Photocatalytic Synthesis of Phenol by Direct Hydroxylation of Benzene by a Modified Nanoporous Silica (LUS-1) under Sunlight. Chinese Journal of Catalysis, 2012, 33, 1347-1353.	6.9	21
73	Tunable optical transition in polymeric carbon nitrides synthesized via bulk thermal condensation. Journal of Physics Condensed Matter, 2012, 24, 162201.	0.7	51
74	Nitrogen Vacancy-Promoted Photocatalytic Activity of Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2012, 116, 11013-11018.	1.5	570
75	Economical, Green Synthesis of Fluorescent Carbon Nanoparticles and Their Use as Probes for Sensitive and Selective Detection of Mercury(II) Ions. Analytical Chemistry, 2012, 84, 5351-5357.	3.2	986
76	Porous, Fluorescent, Covalent Triazineâ€Based Frameworks Via Roomâ€Temperature and Microwaveâ€Assisted Synthesis. Advanced Materials, 2012, 24, 2357-2361.	11.1	636
77	Synthesis of Nitrogenâ€Rich Mesoporous Carbon Nitride with Tunable Pores, Band Gaps and Nitrogen Content from a Single Aminoguanidine Precursor. ChemSusChem, 2012, 5, 700-708.	3.6	136

#	Article	IF	Citations
78	Silver Melonates and Coordination Modes of the Multidentate [C6N7(NCN)3]3- Anion. European Journal of Inorganic Chemistry, 2012, 2012, 978-986.	1.0	4
79	Hydrothermal Treatment of Grass: A Lowâ€Cost, Green Route to Nitrogenâ€Doped, Carbonâ€Rich, Photoluminescent Polymer Nanodots as an Effective Fluorescent Sensing Platform for Labelâ€Free Detection of Cu(II) Ions. Advanced Materials, 2012, 24, 2037-2041.	11.1	1,345
81	Polymeric Graphitic Carbon Nitride as a Heterogeneous Organocatalyst: From Photochemistry to Multipurpose Catalysis to Sustainable Chemistry. Angewandte Chemie - International Edition, 2012, 51, 68-89.	7.2	2,897
82	Salt melt synthesis of ceramics, semiconductors and carbon nanostructures. Chemical Society Reviews, 2013, 42, 8237.	18.7	521
83	Tri-s-triazines (s-heptazines)â€"From a â€œmystery moleculeâ€• to industrially relevant carbon nitride materials. Coordination Chemistry Reviews, 2013, 257, 2032-2062.	9.5	216
84	Engineering the nanoarchitecture and texture of polymeric carbon nitride semiconductor for enhanced visible light photocatalytic activity. Journal of Colloid and Interface Science, 2013, 401, 70-79.	5.0	358
85	H₂ and O₂ Evolution from Water Half-Splitting Reactions by Graphitic Carbon Nitride Materials. Journal of Physical Chemistry C, 2013, 117, 7178-7185.	1.5	406
86	Ascorbic acid assisted green route for synthesis of water dispersible carbon dots. Chemical Research in Chinese Universities, 2013, 29, 401-403.	1.3	18
87	Materials from Extreme Conditions. , 2013, , 17-46.		4
88	Synthesis and photocatalytic performance of europium-doped graphitic carbon nitride. Journal of Rare Earths, 2013, 31, 1085-1091.	2.5	62
89	Triazineâ€based Carbon Nitrides for Visibleâ€Lightâ€Driven Hydrogen Evolution. Angewandte Chemie - International Edition, 2013, 52, 2435-2439.	7.2	401
90	Hydrothermal Synthesis of Graphitic Carbon Nitrideâ€"Bi₂WO₆ Heterojunctions with Enhanced Visible Light Photocatalytic Activities. ACS Applied Materials & Interfaces, 2013, 5, 7079-7085.	4.0	457
91	In Situ Construction of g-C₃N₄/g-C₃N₄ Metal-Free Heterojunction for Enhanced Visible-Light Photocatalysis. ACS Applied Materials & Interfaces, 2013, 5, 11392-11401.	4.0	1,102
92	Turn-on Persistent Luminescence Probe Based on Graphitic Carbon Nitride for Imaging Detection of Biothiols in Biological Fluids. Analytical Chemistry, 2013, 85, 11876-11884.	3.2	197
93	Facile Fabrication of Highly Efficient g-C₃N₄/Ag₂O Heterostructured Photocatalysts with Enhanced Visible-Light Photocatalytic Activity. ACS Applied Materials & Interfaces, 2013, 5, 12533-12540.	4.0	542
94	Natural leaves-assisted synthesis of nitrogen-doped, carbon-rich nanodots-sensitized, Ag-loaded anatase TiO2 square nanosheets with dominant {001} facets and their enhanced catalytic applications. Journal of Materials Chemistry A, 2013, 1, 14963.	5.2	69
95	Threeâ€Dimensional Macroscopic Assemblies of Lowâ€Dimensional Carbon Nitrides for Enhanced Hydrogen Evolution. Angewandte Chemie - International Edition, 2013, 52, 11083-11087.	7.2	278
96	Preparation of graphitic carbon nitride (g-C3N4)/WO3 composites and enhanced visible-light-driven photodegradation of acetaldehyde gas. Journal of Hazardous Materials, 2013, 260, 475-482.	6.5	265

#	Article	IF	Citations
98	Molecule-induced gradient electronic potential distribution on a polymeric photocatalyst surface and improved photocatalytic performance. Journal of Materials Chemistry A, 2013, 1, 5142.	5.2	35
99	Tuning of gallery heights in a crystalline 2D carbon nitride network. Journal of Materials Chemistry A, 2013, 1, 1102-1107.	5.2	98
100	Photophysics of polymeric carbon nitride: An optical quasimonomer. Physical Review B, 2013, 87, .	1.1	118
101	Novel C3N4â€“CdS composite photocatalysts with organicâ€“inorganic heterojunctions: in situ synthesis, exceptional activity, high stability and photocatalytic mechanism. Journal of Materials Chemistry A, 2013, 1, 3083.	5.2	471
102	Large scale boron carbon nitride nanosheets with enhanced lithium storage capabilities. Chemical Communications, 2013, 49, 352-354.	2.2	110
103	Synthesis and Photocatalytic Activity of Poly(triazine imide). Chemistry - an Asian Journal, 2013, 8, 218-224.	1.7	131
104	Highly Selective Synthesis of Phenol from Benzene over a Vanadiumâ€Doped Graphitic Carbon Nitride Catalyst. ChemCatChem, 2013, 5, 192-200.	1.8	137
105	Tungsten Carbide Nanoparticles as Efficient Cocatalysts for Photocatalytic Overall Water Splitting. ChemSusChem, 2013, 6, 168-181.	3.6	190
106	Photocatalytic degradation of 2,4,6-trichlorophenol over g-C3N4 under visible light irradiation. Chemical Engineering Journal, 2013, 218, 183-190.	6.6	265
107	Well-dispersed g-C3N4 nanophases in mesoporous silica channels and their catalytic activity for carbon dioxide activation and conversion. Applied Catalysis B: Environmental, 2013, 136-137, 269-277.	10.8	168
108	Noble metal-free Ni(OH)2â€“g-C3N4 composite photocatalyst with enhanced visible-light photocatalytic H2-production activity. Catalysis Science and Technology, 2013, 3, 1782.	2.1	411
109	Synthesis of a novel and stable g-C3N4â€“Ag3PO4 hybrid nanocomposite photocatalyst and study of the photocatalytic activity under visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 5333.	5.2	584
110	A new and environmentally benign precursor for the synthesis of mesoporous g-C3N4 with tunable surface area. Physical Chemistry Chemical Physics, 2013, 15, 4510.	1.3	225
111	Electrochemical and Solid-State Lithiation of Graphitic C₃N₄. Chemistry of Materials, 2013, 25, 503-508.	3.2	141
112	Exfoliation of Crystalline 2D Carbon Nitride: Thin Sheets, Scrolls and Bundles via Mechanical and Chemical Routes. Macromolecular Rapid Communications, 2013, 34, 850-854.	2.0	74
114	Simple and Green Synthesis of Nitrogenâ€Doped Photoluminescent Carbonaceous Nanospheres for Bioimaging. Angewandte Chemie - International Edition, 2013, 52, 8151-8155.	7.2	430
115	Microwave assisted one-step green synthesis of fluorescent carbon nanoparticles from ionic liquids and their application as novel fluorescence probe for quercetin determination. Journal of Luminescence, 2013, 140, 120-125.	1.5	79
116	Solar hydrogen evolution using metal-free photocatalytic polymeric carbon nitride/CuInS2 composites as photocathodes. Journal of Materials Chemistry A, 2013, , .	5.2	22

#	Article	IF	Citations
117	From Melamineâ€Cyanuric Acid Supramolecular Aggregates to Carbon Nitride Hollow Spheres. Advanced Functional Materials, 2013, 23, 3661-3667.	7.8	737
118	Crystal structure of polymeric carbon nitride and the determination of its process-temperature-induced modifications. Journal of Physics Condensed Matter, 2013, 25, 395402.	0.7	73
119	Identification of new pillared-layered carbon nitride materials at high pressure. Scientific Reports, 2013, 3, 2122.	1.6	15
122	Hierarchically porous graphitic carbon nitride: large-scale facile synthesis and its application toward photocatalytic dye degradation. RSC Advances, 2014, 4, 59436-59439.	1.7	54
124	Low-temperature collapsing boron nitride nanospheres into nanoflakes and their photoluminescence properties. Materials Research Express, 2014, 1, 035035.	0.8	6
125	ZnS microsphere/g-C₃N₄nanocomposite photo-catalyst with greatly enhanced visible light performance for hydrogen evolution: synthesis and synergistic mechanism study. RSC Advances, 2014, 4, 62223-62229.	1.7	46
126	Carbon Nitride Photocatalysts for Water Splitting: A Computational Perspective. Journal of Physical Chemistry C, 2014, 118, 24833-24842.	1.5	106
127	Structure defects in g-C₃N₄ limit visible light driven hydrogen evolution and photovoltage. Journal of Materials Chemistry A, 2014, 2, 20338-20344.	5.2	233
128	Synthesis of Potassiumâ€Modified Graphitic Carbon Nitride with High Photocatalytic Activity for Hydrogen Evolution. ChemSusChem, 2014, 7, 2654-2658.	3.6	166
129	A fantastic graphitic carbon nitride (g-C3N4) material: Electronic structure, photocatalytic and photoelectronic properties. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 20, 33-50.	5.6	826
130	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. Carbon, 2014, 66, 119-125.	5.4	49
131	Preparation, characterization and photocatalytic performance of g-C3N4/Bi2WO6 composites for methyl orange degradation. Ceramics International, 2014, 40, 9077-9086.	2.3	49
132	A Facile Moltenâ€Salt Route to Graphene Synthesis. Small, 2014, 10, 193-200.	5.2	224
133	Fabrication of nitrogen-doped hierarchically porous carbons through a hybrid dual-template route for CO2 capture and haemoperfusion. Carbon, 2014, 76, 84-95.	5.4	93
134	In situ synchrotron X-ray diffraction in the laser-heated diamond anvil cell: Melting phenomena and synthesis of new materials. Coordination Chemistry Reviews, 2014, 277-278, 15-30.	9.5	37
135	Triazineâ€Based Graphitic Carbon Nitride: a Twoâ€Dimensional Semiconductor. Angewandte Chemie - International Edition, 2014, 53, 7450-7455.	7.2	523
137	Ultrathin Graphitic C₃N₄ Nanosheets/Graphene Composites: Efficient Organic Electrocatalyst for Oxygen Evolution Reaction. ChemSusChem, 2014, 7, 2125-2130.	3.6	232
138	g-C3N4/NaTaO3 organicâ€"inorganic hybrid nanocomposite: High-performance and recyclable visible light driven photocatalyst. Materials Research Bulletin, 2014, 49, 310-318.	2.7	53

#	Article	IF	Citations
139	Molecular Engineering of Functional Inorganic and Hybrid Materials. Chemistry of Materials, 2014, 26, 221-238.	3.2	147
140	Graphitic carbon nitrideâ€"BiVO₄heterojunctions: simple hydrothermal synthesis and high photocatalytic performances. RSC Advances, 2014, 4, 4187-4193.	1.7	92
141	Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 3209-3215.	5.2	61
142	Synthesis of highly efficient and recyclable visible-light responsive mesoporous g-C3N4 photocatalyst via facile template-free sonochemical route. RSC Advances, 2014, 4, 8132.	1.7	68
143	Influence of g-C₃N₄ Nanosheets on Thermal Stability and Mechanical Properties of Biopolymer Electrolyte Nanocomposite Films: A Novel Investigation. ACS Applied Materials & Interfaces, 2014, 6, 429-437.	4.0	159
144	Sorption of Cadmium from Aqueous Solution with a Highly Effective Sorbent â€" B-Doped g-C₃N₄. Separation Science and Technology, 2014, 49, 1566-1573.	1.3	11
145	Linear and nonlinear optical properties for AA and AB stacking of carbon nitride polymorph (C₃N₄). RSC Advances, 2014, 4, 11967-11974.	1.7	30
146	The synergistic effect between WO₃ and g-C₃N₄ towards efficient visible-light-driven photocatalytic performance. New Journal of Chemistry, 2014, 38, 5462-5469.	1.4	69
147	One-step catalase controllable degradation of C₃N₄for N-doped carbon dot green fabrication and their bioimaging applications. Journal of Materials Chemistry B, 2014, 2, 5768.	2.9	54
148	Updating Biomass into Functional Carbon Material in Ionothermal Manner. ACS Applied Materials & Interfaces, 2014, 6, 12515-12522.	4.0	98
149	Enhanced reactive oxygen species on a phosphate modified C3N4/graphene photocatalyst for pollutant degradation. CrystEngComm, 2014, 16, 1287.	1.3	68
150	A carbon nanodot modified Cuâ€"Mnâ€"Ce/ZSM catalyst for the enhanced microwave-assisted degradation of gaseous toluene. RSC Advances, 2014, 4, 14385-14391.	1.7	15
151	Synthesis of mesoporous polymeric carbon nitride exhibiting enhanced and durable visible light photocatalytic performance. Science Bulletin, 2014, 59, 688-698.	1.7	33
152	News from the Biomaterials Science editors. Biomaterials Science, 2014, 2, 8-9.	2.6	0
153	Comparing Two New Composite Photocatalysts, t-LaVO₄/g-C₃N₄ and m-LaVO₄/g-C₃N₄, for Their Structures and Performances. Industrial & Engineering Chemistry Research, 2014, 53, 5905-5915.	1.8	137
154	Polaronic Relaxation by Three-Electron Bond Formation in Graphitic Carbon Nitrides. Journal of Physical Chemistry C, 2014, 118, 4023-4032.	1.5	25
155	Hydrothermal synthesis of graphitic carbon nitrideâ€"BiVO4 composites with enhanced visible light photocatalytic activities and the mechanism study. Journal of Physics and Chemistry of Solids, 2014, 75, 1217-1222.	1.9	60
156	Bamboo leaf-assisted formation of carbon/nitrogen co-doped anatase TiO₂modified with silver and graphitic carbon nitride: novel and green synthesis and cooperative photocatalytic activity. Dalton Transactions, 2014, 43, 13792.	1.6	70

#	Article	IF	Citations
157	Total photocatalysis conversion from cyclohexane to cyclohexanone by C₃N₄/Au nanocomposites. Green Chemistry, 2014, 16, 4559-4565.	4.6	78
158	Intercalated graphitic carbon nitride: a fascinating two-dimensional nanomaterial for an ultra-sensitive humidity nanosensor. Nanoscale, 2014, 6, 9250.	2.8	108
160	Photoelectrochemical Aptasensing of Kanamycin Using Visible Light-Activated Carbon Nitride and Graphene Oxide Nanocomposites. Analytical Chemistry, 2014, 86, 9372-9375.	3.2	167
161	Nitrogen and sulfur co-doped carbon dots with strong blue luminescence. Nanoscale, 2014, 6, 13817-13823.	2.8	497
162	Gold nanoparticles enhanced electrochemiluminescence of graphite-like carbon nitride for the detection of Nuclear Matrix Protein 22. Sensors and Actuators B: Chemical, 2014, 205, 176-183.	4.0	41
163	gtâ€C₃N₄â€"The First Stable Binary Carbon(IV) Nitride. Angewandte Chemie - International Edition, 2014, 53, 11134-11136.	7.2	43
164	Crystalline Carbon Nitride Nanosheets for Improved Visible-Light Hydrogen Evolution. Journal of the American Chemical Society, 2014, 136, 1730-1733.	6.6	614
165	Recent progress on nitrogen/carbon structures designed for use in energy and sustainability applications. Energy and Environmental Science, 2014, 7, 1212-1249.	15.6	559
166	Graphitic carbon nitride/Cu2O heterojunctions: Preparation, characterization, and enhanced photocatalytic activity under visible light. Journal of Solid State Chemistry, 2014, 212, 1-6.	1.4	78
167	Novel Mesoporous Graphite Carbon Nitride/BiOI Heterojunction for Enhancing Photocatalytic Performance Under Visible-Light Irradiation. ACS Applied Materials & Interfaces, 2014, 6, 5083-5093.	4.0	301
168	One-Pot Green Synthesis of High Quantum Yield Oxygen-Doped, Nitrogen-Rich, Photoluminescent Polymer Carbon Nanoribbons as an Effective Fluorescent Sensing Platform for Sensitive and Selective Detection of Silver(I) and Mercury(II) Ions. Analytical Chemistry, 2014, 86, 7436-7445.	3.2	153
169	Cathodic electrochemiluminescence immunosensor based on nanocomposites of semiconductor carboxylated g-C3N4 and graphene for the ultrasensitive detection of squamous cell carcinoma antigen. Biosensors and Bioelectronics, 2014, 55, 330-336.	5.3	158
170	Spongeâ€like Nickel and Nickel Nitride Structures for Catalytic Applications. Advanced Materials, 2014, 26, 1272-1276.	11.1	71
171	Graphitic Carbon Nitride Supported Catalysts for Polymer Electrolyte Fuel Cells. Journal of Physical Chemistry C, 2014, 118, 6831-6838.	1.5	63
172	Highly-Ordered Mesoporous Carbon Nitride with Ultrahigh Surface Area and Pore Volume as a Superior Dehydrogenation Catalyst. Chemistry of Materials, 2014, 26, 3151-3161.	3.2	233
173	Influence of Rh nanoparticle size and composition on the photocatalytic water splitting performance of Rh/graphitic carbon nitride. International Journal of Hydrogen Energy, 2014, 39, 11537-11546.	3.8	67
174	Highly Efficient Photocatalytic Activity of g-C₃N₄/Ag₃PO₄ Hybrid Photocatalysts through Z-Scheme Photocatalytic Mechanism under Visible Light. Industrial & Engineering Chemistry Research, 2014, 53, 8018-8025.	1.8	375
175	Facile Approach to Synthesize g-PAN/g-C₃N₄ Composites with Enhanced Photocatalytic H₂ Evolution Activity. ACS Applied Materials & Interfaces, 2014, 6, 7171-7179.	4.0	266

#	Article	IF	Citations
176	Carbon-Doped ZnO Hybridized Homogeneously with Graphitic Carbon Nitride Nanocomposites for Photocatalysis. Journal of Physical Chemistry C, 2014, 118, 10963-10971.	1.5	259
177	Efficient and Durable Visible Light Photocatalytic Performance of Porous Carbon Nitride Nanosheets for Air Purification. Industrial & Engineering Chemistry Research, 2014, 53, 2318-2330.	1.8	159
178	First principles calculations of the pressure affection to g-C3N4. Computational Materials Science, 2014, 91, 258-265.	1.4	16
179	Etching graphitic carbon nitride by acid for enhanced photocatalytic activity toward degradation of 4-nitrophenol. Chinese Chemical Letters, 2014, 25, 1247-1251.	4.8	21
182	Protic Salts of High Nitrogen Content as Versatile Precursors for Graphitic Carbon Nitride: Anion Effect on the Structure, Properties, and Photocatalytic Activity. ChemPlusChem, 2015, 80, 1139-1147.	1.3	15
184	Metalâ€Free Carbonaceous Materials as Promising Heterogeneous Catalysts. ChemCatChem, 2015, 7, 2765-2787.	1.8	118
185	Porous Carbon Supports: Recent Advances with Various Morphologies and Compositions. ChemCatChem, 2015, 7, 2788-2805.	1.8	83
186	Graphitic Carbon Nitride Polymers toward Sustainable Photoredox Catalysis. Angewandte Chemie - International Edition, 2015, 54, 12868-12884.	7.2	1,223
187	Synergic Effect between Adsorption and Photocatalysis of Metal-Free g-C3N4 Derived from Different Precursors. PLoS ONE, 2015, 10, e0142616.	1.1	57
188	Structural band-gap tuning in g-C₃N₄. Physical Chemistry Chemical Physics, 2015, 17, 957-962.	1.3	107
189	The phase diagram and hardness of carbon nitrides. Scientific Reports, 2015, 5, 9870.	1.6	78
190	Temperature-controlled morphology evolution of graphitic carbon nitride nanostructures and their photocatalytic activities under visible light. RSC Advances, 2015, 5, 49317-49325.	1.7	113
191	Ultrathin graphitic C3N4 nanofibers: Hydrolysis-driven top-down rapid synthesis and application as a novel fluorosensor for rapid, sensitive, and selective detection of Fe3+. Sensors and Actuators B: Chemical, 2015, 216, 453-460.	4.0	81
192	Graphite-like carbon nitride and functionalized layered double hydroxide filled polypropylene-grafted maleic anhydride nanocomposites: Comparison in flame retardancy, and thermal, mechanical and UV-shielding properties. Composites Part B: Engineering, 2015, 79, 277-284.	5.9	54
193	Highly Enhanced Gas Sorption Capacities of N-Doped Porous Carbon Spheres by Hot NH₃ and CO₂ Treatments. Journal of Physical Chemistry C, 2015, 119, 28512-28522.	1.5	55
194	Enhanced supercapacitive performance of graphite-like C3N4 assembled with NiAl-layered double hydroxide. Electrochimica Acta, 2015, 186, 292-301.	2.6	97
195	Dramatic activity of a Bi₂WO₆@g-C₃N₄ photocatalyst with a core@shell structure. RSC Advances, 2015, 5, 99339-99346.	1.7	54
196	Photocatalytic activity enhancement of modified g-C3N4 by ionothermal copolymerization. Journal of Materiomics, 2015, 1, 340-347.	2.8	62

#	Article	IF	Citations
197	NaOH-embedded three-dimensional porous boron nitride for efficient formaldehyde removal. Nanotechnology, 2015, 26, 475704.	1.3	10
198	Analytical Investigation of Urea Deposits in SCR System. SAE International Journal of Engines, 0, 8, 1219-1239.	0.4	36
199	Unique Graphitic Carbon Nitride Nanovessels as Recyclable Adsorbent for Solid Phase Extraction of Benzoylurea Pesticides in Juices Samples. Food Analytical Methods, 2015, 8, 2202-2210.	1.3	23
200	Carbon dots based turn-on fluorescent probes for oxytetracycline hydrochloride sensing. RSC Advances, 2015, 5, 19853-19858.	1.7	52
201	Novel band gap-tunable Kâ€"Na co-doped graphitic carbon nitride prepared by molten salt method. Applied Surface Science, 2015, 332, 625-630.	3.1	129
202	Graphitic carbon nitride (g-C₃N₄) as a metal-free catalyst for thermal decomposition of ammonium perchlorate. RSC Advances, 2015, 5, 24507-24512.	1.7	104
203	Synthesis of g-C3N4 with heating acetic acid treated melamine and its photocatalytic activity for hydrogen evolution. Applied Surface Science, 2015, 354, 196-200.	3.1	117
204	Promotional effect of N-doped CeO2 supported CoOx catalysts with enhanced catalytic activity on NO oxidation. Journal of Molecular Catalysis A, 2015, 398, 344-352.	4.8	35
205	Stability and electronic structures of triazine-based carbon nitride nanotubes. RSC Advances, 2015, 5, 10892-10898.	1.7	11
206	Carbon Nitride in Energy Conversion and Storage: Recent Advances and Future Prospects. ChemSusChem, 2015, 8, 931-946.	3.6	195
207	Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. Science, 2015, 347, 970-974.	6.0	3,803
208	Fast and facile preparation of metal-doped g-C3N4 composites for catalytic synthesis of dimethyl carbonate. Applied Catalysis A: General, 2015, 496, 1-8.	2.2	111
209	Hydrodechlorination and further hydrogenation of 4-chlorophenol to cyclohexanone in water over Pd nanoparticles modified N-doped mesoporous carbon microspheres. Chemical Engineering Journal, 2015, 270, 215-222.	6.6	64
210	Highly selective CO₂ photoreduction to CO over g-C₃N₄/Bi₂WO₆ composites under visible light. Journal of Materials Chemistry A, 2015, 3, 5189-5196.	5.2	338
211	Synthesis of graphene with both high nitrogen content and high surface area by annealing composite of graphene oxide and g-C3N4. Journal of the Iranian Chemical Society, 2015, 12, 807-814.	1.2	12
212	In-situ synthesis of CdS/g-C3N4 hybrid nanocomposites with enhanced visible photocatalytic activity. Journal of Materials Science, 2015, 50, 3057-3064.	1.7	43
213	Facile fabrication of a mpg-C₃N₄/TiO₂ heterojunction photocatalyst with enhanced visible light photoactivity toward organic pollutant degradation. RSC Advances, 2015, 5, 64976-64982.	1.7	32
214	Laser ablation of molecular carbon nitride compounds. Applied Surface Science, 2015, 349, 353-360.	3.1	11

#	Article	IF	Citations
215	Mechanistic insight into the water photooxidation on pure and sulfur-doped g-C3N4 photocatalysts from DFT calculations with dispersion corrections. Journal of Molecular Catalysis A, 2015, 406, 137-144.	4.8	81
216	Ag₂O modified g-C₃N₄ for highly efficient photocatalytic hydrogen generation under visible light irradiation. Journal of Materials Chemistry A, 2015, 3, 15710-15714.	5.2	103
217	Triazoles: A New Class of Precursors for the Synthesis of Negatively Charged Carbon Nitride Derivatives. Chemistry of Materials, 2015, 27, 5170-5179.	3.2	198
218	Simple hydrothermal preparation of carbon nanodots and their application in colorimetric and fluorimetric detection of mercury ions. Analytical Methods, 2015, 7, 7540-7547.	1.3	36
219	First principle modeling of oxygen-doped monolayer graphitic carbon nitride. Materials Chemistry and Physics, 2015, 161, 194-200.	2.0	101
220	Synthesis and characterization of g-C3N4/BiFeO3 composites with an enhanced visible light photocatalytic activity. Materials Science in Semiconductor Processing, 2015, 40, 439-445.	1.9	106
221	One-step electrochemical synthesis of ultrathin graphitic carbon nitride nanosheets and their application to the detection of uric acid. Chemical Communications, 2015, 51, 12251-12253.	2.2	112
222	A visible light induced photoelectrochemical aptsensor constructed by aligned ZnO@CdTe core shell nanocable arrays/carboxylated g-C3N4 for the detection of Proprotein convertase subtilisin/kexin type 6 gene. Biosensors and Bioelectronics, 2015, 74, 49-58.	5.3	51
223	Photoelectrochemical properties and photodegradation of organic pollutants using hematite hybrids modified by gold nanoparticles and graphitic carbon nitride. Applied Catalysis B: Environmental, 2015, 176-177, 654-666.	10.8	119
224	Facile preparation of SBA-15-supported carbon nitride materials for high-performance base catalysis. Microporous and Mesoporous Materials, 2015, 211, 105-112.	2.2	22
225	Remarkable enhancement in visible-light absorption and electron transfer of carbon nitride nanosheets with 1% tungstate dopant. Applied Catalysis B: Environmental, 2015, 176-177, 91-98.	10.8	18
226	Facile Synthesis of Crystalline Polymeric Carbon Nitrides with an Enhanced Photocatalytic Performance under Visible Light. ChemCatChem, 2015, 7, 2897-2902.	1.8	38
227	Fluorescent N-doped carbon dots for both cellular imaging and highly-sensitive catechol detection. Carbon, 2015, 91, 66-75.	5.4	161
228	Synthesis, characterization, and enhanced properties of novel graphite-like carbon nitride/polyimide composite films. High Performance Polymers, 2015, 27, 950-960.	0.8	20
229	Lithium Charge Storage Mechanisms of Cross-Linked Triazine Networks and Their Porous Carbon Derivatives. Chemistry of Materials, 2015, 27, 3821-3829.	3.2	53
230	Synthesis of Triazineâ€Based Materials by Functionalization with Alkynes. Chemistry - A European Journal, 2015, 21, 7866-7873.	1.7	9
231	As a new peroxidase mimetics: The synthesis of selenium doped graphitic carbon nitride nanosheets and applications on colorimetric detection of H2O2 and xanthine. Sensors and Actuators B: Chemical, 2015, 216, 418-427.	4.0	152
232	Hydroxyl-rich C-dots synthesized by a one-pot method and their application in the preparation of noble metal nanoparticles. Chemical Communications, 2015, 51, 7164-7167.	2.2	86

#	Article	IF	Citations
233	A uniformly porous 2D CN (1â€‰:â€‰1) network predicted by first-principles calculations. RSC Advances, 2015, 5, 11791-11796.	1.7	6
234	Isoelectric point and adsorption activity of porous g-C3N4. Applied Surface Science, 2015, 344, 188-195.	3.1	753
235	Metal halides supported on mesoporous carbon nitride as efficient heterogeneous catalysts for the cycloaddition of CO2. Journal of Molecular Catalysis A, 2015, 403, 77-83.	4.8	60
236	Facile synthesis of new, highly efficient SnO₂/carbon nitride composite photocatalysts for the hydrogen evolution reaction. Green Chemistry, 2015, 17, 3350-3361.	4.6	73
237	A general method for type I and type II g-C₃N₄/g-C₃N₄ metal-free isotype heterostructures with enhanced visible light photocatalysis. New Journal of Chemistry, 2015, 39, 4737-4744.	1.4	95
238	Green synthesis of fluorescent carbon nanoparticles from lychee (Litchi chinensis) plant. Korean Journal of Chemical Engineering, 2015, 32, 1707-1711.	1.2	17
239	Microporous Polymer Networks Made by Cyclotrimerization of Commercial, Aromatic Diisocyanates. ACS Macro Letters, 2015, 4, 1268-1272.	2.3	28
240	Recent development in exfoliated two-dimensional g-C₃N₄ nanosheets for photocatalytic applications. Journal of Materials Chemistry A, 2015, 3, 23642-23652.	5.2	377
241	Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and Photoconduction. ACS Nano, 2015, 9, 12480-12487.	7.3	251
242	Effect of processing temperature on structure and photocatalytic properties of g-C3N4. Applied Surface Science, 2015, 358, 278-286.	3.1	267
243	A Schiff-base-type vanadyl complex grafted on mesoporous carbon nitride: a new efficient catalyst for hydroxylation of benzene to phenol. RSC Advances, 2015, 5, 92526-92533.	1.7	19
244	Preparation of Self-Assembled Spherical g-C₃N₄/tz-Bi_{0.92}Gd_{0.08}VO₄ Heterojunctions and Their Mineralization Properties. ACS Applied Materials & Interfaces, 2015, 7, 23949-23957.	4.0	35
245	Selective silver ion adsorption onto mesoporous graphitic carbon nitride. Carbon, 2015, 95, 58-64.	5.4	36
246	A review on g-C3N4 for photocatalytic water splitting and CO2 reduction. Applied Surface Science, 2015, 358, 15-27.	3.1	684
247	Efficient visible-light photocatalytic hydrogen evolution and enhanced photostability of core@shell Cu2O@g-C3N4 octahedra. Applied Surface Science, 2015, 351, 1146-1154.	3.1	144
248	Synthesis of efficient photocatalysts for water oxidation and dye degradation reactions using CoCl₂ eutectics. Journal of Materials Chemistry A, 2015, 3, 21227-21232.	5.2	36
249	Cosolvent-free nanocasting synthesis of ordered mesoporous g-C₃N₄ and its remarkable photocatalytic activity for methyl orange degradation. RSC Advances, 2015, 5, 76963-76972.	1.7	31
250	Synthesis of ionic liquid-modified BiPO4 microspheres with hierarchical flower-like architectures and enhanced photocatalytic activity. RSC Advances, 2015, 5, 100625-100632.	1.7	20

#	Article	IF	Citations
251	Crystalline poly(triazine imide) based g-CN as an efficient electrocatalyst for counter electrodes of dye-sensitized solar cells using a triiodide/iodide redox electrolyte. Journal of Materials Chemistry A, 2015, 3, 24232-24236.	5.2	31
252	Vanadia supported on mesoporous carbon nitride as a highly efficient catalyst for hydroxylation of benzene to phenol. Catalysis Science and Technology, 2015, 5, 1504-1513.	2.1	65
253	Photocatalytic Hydrogen Evolution from Silicaâ€Templated Polymeric Graphitic Carbon Nitrideâ€"Is the Surface Area Important?. ChemCatChem, 2015, 7, 121-126.	1.8	57
254	Carbon nitride nanosheets decorated with WO3 nanorods: Ultrasonic-assisted facile synthesis and catalytic application in the green manufacture of dialdehydes. Applied Catalysis B: Environmental, 2015, 165, 511-518.	10.8	111
255	Template-free synthesis of porous graphitic carbon nitride microspheres for enhanced photocatalytic hydrogen generation with high stability. Applied Catalysis B: Environmental, 2015, 165, 503-510.	10.8	207
256	Nitrogenated graphene and carbon nanomaterials by carbonization of polyfurfuryl alcohol in the presence of urea and dicyandiamide. Green Chemistry, 2015, 17, 1032-1037.	4.6	17
257	Graphitic carbon nitride polymers: promising catalysts or catalyst supports for heterogeneous oxidation and hydrogenation. Green Chemistry, 2015, 17, 715-736.	4.6	262
258	On the heterostructured photocatalysts Ag3VO4/g-C3N4 with enhanced visible light photocatalytic activity. Applied Surface Science, 2015, 324, 324-331.	3.1	155
259	Polymerization of Room-Temperature Ionic Liquid Monomers by Electron Beam Irradiation with the Aim of Fabricating Three-Dimensional Micropolymer/Nanopolymer Structures. Langmuir, 2015, 31, 4281-4289.	1.6	33
260	Mesoporous carbon nitride grafted with n-bromobutane: a high-performance heterogeneous catalyst for the solvent-free cycloaddition of CO₂ to propylene carbonate. Catalysis Science and Technology, 2015, 5, 447-454.	2.1	120
261	Amplified fluorescent aptasensor through catalytic recycling for highly sensitive detection of ochratoxin A. Biosensors and Bioelectronics, 2015, 65, 16-22.	5.3	93
262	Biomimetic fabrication of g-C3N4/TiO2 nanosheets with enhanced photocatalytic activity toward organic pollutant degradation. Chemical Engineering Journal, 2015, 260, 117-125.	6.6	391
263	Soft Photocatalysis: Organic Polymers for Solar Fuel Production. Chemistry of Materials, 2016, 28, 5191-5204.	3.2	208
264	Synthesis of Twoâ€dimensional Microporous Carbonaceous Polymer Nanosheets and Their Application as Highâ€performance CO₂ Capture Sorbent. Chemistry - an Asian Journal, 2016, 11, 1849-1855.	1.7	11
265	Vanadium supported on graphitic carbon nitride as a heterogeneous catalyst for the direct oxidation of benzene to phenol. Chinese Journal of Catalysis, 2016, 37, 2003-2008.	6.9	21
266	Bifunctional Ag/C₃N_{4.5}composite nanobelts for photocatalysis and antibacterium. Nanotechnology, 2016, 27, 395603.	1.3	16
267	Highly efficient visible-light photocatalytic performance based on novel AgI/g-C3N4 composite photocatalysts. Chemical Physics Letters, 2016, 664, 167-172.	1.2	26
268	Flower-like Cobalt Hydroxide/Oxide on Graphitic Carbon Nitride for Visible-Light-Driven Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 35203-35212.	4.0	82

#	Article	IF	Citations
269	Controlled synthesis of graphitic carbon nitride and its catalytic properties in Knoevenagel condensations. Journal of Catalysis, 2016, 344, 293-302.	3.1	76
270	A sensitive electrogenerated chemiluminescence biosensor for galactosyltransferase activity analysis based on a graphitic carbon nitride nanosheet interface and polystyrene microsphere-enhanced responses. RSC Advances, 2016, 6, 32804-32810.	1.7	17
271	Graphitic carbon nitride (g-C 3 N 4) nanocomposites: A new and exciting generation of visible light driven photocatalysts for environmental pollution remediation. Applied Catalysis B: Environmental, 2016, 198, 347-377.	10.8	970
272	Enhancement of g-C 3 N 4 nanosheets photocatalysis by synergistic interaction of ZnS microsphere and RGO inducing multistep charge transfer. Applied Catalysis B: Environmental, 2016, 198, 200-210.	10.8	165
273	Influence of Si ion implantation on structure and morphology of g-C3N4. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 167-170.	0.6	0
274	A critical study of the generality of the two step two electron pathway for water splitting by application of a C₃N₄/MnO₂photocatalyst. Nanoscale, 2016, 8, 11956-11961.	2.8	56
275	Self-floating graphitic carbon nitride/zinc phthalocyanine nanofibers for photocatalytic degradation of contaminants. Journal of Hazardous Materials, 2016, 317, 17-26.	6.5	64
276	Graphitic Carbon Nitride (g-C₃N₄)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. Chemical Reviews, 2016, 116, 7159-7329.	23.0	5,505
277	Molten salt synthesis of water-dispersible polymeric carbon nitride nanoseaweeds and their application as luminescent probes. Carbon, 2016, 102, 477-486.	5.4	99
278	â€œDyedâ€•graphitic carbon nitride with greatly extended visible-light-responsive range for hydrogen evolution. Journal of Catalysis, 2016, 339, 93-101.	3.1	64
279	Photoreactivity and Mechanism of g-C₃N₄ and Ag Co-Modified Bi₂WO₆ Microsphere under Visible Light Irradiation. ACS Sustainable Chemistry and Engineering, 2016, 4, 3017-3023.	3.2	152
280	Tri-s-triazine-Based Crystalline Graphitic Carbon Nitrides for Highly Efficient Hydrogen Evolution Photocatalysis. ACS Catalysis, 2016, 6, 3921-3931.	5.5	756
281	Nitrogen-rich graphitic carbon nitride: Controllable nanosheet-like morphology, enhanced visible light absorption and superior photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 508, 257-264.	2.3	94
282	Highly sensitive cataluminescence gas sensors for 2-butanone based on g-C3N4 sheets decorated with CuO nanoparticles. Analytical and Bioanalytical Chemistry, 2016, 408, 8831-8841.	1.9	38
283	Electropolymerization as a new route to g-C3N4 coatings on TiO2 nanotubes for solar applications. RSC Advances, 2016, 6, 87314-87318.	1.7	10
284	Near-infrared emissive carbon dots for two-photon fluorescence bioimaging. Nanoscale, 2016, 8, 17350-17356.	2.8	243
285	Effect of Graphitic Carbon Nitride on the Electronic and Catalytic Properties of Ru Nanoparticles for Ammonia Synthesis. Catalysis Letters, 2016, 146, 2324-2329.	1.4	21
286	An â€œin-electrodeâ€•type immunosensing strategy for the detection of squamous cell carcinoma antigen based on electrochemiluminescent AuNPs/g-C 3 N 4 nanocomposites. Talanta, 2016, 160, 247-255.	2.9	27

#	Article	IF	Citations
287	g-C₃N₄ modified flower-like WO₃â€“Bi₂WO₆ microspheres with enhanced photoelectrocatalytic activity. New Journal of Chemistry, 2016, 40, 9638-9647.	1.4	33
288	N-Doped carbon dot with surface dominant non-linear optical properties. RSC Advances, 2016, 6, 95476-95482.	1.7	25
289	A highly efficient g-C₃N₄/SiO₂ heterojunction: the role of SiO₂ in the enhancement of visible light photocatalytic activity. Physical Chemistry Chemical Physics, 2016, 18, 31410-31418.	1.3	109
290	A facile one-step synthesis of ZnO quantum dots modified poly(triazine imide) nanosheets for enhanced hydrogen evolution under visible light. Chemical Communications, 2016, 52, 13020-13023.	2.2	26
291	Crystallinity Modulation of Layered Carbon Nitride for Enhanced Photocatalytic Activities. Chemistry - A European Journal, 2016, 22, 12449-12454.	1.7	66
292	Visible-light responsive plasmonic Ag₂O/Ag/g-C₃N₄ nanosheets with enhanced photocatalytic degradation of Rhodamine B. Journal of Materials Research, 2016, 31, 2252-2260.	1.2	51
293	Third-order nonlinear optical properties of carboxyl group dominant carbon nanodots. Journal of Materials Chemistry C, 2016, 4, 8490-8495.	2.7	28
294	Konjugierte Polymere: Katalysatoren fÃ¼r die photokatalytische Wasserstoffentwicklung. Angewandte Chemie, 2016, 128, 15940-15956.	1.6	110
295	Conjugated Polymers: Catalysts for Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2016, 55, 15712-15727.	7.2	703
296	Enhancing Performance of CdS Quantum Dot-Sensitized Solar Cells by Two-Dimensional g-C3N4 Modified TiO2 Nanorods. Nanoscale Research Letters, 2016, 11, 463.	3.1	35
297	Graphene-like Poly(triazine imide) as N₂-Selective Ultrathin Membrane for Postcombustion CO₂ Capture. Journal of Physical Chemistry C, 2016, 120, 28782-28788.	1.5	24
298	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. ChemSusChem, 2016, 9, 2723-2735.	3.6	96
299	Carbon nitride frameworks and dense crystalline polymorphs. Physical Review B, 2016, 94, .	1.1	51
300	Ag modified g-C3N4 composites with enhanced visible-light photocatalytic activity for diclofenac degradation. Journal of Molecular Catalysis A, 2016, 423, 270-276.	4.8	152
301	Air activation by a metal-free photocatalyst for â€œtotally-greenâ€• hydrocarbon selective oxidation. Catalysis Science and Technology, 2016, 6, 7252-7258.	2.1	32
302	Fabrication of highly active Melem/Zn0.25Cd0.75S composites for the degradation of bisphenol A and methyl orange under visible light irradiation. Applied Surface Science, 2016, 387, 513-520.	3.1	8
303	Surface hydroxylation of graphitic carbon nitride: Enhanced visible light photocatalytic activity. Materials Research Bulletin, 2016, 84, 46-56.	2.7	38
304	A sensitive and selective sensing platform based on CdTe QDs in the presence of l -cysteine for detection of silver, mercury and copper ions in water and various drinks. Food Chemistry, 2016, 213, 306-312.	4.2	136

#	Article	IF	Citations
305	Solving the Hydrogen and Lithium Substructure of Poly(triazine imide)/LiCl Using NMR Crystallography. Chemistry - A European Journal, 2016, 22, 16878-16890.	1.7	54
306	Metal-free half-metallicity in a high energy phase C-doped gh-C₃N₄ system: a high Curie temperature planar system. Journal of Materials Chemistry C, 2016, 4, 11530-11539.	2.7	32
307	Split photoelectrochemistry for the immunoassay of Î±-fetoprotein based on graphitic carbon nitride. Journal of Electroanalytical Chemistry, 2016, 783, 226-232.	1.9	13
308	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. Electrochimica Acta, 2016, 222, 44-57.	2.6	97
309	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. Environmental Science & Technology, 2016, 50, 12938-12948.	4.6	261
310	Facile alkali-assisted synthesis of g-C₃N₄ materials and their high-performance catalytic application in solvent-free cycloaddition of CO₂ to epoxides. RSC Advances, 2016, 6, 55382-55392.	1.7	49
311	Processable Dispersions of Graphitic Carbon Nitride Based Nanohybrids and Application in Polymer Nanocomposites. Industrial & Engineering Chemistry Research, 2016, 55, 7646-7654.	1.8	26
312	How does the B,F-monodoping and B/F-codoping affect the photocatalytic water-splitting performance of g-C₃N₄?. Physical Chemistry Chemical Physics, 2016, 18, 19217-19226.	1.3	99
313	Fe-species-loaded graphitic carbon nitride with enhanced photocatalytic performance under visible-light irradiation. Journal of Molecular Catalysis A, 2016, 420, 159-166.	4.8	18
314	Ultrasensitive and visual detection of squamous cell carcinoma antigen based on a silver-enhanced sandwich immunoassay using AuNPs@g-C3N4 nanocomposites. Sensors and Actuators B: Chemical, 2016, 235, 670-677.	4.0	11
315	Observation of the superstructural diffraction peak in the nitrogen doped carbon nanotubes: Simulation of the structure. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 520-530.	1.0	22
316	Engineering the electronic structure and optical properties of g-C₃N₄ by non-metal ion doping. Journal of Materials Chemistry C, 2016, 4, 6839-6847.	2.7	120
317	Fabrication of Z-scheme g -C 3 N 4 /RGO/Bi 2 WO 6 photocatalyst with enhanced visible-light photocatalytic activity. Chemical Engineering Journal, 2016, 290, 136-146.	6.6	314
318	CdS nanoparticles/CeO2 nanorods composite with high-efficiency visible-light-driven photocatalytic activity. Applied Surface Science, 2016, 363, 154-160.	3.1	94
319	Direct microwave synthesis of graphitic C3N4 with improved visible-light photocatalytic activity. Ceramics International, 2016, 42, 4063-4071.	2.3	34
320	Visible Photocatalytic Water Splitting and Photocatalytic Two-Electron Oxygen Formation over Cu- and Fe-Doped g-C₃N₄. Journal of Physical Chemistry C, 2016, 120, 56-63.	1.5	251
321	Graphitic carbon nitride based hydrogen treated disordered titanium dioxide core-shell nanocatalyst for enhanced photocatalytic and photoelectrochemical performance. International Journal of Hydrogen Energy, 2016, 41, 5617-5628.	3.8	37
322	2D or not 2Dâ€Layered Functional (C, N) Materials â€œBeyond Silicon and Grapheneâ€. Macromolecular Chemistry and Physics, 2016, 217, 232-241.	1.1	15

#	Article	IF	Citations
323	Highly efficient hydrogen evolution over Co(OH)2 nanoparticles modified g-C3N4 co-sensitized by Eosin Y and Rose Bengal under Visible Light Irradiation. Applied Catalysis B: Environmental, 2016, 188, 56-64.	10.8	150
324	Magnetic graphitic carbon nitride anion exchanger for specific enrichment of phosphopeptides. Journal of Chromatography A, 2016, 1437, 137-144.	1.8	39
325	Dual synergetic effects in MoS 2 /pyridine-modified g-C 3 N 4 composite for highly active and stable photocatalytic hydrogen evolution under visible light. Applied Catalysis B: Environmental, 2016, 190, 36-43.	10.8	133
326	MnSe-loaded g-C 3 N 4 nanocomposite with synergistic peroxidase-like catalysis: Synthesis and application toward colorimetric biosensing of H 2 O 2 and glucose. Sensors and Actuators B: Chemical, 2016, 229, 379-386.	4.0	86
327	In situ ion-exchange synthesis of SnS₂/g-C₃N₄ nanosheets heterojunction for enhancing photocatalytic activity. RSC Advances, 2016, 6, 10802-10809.	1.7	85
328	One-step preparation of disposable multi-functionalized g-C3N4 based electrochemiluminescence immunosensor for the detection of CA125. Sensors and Actuators B: Chemical, 2016, 226, 62-68.	4.0	78
329	In situ growth of Ag/Ag₂O nanoparticles on g-C₃N₄ by a natural carbon nanodot-assisted green method for synergistic photocatalytic activity. RSC Advances, 2016, 6, 3186-3197.	1.7	29
330	Template-free synthesis of porous graphitic carbon nitride/carbon composite spheres for electrocatalytic oxygen reduction reaction. Chemical Communications, 2016, 52, 1725-1728.	2.2	93
331	Flux-mediated doping of SrTiO₃ photocatalysts for efficient overall water splitting. Journal of Materials Chemistry A, 2016, 4, 3027-3033.	5.2	224
332	One-step hydrothermal synthesis of photoluminescent carbon nitride dots derived from ionic liquids. New Journal of Chemistry, 2016, 40, 320-324.	1.4	30
333	Solâ€"gel carbons from ionothermal syntheses. Journal of Sol-Gel Science and Technology, 2017, 81, 52-58.	1.1	10
334	Design of Cu-Cu 2 O/g-C 3 N 4 nanocomponent photocatalysts for hydrogen evolution under visible light irradiation using water-soluble Erythrosin B dye sensitization. Applied Surface Science, 2017, 391, 404-414.	3.1	195
335	A review on g-C 3 N 4 -based photocatalysts. Applied Surface Science, 2017, 391, 72-123.	3.1	2,318
336	An Efficient, Visible Light Driven, Selective Oxidation of Aromatic Alcohols and Amines with O₂ Using BiVO₄/g-C₃N₄ Nanocomposite: A Systematic and Comprehensive Study toward the Development of a Photocatalytic Process. ACS Sustainable Chemistry and Engineering, 2017, 5, 2562-2577.	3.2	172
337	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. Advanced Functional Materials, 2017, 27, 1605785.	7.8	249
338	Enhancing the photodegradation of charged pollutants under visible light in Ag2O/g-C3N4 catalyst by Coulombic interaction. Journal of Materials Science, 2017, 52, 5147-5154.	1.7	16
339	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO₂/g-C₃N₄, PAMAM Dendrimer, and Alkaline Phosphatase. Analytical Chemistry, 2017, 89, 2369-2376.	3.2	153
340	Coupling polymorphic nanostructured carbon nitrides into an isotype heterojunction with boosted photocatalytic H₂ evolution. Chemical Communications, 2017, 53, 2978-2981.	2.2	80

#	Article	IF	Citations
341	One-step exfoliation and fluorination of g-C₃N₄ nanosheets with enhanced photocatalytic activities. New Journal of Chemistry, 2017, 41, 3061-3067.	1.4	49
342	Enhanced debromination and degradation of 2,4-dibromophenol by an Z-scheme Bi 2 MoO 6 /CNTs/ g -C 3 N 4 visible light photocatalyst. Chemical Engineering Journal, 2017, 316, 461-470.	6.6	115
343	First principle investigation of halogen-doped monolayer g-C3N4 photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	10.8	422
344	Enhancing visible light photocatalytic activity of nitrogen-deficient g-C3N4 via thermal polymerization of acetic acid-treated melamine. Journal of Colloid and Interface Science, 2017, 495, 27-36.	5.0	123
345	Triâ€sâ€triazineâ€Based Crystalline Carbon Nitride Nanosheets for an Improved Hydrogen Evolution. Advanced Materials, 2017, 29, 1700008.	11.1	541
346	Resonance energy transfer based electrochemiluminescence and fluorescence sensing of riboflavin using graphitic carbon nitride quantum dots. Analytica Chimica Acta, 2017, 973, 34-42.	2.6	52
347	N,S co-doped carbon dots as a stable bio-imaging probe for detection of intracellular temperature and tetracycline. Journal of Materials Chemistry B, 2017, 5, 3293-3299.	2.9	117
348	The Performance of Nanoparticulate Graphitic Carbon Nitride as an Amphiphile. Journal of the American Chemical Society, 2017, 139, 6026-6029.	6.6	130
349	Synthesis of Layered Carbonitrides from Biotic Molecules for Photoredox Transformations. Angewandte Chemie, 2017, 129, 6727-6731.	1.6	51
350	Synthesis, characterization and application of nitrogenâ€"sulfur-doped carbon spheres as an efficient catalyst for the preparation of novel Î±-aminophosphonates. Journal of the Iranian Chemical Society, 2017, 14, 1971-1982.	1.2	9
351	2D-2D MnO2/g-C3N4 heterojunction photocatalyst: In-situ synthesis and enhanced CO2 reduction activity. Carbon, 2017, 120, 23-31.	5.4	227
352	Carbon nitride as efficient catalyst for chemical fixation of CO2 into chloropropene carbonate: Promotion effect of Cl in epichlorohydrin. Molecular Catalysis, 2017, 436, 228-236.	1.0	37
353	Synthesis of Layered Carbonitrides from Biotic Molecules for Photoredox Transformations. Angewandte Chemie - International Edition, 2017, 56, 6627-6631.	7.2	173
354	Photocatalytic selective oxidation of biomass-derived 5-hydroxymethylfurfural to 2,5-diformylfuran on metal-free g-C3N4 under visible light irradiation. Molecular Catalysis, 2017, 436, 10-18.	1.0	87
355	Graphitic carbon nitride quantum dots in situ coupling to Bi 2 MoO 6 nanohybrids with enhanced charge transfer performance and photoelectrochemical detection of copper ion. Journal of Electroanalytical Chemistry, 2017, 787, 66-71.	1.9	39
356	Hydrothermal synthesis of an artificial Z-scheme visible light photocatalytic system using reduced graphene oxide as the electron mediator. Chemical Engineering Journal, 2017, 313, 1567-1576.	6.6	87
357	Photoluminescence of carbon dots and their applications in Hela cell imaging and Fe3+ ion detection. Journal of Materials Science, 2017, 52, 9979-9989.	1.7	32
358	Graphitic carbon nitride supported platinum nanocomposites for rapid and sensitive colorimetric detection of mercury ions. Analytica Chimica Acta, 2017, 980, 72-78.	2.6	47

#	Article	IF	Citations
359	Photocatalytic overall water splitting by conjugated semiconductors with crystalline poly(triazine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.7	186
360	Functional carbon nitride materials â€" design strategies for electrochemical devices. Nature Reviews Materials, 2017, 2, .	23.3	768
361	A multianalyte fluorescent carbon dots sensing system constructed based on specific recognition of Fe(<scp>iii</scp>) ions. RSC Advances, 2017, 7, 28637-28646.	1.7	84
362	Carbon nitrides: synthesis and characterization of a new class of functional materials. Physical Chemistry Chemical Physics, 2017, 19, 15613-15638.	1.3	339
363	Polymeric carbon nitride for solar hydrogen production. Chemical Communications, 2017, 53, 7438-7446.	2.2	42
364	Graphitic Carbon Nitride Isotype Heterostructures with Enhanced Visible Photocatalytic Properties. Nano, 2017, 12, 1750042.	0.5	6
365	Novel graphite-like carbon nitride/organic aluminum diethylhypophosphites nanohybrid: Preparation and enhancement on thermal stability and flame retardancy of polystyrene. Composites Part A: Applied Science and Manufacturing, 2017, 99, 149-156.	3.8	42
366	Novel Z-Scheme g-C 3 N 4 /C@Bi 2 MoO 6 composite with enhanced visible-light photocatalytic activity for Î²-naphthol degradation. Separation and Purification Technology, 2017, 183, 54-65.	3.9	67
367	Photoelectrode nanomaterials for photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2017, 42, 11078-11109.	3.8	129
368	Preparation and characterization of ternary magnetic g-C 3 N 4 composite photocatalysts for removal of tetracycline under visible light. Chinese Journal of Catalysis, 2017, 38, 447-457.	6.9	25
369	Lasing behavior of surface functionalized carbon quantum dot/RhB composites. Nanoscale, 2017, 9, 5049-5054.	2.8	21
370	Graphitic carbon nitride/phosphorus-rich aluminum phosphinates hybrids as smoke suppressants and flame retardants for polystyrene. Journal of Hazardous Materials, 2017, 332, 87-96.	6.5	179
371	Simple preparation of MgO/g-C3N4 catalyst and its application for catalytic synthesis of dimethyl carbonate via transesterification. Catalysis Communications, 2017, 95, 72-76.	1.6	31
372	Graphitic carbon nitride: Synthesis, characterization and photocatalytic decomposition of nitrous oxide. Materials Chemistry and Physics, 2017, 193, 438-446.	2.0	114
373	Determination of Crystal Structure of Graphitic Carbon Nitride: Ab Initio Evolutionary Search and Experimental Validation. Chemistry of Materials, 2017, 29, 2694-2707.	3.2	83
374	Novel magnetic BaFe12O19/g-C3N4 composites with enhanced thermocatalytic and photo-Fenton activity under visible-light. Journal of Alloys and Compounds, 2017, 710, 510-518.	2.8	63
375	A new precursor to synthesize g-C₃N₄ with superior visible light absorption for photocatalytic application. Catalysis Science and Technology, 2017, 7, 1826-1830.	2.1	35
376	Visible and near infrared light active photocatalysis based on conjugated polymers. Journal of Industrial and Engineering Chemistry, 2017, 51, 27-43.	2.9	73

#	Article	IF	Citations
377	A facile and novel construction of attapulgite/Cu2O/Cu/g-C3N4 with enhanced photocatalytic activity for antibiotic degradation. Ceramics International, 2017, 43, 3324-3329.	2.3	70
378	Artificial Photosynthetic Z-scheme Photocatalyst for Hydrogen Evolution with High Quantum Efficiency. Journal of Physical Chemistry C, 2017, 121, 107-114.	1.5	67
379	A 2D-g-C3N4 nanosheet as an eco-friendly adsorbent for various environmental pollutants in water. Chemosphere, 2017, 171, 192-201.	4.2	124
380	Simple synthesis of oxygen functional layered carbon nitride with near-infrared light photocatalytic activity. Catalysis Communications, 2017, 91, 21-24.	1.6	8
381	Covalent Cross-Linking of Porous Poly(ionic liquid) Membrane via a Triazine Network. ACS Macro Letters, 2017, 6, 1-5.	2.3	29
382	Distorted Carbon Nitride Structure with Substituted Benzene Moieties for Enhanced Visible Light Photocatalytic Activities. ACS Applied Materials & Interfaces, 2017, 9, 40360-40368.	4.0	80
383	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. Angewandte Chemie - International Edition, 2017, 56, 13445-13449.	7.2	536
384	Synthesis, properties, and application of polymeric carbon nitrides. Russian Chemical Bulletin, 2017, 66, 782-807.	0.4	7
385	Graphitic carbon nitride (g-C‹sub›3‹/sub›N‹sub›4‹/sub›)-based photocatalysts for solar hydrogen generation: recent advances and future development directions. Journal of Materials Chemistry A, 2017, 5, 23406-23433.	5.2	472
386	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. Nanoscale, 2017, 9, 16586-16590.	2.8	20
387	Palladium-nitrogen coordinated cobalt alloy towards hydrogen oxidation and oxygen reduction reactions with high catalytic activity in renewable energy generations of proton exchange membrane fuel cell. Applied Energy, 2017, 208, 37-48.	5.1	31
388	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. Angewandte Chemie, 2017, 129, 13630-13634.	1.6	135
389	Molecularly dispersed nickel-containing species on the carbon nitride network as electrocatalysts for the oxygen evolution reaction. Carbon, 2017, 124, 180-187.	5.4	55
390	One-step synthesis of CoO/g-C‹sub›3‹/sub›N‹sub›4‹/sub› composites by thermal decomposition for overall water splitting without sacrificial reagents. Inorganic Chemistry Frontiers, 2017, 4, 1691-1696.	3.0	53
391	Simulation-guided synthesis of graphitic carbon nitride beads with 3D interconnected and continuous meso/macropore channels for enhanced light absorption and photocatalytic performance. Journal of Materials Chemistry A, 2017, 5, 21300-21312.	5.2	63
392	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.	1.5	64
393	New complete assignment of X-ray powder diffraction patterns in graphitic carbon nitride using discrete Fourier transform and direct experimental evidence. Physical Chemistry Chemical Physics, 2017, 19, 26072-26084.	1.3	69
394	An efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiations. Scientific Reports, 2017, 7, 9898.	1.6	17

#	Article	IF	Citations
395	Enhanced room-temperature ferromagnetic properties in ultrathin two-dimensional metal-free poly(triazine imide) nanosheets. Carbon, 2017, 124, 486-491.	5.4	5
396	Confined Catalysis in the g-C₃N₄/Pt(111) Interface: Feasible Molecule Intercalation, Tunable Moleculeâ€"Metal Interaction, and Enhanced Reaction Activity of CO Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 33267-33273.	4.0	40
397	Fabrication of ZnO/g-C₃N₄ nanocomposites for enhanced visible light driven photocatalytic activity. Materials Research Express, 2017, 4, 075037.	0.8	52
398	Metal-organic hybrid: Photoreduction of CO2 using graphitic carbon nitride supported heteroleptic iridium complex under visible light irradiation. Carbon, 2017, 123, 371-379.	5.4	74
399	Fabrication of Bi modified Bi 2 S 3 pillared g-C 3 N 4 photocatalyst and its efficient photocatalytic reduction and oxidation performances. Applied Surface Science, 2017, 426, 427-436.	3.1	76
400	Synergistic immobilization of UO22+ by novel graphitic carbon nitride @ layered double hydroxide nanocomposites from wastewater. Chemical Engineering Journal, 2017, 330, 573-584.	6.6	129
401	Probing Ï€-Ï€ stacking modulation of g-C3N4/graphene heterojunctions and corresponding role of graphene on photocatalytic activity. Journal of Colloid and Interface Science, 2017, 508, 274-281.	5.0	67
402	A nitrogen rich polymer as an organo-catalyst for cycloaddition of CO₂to epoxides and its application for the synthesis of polyurethane. Sustainable Energy and Fuels, 2017, 1, 1620-1629.	2.5	49
403	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2017, 5, 19062-19071.	5.2	43
404	A Benchmark Quantum Yield for Water Photoreduction on Amorphous Carbon Nitride. Advanced Functional Materials, 2017, 27, 1702384.	7.8	115
405	Experimental studies on photocatalytic reduction of CO 2 using AgBr decorated g-C 3 N 4 composite in TEA mediated system. Journal of CO2 Utilization, 2017, 22, 250-261.	3.3	27
406	Simultaneous photodegradation of multi-herbicides by oxidized carbon nitride: performance and practical application. Applied Catalysis B: Environmental, 2017, 219, 194-199.	10.8	45
407	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	4.5	76
408	Effect of Cu(I)â€"N Active Sites on the N₂ Photofixation Ability over Flowerlike Copper-Doped g-C₃N₄ Prepared via a Novel Molten Salt-Assisted Microwave Process: The Experimental and Density Functional Theory Simulation Analysis. ACS Sustainable Chemistry and Engineering, 2017, 5, 6863-6872.	3.2	86
409	Nitrogen doped carbon nanotubes and nanofibers: Composition, structure, electrical conductivity and capacity properties. Carbon, 2017, 122, 475-483.	5.4	82
410	Mesoporous carbon nitrides: synthesis, functionalization, and applications. Chemical Society Reviews, 2017, 46, 72-101.	18.7	534
411	Fabrication and photoelectrochemical properties of silicon nanowires/g-C3N4 core/shell arrays. Applied Surface Science, 2017, 396, 609-615.	3.1	45
412	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.	10.8	312

#	Article	IF	Citations
413	Nearâ€Ultraviolet Fluorescent â€œONâ€OFFâ€ONâ€•Switching Sensors Based on Nitrogenâ€Enriched Dualâ€Color Singleâ€Functional Polymer Carbon Nanosheets. Chemistry - A European Journal, 2017, 23, 665-675.	1.7	29
414	Connecting carbon porosity with dispersibility and friability. Carbon, 2017, 112, 117-129.	5.4	7
415	A comparison of graphitic carbon nitrides synthesized from different precursors through pyrolysis. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 32-44.	2.0	124
416	Investigation for the effects of ball milling process on the physical characteristics, the behaviors of carriers and the photocatalytic activity of sulfur doped g-C3N4. International Journal of Hydrogen Energy, 2017, 42, 5485-5495.	3.8	25
417	A â€œturn-offâ€•fluorescent biosensor for the detection of mercury (II) based on graphite carbon nitride. Talanta, 2017, 162, 46-51.	2.9	64
418	The selectivity of the carboxylate groups terminated carbon dots switched by buffer solutions for the detection of multi-metal ions. Sensors and Actuators B: Chemical, 2017, 240, 941-948.	4.0	78
419	Photocatalytic activity of modified g-C 3 N 4 /TiO 2 nanocomposites for NOx removal. Catalysis Today, 2017, 280, 37-44.	2.2	94
420	A comparison study of alkali metal-doped g-C3N4 for visible-light photocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2017, 38, 1981-1989.	6.9	244
421	Graphitic C_3N_4 as a new saturable absorber for the mid-infrared spectral range. Optics Letters, 2017, 42, 286.	1.7	34
422	Simultaneous Quantitation of Caffeic Acid and Ferulic Acid Based on Graphite-like C3N4/chitosan Modified Film. International Journal of Electrochemical Science, 2017, , 8504-8515.	0.5	5
423	Crystalline carbon nitride semiconductors prepared at different temperatures for photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2018, 231, 234-241.	10.8	227
424	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. Chemical Society Reviews, 2018, 47, 2298-2321.	18.7	488
425	Highly Crystalline Carbon Nitride Nanosheets for Ultrahigh Photocatalytic Hydrogen Evolution. ChemPhotoChem, 2018, 2, 490-497.	1.5	15
426	Effect of Interface Contact Between C and C3N4 on Photocatalytic Water Splitting. Catalysis Letters, 2018, 148, 1435-1444.	1.4	5
427	ZnCr-LDH/N-doped graphitic carbon-incorporated g-C3N4 2D/2D nanosheet heterojunction with enhanced charge transfer for photocatalysis. Materials Research Bulletin, 2018, 102, 379-390.	2.7	58
428	Multiplexed ratiometric photoluminescent detection of pyrophosphate using anisotropic boron-doped nitrogen-rich carbon rugby ball-like nanodots. Journal of Materials Chemistry B, 2018, 6, 1771-1781.	2.9	23
429	Mechanistic insights into 4-nitrophenol degradation and benzyl alcohol oxidation pathways over MgO/g-C₃N₄ model catalyst systems. Catalysis Science and Technology, 2018, 8, 2825-2834.	2.1	44
430	Chapter 2. Theoretical Design of PEC Materials. RSC Energy and Environment Series, 2018, , 29-61.	0.2	1

#	Article	IF	Citations
431	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. National Science Review, 2018, 5, 642-652.	4.6	132
432	Oxidation behavior of Si3N4 fibers derived from polycarbosilane. Corrosion Science, 2018, 136, 9-17.	3.0	22
433	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. Angewandte Chemie, 2018, 130, 6964-6968.	1.6	27
434	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. Angewandte Chemie - International Edition, 2018, 57, 6848-6852.	7.2	53
436	Multicationic Sr4Mn3O10 mesostructures: molten salt synthesis, analytical electron microscopy study and reactivity. Materials Horizons, 2018, 5, 480-485.	6.4	5
437	Graphitic carbon subnitride: Synthesis, structure, electron and proton transport, photoluminescence and thermoelectric properties. Materials Chemistry and Physics, 2018, 209, 95-106.	2.0	1
438	Fe(III)-Doped g-C₃N₄ Mediated Peroxymonosulfate Activation for Selective Degradation of Phenolic Compounds via High-Valent Iron-Oxo Species. Environmental Science & Technology, 2018, 52, 2197-2205.	4.6	687
439	Fabrication and Photocatalytic Application of Aromatic Ring Functionalized Melem Oligomers. Journal of Physical Chemistry C, 2018, 122, 3506-3512.	1.5	16
440	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. Applied Catalysis B: Environmental, 2018, 229, 121-129.	10.8	171
441	Multiaspect insight into synergetic modification of carbon nitride with halide salt and water vapor. Applied Catalysis B: Environmental, 2018, 229, 204-210.	10.8	18
442	2D Heterostructure Membranes with Sunlightâ€Driven Selfâ€Cleaning Ability for Highly Efficient Oilâ€"Water Separation. Advanced Functional Materials, 2018, 28, 1706545.	7.8	182
443	Graphitic Carbon Nitride as a Distinct Solid Stabilizer for Emulsion Polymerization. Chemistry - A European Journal, 2018, 24, 2286-2291.	1.7	36
444	Enhanced Solar Light Absorption and Photoelectrochemical Conversion Using TiN Nanoparticle-Incorporated C₃N₄â€"C Dot Sheets. ACS Applied Materials & Interfaces, 2018, 10, 2460-2468.	4.0	64
445	Fluorescence sensor based on glutathione capped CdTe QDs for detection of Cr 3+ ions in vitamins. Food Science and Human Wellness, 2018, 7, 71-76.	2.2	18
446	Structuring phase junction between tri-s-triazine and triazine crystalline C3N4 for efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 227, 153-160.	10.8	139
447	Graphitic carbon nitride nanosheets as highly efficient photocatalysts for phenol degradation under high-power visible LED irradiation. Materials Research Bulletin, 2018, 100, 322-332.	2.7	75
448	Carbon nanotubes-modified graphitic carbon nitride photocatalysts with synergistic effect of nickel(II) sulfide and molybdenum(II) disulfide co-catalysts for more efficient H2 evolution. Journal of Colloid and Interface Science, 2018, 526, 374-383.	5.0	31
449	Mesoporous g-C3N4 nanosheets prepared by calcining a novel supramolecular precursor for high-efficiency photocatalytic hydrogen evolution. Applied Surface Science, 2018, 450, 46-56.	3.1	91

#	Article	IF	Citations
450	Visible-light-driven dynamic cancer therapy and imaging using graphitic carbon nitride nanoparticles. Materials Science and Engineering C, 2018, 90, 531-538.	3.8	20
451	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.	4.3	46
452	Moisture stable Ni-Zn MOF/g-C3N4 nanoflowers: A highly efficient adsorbent for solid-phase microextraction of PAHs. Journal of Chromatography A, 2018, 1556, 37-46.	1.8	66
453	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.	1.4	24
454	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.	2.0	34
455	An ultrasensitive electrochemiluminescent immunosensor based on graphene oxide coupled graphite-like carbon nitride and multiwalled carbon nanotubes-gold for the detection of diclofenac. Biosensors and Bioelectronics, 2018, 101, 260-267.	5.3	62
456	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.	3.1	33
457	Direct catalytic hydroxylation of benzene to phenol catalyzed by vanadia supported on exfoliated graphitic carbon nitride. Applied Catalysis A: General, 2018, 549, 31-39.	2.2	40
458	Silver/Silver(II) oxide (Ag/AgO) loaded graphitic carbon nitride microspheres: An effective visible light active photocatalyst for degradation of acidic dyes and bacterial inactivation. Applied Catalysis B: Environmental, 2018, 221, 339-348.	10.8	126
459	Unexpected ground-state structures and properties of carbon nitride C3N at ambient and high pressures. Materials and Design, 2018, 140, 45-53.	3.3	3
460	Photocatalytic degradation of organic contaminants by g-C3N4/EPDM nanocomposite film: Viable, efficient and facile recoverable. Materials Science and Engineering C, 2018, 84, 188-194.	3.8	9
461	A nanosheet-like Î±-Bi2O3/g-C3N4 heterostructure modified by plasmonic metallic Bi and oxygen vacancies with high photodegradation activity of organic pollutants. Separation and Purification Technology, 2018, 193, 232-241.	3.9	117
462	First principles investigation of the electronic properties of graphitic carbon nitride with different building block and sheet staggered arrangement. Journal of Alloys and Compounds, 2018, 735, 131-139.	2.8	40
463	Visible light-driven superoxide generation by conjugated polymers for organic synthesis. Nano Research, 2018, 11, 1099-1108.	5.8	16
465	Electro - copolymerization of symmetric flower-like Luminol - Aniline - Hollow TiO2-NH2 nano-shell polymer in ionic liquid for Acetochlor detection. International Journal of Electrochemical Science, 2018, 13, 4182-4197.	0.5	4
466	Enhanced Z-scheme photocatalytic activity of a Ï€-conjugated heterojunction: MIL-53(Fe)/Ag/g-C₃N₄. New Journal of Chemistry, 2018, 42, 18598-18607.	1.4	35
467	Ordered Mesoporous C₃N₅ with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). Angewandte Chemie, 2018, 130, 17381-17386.	1.6	64
468	Ordered Mesoporous C₃N₅ with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). Angewandte Chemie - International Edition, 2018, 57, 17135-17140.	7.2	155

#	Article	IF	Citations
469	Molecular Doping of Electrochemically Prepared Triazine-Based Carbon Nitride by 2,4,6-Triaminopyrimidine for Improved Photocatalytic Properties. ACS Omega, 2018, 3, 17042-17048.	1.6	20
470	Comprehensive insight into the support effect of graphitic carbon nitride for zinc halides on the catalytic transformation of CO₂into cyclic carbonates. Catalysis Science and Technology, 2018, 8, 5582-5593.	2.1	40
471	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.	2.4	15
472	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. Journal of Physical Chemistry C, 2018, 122, 25183-25194.	1.5	64
473	Pressureâ€Tuneable Visibleâ€Range Band Gap in the Ionic Spinel Tin Nitride. Angewandte Chemie, 2018, 130, 11797-11802.	1.6	3
474	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. Chemical Society Reviews, 2018, 47, 7783-7817.	18.7	238
475	The electronic and optical properties of carbon nitride derivatives: A first principles study. Applied Surface Science, 2018, 453, 442-448.	3.1	28
476	Nitrile chain reactions for cyano-based ionic liquid derived mesoporous carbon as efficient bifunctional electrocatalyst. Electrochimica Acta, 2018, 280, 258-265.	2.6	9
477	Effective Determination of Zn²⁺, Mn²⁺, and Cu²⁺ Simultaneously By Using Dualâ€Emissive Carbon Dots as Colorimetric Fluorescent Probe. European Journal of Inorganic Chemistry, 2018, 2018, 3418-3426.	1.0	24
478	Synthesis of band gap-tunable alkali metal modified graphitic carbon nitride with outstanding photocatalytic H 2 O 2 production ability via molten salt method. Journal of Materials Science and Technology, 2018, 34, 1932-1938.	5.6	56
479	Molten salt assisted in-situ synthesis of TiO2/g-C3N4 composites with enhanced visible-light-driven photocatalytic activity and adsorption ability. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 362, 1-13.	2.0	51
480	Ionothermal Synthesis of Triazineâ€"Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60â€‰% at 420â€…nm for Solar Hydrogen Production from â€œSea Waterâ€. Angewandte Chemie - International Edition, 2018, 57, 9372-9376.	7.2	369
481	Nanoscale Probing of Local Hydrogen Heterogeneity in Disordered Carbon Nitrides with Vibrational Electron Energy-Loss Spectroscopy. ACS Nano, 2018, 12, 5463-5472.	7.3	42
482	High-performance NiO/g-C₃N₄ composites for visible-light-driven photocatalytic overall water splitting. Inorganic Chemistry Frontiers, 2018, 5, 1646-1652.	3.0	92
483	Liâ€"Ionâ€Conducting Pillarâ€Like Graphitic Carbon Nitrides as Novel Anodes for Liâ€"Ion Batteries. ChemistrySelect, 2018, 3, 5364-5376.	0.7	7
484	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. Carbon, 2018, 138, 69-75.	5.4	20
485	Ni, Pd, and Pt-embedded graphitic carbon nitrides as excellent adsorbents for HCN removal: A DFT study. Applied Surface Science, 2018, 456, 882-889.	3.1	38
486	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.	2.1	32

#	Article	IF	Citations
487	Mechanical behaviors and electronic characteristics on two-dimensional C2N3 and C2N3H: First principles calculations. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 252-263.	1.3	14
488	Chemical vs thermal exfoliation of g-C3N4 for NOx removal under visible light irradiation. Applied Catalysis B: Environmental, 2018, 239, 16-26.	10.8	185
489	Potential-resolved Faraday cage-type electrochemiluminescence biosensor for simultaneous determination of miRNAs using functionalized g-C3N4 and metal organic framework nanosheets. Biosensors and Bioelectronics, 2018, 118, 247-252.	5.3	60
490	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.	3.8	68
491	Graphitic carbon nitride prepared from urea as a photocatalyst for visible-light carbon dioxide reduction with the aid of a mononuclear ruthenium(II) complex. Beilstein Journal of Organic Chemistry, 2018, 14, 1806-1812.	1.3	38
492	Synthesis of a g-C3N4-Cu2O heterojunction with enhanced visible light photocatalytic activity by PEG. Journal of Colloid and Interface Science, 2018, 531, 28-36.	5.0	48
493	An Electrochemical Sensor of Poly(EDOT-pyridine-EDOT)/Graphitic Carbon Nitride Composite for Simultaneous Detection of Cd2+ and Pb2+. Materials, 2018, 11, 702.	1.3	31
494	Pressureâ€Tuneable Visibleâ€Range Band Gap in the Ionic Spinel Tin Nitride. Angewandte Chemie - International Edition, 2018, 57, 11623-11628.	7.2	22
495	â€œTwo channelâ€•photocatalytic hydrogen peroxide production using g-C₃N₄ coated CuO nanorod heterojunction catalysts prepared via a novel molten salt-assisted microwave process. New Journal of Chemistry, 2018, 42, 13529-13535.	1.4	38
496	Confining the polymerization degree of graphitic carbon nitride in porous zeolite-Y and its luminescence. RSC Advances, 2018, 8, 25057-25064.	1.7	10
497	Review on fabrication of graphitic carbon nitride based efficient nanocomposites for photodegradation of aqueous phase organic pollutants. Journal of Industrial and Engineering Chemistry, 2018, 67, 28-51.	2.9	302
498	Self assembly and controlled drug release of a nano-laminated graphite carbon nitride/methotrexate complex. Journal of Materials Science: Materials in Medicine, 2018, 29, 116.	1.7	8
499	Facile synthesis of nitrogen deficient g-C 3 N 4 by copolymerization of urea and formamide for efficient photocatalytic hydrogen evolution. Molecular Catalysis, 2018, 453, 85-92.	1.0	51
500	Excitation-dependent carbon dots powders based on dehydration condensation by microwaveâ€“hydrothermal method. Journal of Materials Science, 2018, 53, 15907-15914.	1.7	24
501	Ground-state structures, physical properties and phase diagram of carbon-rich nitride C₅N. Journal of Physics Condensed Matter, 2018, 30, 385402.	0.7	9
502	One-Pot Fabrication of Perforated Graphitic Carbon Nitride Nanosheets Decorated with Copper Oxide by Controlled Ammonia and Sulfur Trioxide Release for Enhanced Catalytic Activity. ACS Omega, 2018, 3, 9318-9332.	1.6	29
503	Ionothermal Synthesis of Triazineâ€“Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60â€‰% at 420â€…nm for Solar Hydrogen Production from â€œSea Waterâ€• Angewandte Chemie, 2018, 130, 9516-9520.	1.6	73
504	Facile synthesis of Fe-containing graphitic carbon nitride materials and their catalytic application in direct hydroxylation of benzene to phenol. Chinese Journal of Catalysis, 2018, 39, 1263-1271.	6.9	20

#	Article	IF	Citations
505	Photocatalytic coupled redox cycle for two organic transformations over Pd/carbon nitride composites. Catalysis Science and Technology, 2019, 9, 5077-5089.	2.1	26
506	Fullâ€Color Chemically Modulated gâ€C₃N₄ for Whiteâ€Lightâ€Emitting Device. Advanced Optical Materials, 2019, 7, 1900775.	3.6	33
507	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. Angewandte Chemie - International Edition, 2019, 58, 14950-14954.	7.2	120
508	Electronic, structural, optical, and photocatalytic properties of graphitic carbon nitride. New Journal of Chemistry, 2019, 43, 13647-13653.	1.4	30
509	Photoluminescence of carbon dots prepared by ball milling and their application in Hela cell imaging. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	8
510	Electrochemiluminescence sensing platform for ultrasensitive DNA analysis based on resonance energy transfer between graphitic carbon nitride quantum dots and gold nanoparticles. Sensors and Actuators B: Chemical, 2019, 297, 126790.	4.0	37
511	Heterojunction semiconductor g-C₃N₄/BiVO₄ with an enhanced photocatalytic activity based on the effective chemical bonding. Materials Technology, 2019, 34, 827-837.	1.5	10
512	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.	5.0	12
513	Elastic behavior and intrinsic carrier mobility for monolayer SnS and SnSe: First-principles calculations. Applied Surface Science, 2019, 492, 435-448.	3.1	44
514	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.	1.3	28
515	Influence of Cuâ€‰+â€‰g-C3N4 incorporation on the photocatalytic dye decomposition of ZnO film coated on stainless steel wire meshes. Journal of Materials Science: Materials in Electronics, 2019, 30, 19703-19717.	1.1	18
516	Hostâ€"Guest Recognition on 2D Graphitic Carbon Nitride for Nanosensing. Advanced Materials Interfaces, 2019, 6, 1901429.	1.9	30
517	Regulating Polymerization in Graphitic Carbon Nitride To Improve Photocatalytic Activity. Chemistry of Materials, 2019, 31, 9188-9199.	3.2	57
518	Holey g-C3N4 nanosheet wrapped Ag3PO4 photocatalyst and its visible-light photocatalytic performance. Solar Energy, 2019, 191, 70-77.	2.9	39
519	Synthesis and characterization of Z-scheme Î±-Fe2O3 NTs/ruptured tubular g-C3N4 for enhanced photoelectrochemical water oxidation. Solar Energy, 2019, 193, 403-412.	2.9	55
520	Bacillus licheniformis escapes from Myxococcus xanthus predation by deactivating myxovirescin A through enzymatic glucosylation. Environmental Microbiology, 2019, 21, 4755-4772.	1.8	26
521	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. Angewandte Chemie, 2019, 131, 15092-15096.	1.6	19
522	Ionic Carbon Nitrides in Solar Hydrogen Production and Organic Synthesis: Exciting Chemistry and Economic Advantages. ChemCatChem, 2019, 11, 6166-6176.	1.8	56

#	Article	IF	Citations
523	Preparation of NiCoP-decorated g-C3N4 as an efficient photocatalyst for H2O2 production. Research on Chemical Intermediates, 2019, 45, 5907-5917.	1.3	26
524	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.	3.8	44
525	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.	1.9	19
526	Highly Sensitive and Selective Fluorescence Probe for 2,4â€Dinitrophenylhydrazine Detection in Wastewater Using Waterâ€Soluble CdTe QDs. Photochemistry and Photobiology, 2019, 95, 895-900.	1.3	10
527	Structure Tuning of Polymeric Carbon Nitride for Solar Energy Conversion: From Nano to Molecular Scale. CheM, 2019, 5, 2775-2813.	5.8	78
528	Novel ternary BiOI/g-C3N4/CeO2 catalysts for enhanced photocatalytic degradation of tetracycline under visible-light radiation via double charge transfer process. Journal of Alloys and Compounds, 2019, 809, 151804.	2.8	75
529	Recent Advances in Graphene-like 2D Materials for Spintronics Applications. Chemistry of Materials, 2019, 31, 8260-8285.	3.2	119
530	Environmental remediation by microporous carbon: An efficient contender for CO2 and methylene blue adsorption. Journal of CO2 Utilization, 2019, 34, 656-667.	3.3	55
531	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.	1.5	11
532	Rapid and template-free synthesis of copper(I) oxide-graphitic carbon nitride heterojunction for photocatalytic degradation of orange II dye in water. Solid State Sciences, 2019, 97, 105994.	1.5	18
533	In situ growth of triazineâ€"heptazine based carbon nitride film for efficient (photo)electrochemical performance. Catalysis Science and Technology, 2019, 9, 425-435.	2.1	23
534	Synergistic effect of g-C3N4, Ni(OH)2 and halloysite in nanocomposite photocatalyst on efficient photocatalytic hydrogen generation. Renewable Energy, 2019, 138, 434-444.	4.3	40
535	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.	10.8	136
536	One-Pot Ionothermal Synthesized Carbon Nitride Heterojunction Nanorods for Simultaneous Photocatalytic Reduction and Oxidation Reactions: Synergistic Effect and Mechanism Insight. ACS Sustainable Chemistry and Engineering, 2019, 7, 5122-5133.	3.2	53
537	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. Chemical Science, 2019, 10, 2519-2528.	3.7	30
538	Carbon nanospheres with dual-color emission and their application in ratiometric pyrophosphate sensing. Analyst, The, 2019, 144, 550-558.	1.7	11
539	Cesium Salts as Mild Chemical Scissors To Trim Carbon Nitride for Photocatalytic H₂ Evolution. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	2
540	Recent development in graphitic carbon nitride based photocatalysis for hydrogen generation. Applied Catalysis B: Environmental, 2019, 257, 117855.	10.8	244

#	Article	IF	Citations
541	Whether Corrugated or Planar Vacancy Graphene-like Carbon Nitride (g-C₃N₄) Is More Effective for Nitrogen Reduction Reaction?. Journal of Physical Chemistry C, 2019, 123, 17296-17305.	1.5	46
542	Oxygen Reduction Reaction Activity of Microwave Mediated Solvothermal Synthesized CeO2/g-C3N4 Nanocomposite. Frontiers in Chemistry, 2019, 7, 403.	1.8	34
543	Atomic and electronic structures of graphene-decorated graphitic carbon nitride (g-C3N4) as a metal-free photocatalyst under visible-light. Applied Catalysis B: Environmental, 2019, 256, 117850.	10.8	19
544	Self-Coupled g-C₃N₄ van der Waals Heterojunctions for Enhanced Photocatalytic Hydrogen Production. ACS Applied Energy Materials, 2019, 2, 4692-4699.	2.5	27
545	Ultra-Thin Conductive Graphitic Carbon Nitride Assembly through van der Waals Epitaxy toward High-Energy-Density Flexible Supercapacitors. Nano Letters, 2019, 19, 4103-4111.	4.5	80
546	Unique electronic structure of Mg/O co-decorated amorphous carbon nitride enhances the photocatalytic tetracycline hydrochloride degradation. Chinese Journal of Catalysis, 2019, 40, 776-785.	6.9	13
547	Fabrication of protonated g-C₃N₄ nanosheets as promising proton conductive materials. Chemical Communications, 2019, 55, 7414-7417.	2.2	18
548	Directional Charge Transport in Layered Twoâ€Dimensional Triazineâ€Based Graphitic Carbon Nitride. Angewandte Chemie, 2019, 131, 9494-9498.	1.6	15
549	Directional Charge Transport in Layered Twoâ€Dimensional Triazineâ€Based Graphitic Carbon Nitride. Angewandte Chemie - International Edition, 2019, 58, 9394-9398.	7.2	60
550	Three-dimensional network structure assembled by g-C3N4 nanorods for improving visible-light photocatalytic performance. Applied Catalysis B: Environmental, 2019, 255, 117761.	10.8	164
551	From Heptazines to Triazines â€“ On the Formation of Poly(triazine imide). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 857-862.	0.6	27
552	Conjugated Electron Donorâ€“Acceptor Hybrid Polymeric Carbon Nitride as a Photocatalyst for CO2 Reduction. Molecules, 2019, 24, 1779.	1.7	73
553	High-performance carbon monoxide gas sensor based on palladium/tin oxide/porous graphitic carbon nitride nanocomposite. Journal of Alloys and Compounds, 2019, 795, 79-90.	2.8	42
554	Influence of the gas atmosphere during the synthesis of g-C₃N₄ for enhanced photocatalytic H₂ production from water on Au/g-C₃N₄ composites. Journal of Materials Chemistry A, 2019, 7, 14849-14863.	5.2	81
555	Recent advances in noble metal free doped graphitic carbon nitride based nanohybrids for photocatalysis of organic contaminants in water: A review. Applied Materials Today, 2019, 15, 494-524.	2.3	393
556	Pyrolysis of functional cellulose by ionothermal method to synthesis of mesoporous triazine carbon for supporting of Pd and its application. Carbohydrate Polymers, 2019, 217, 199-206.	5.1	20
557	Semiconductor polymeric graphitic carbon nitride photocatalysts: the â€œholy grailâ€• for the photocatalytic hydrogen evolution reaction under visible light. Energy and Environmental Science, 2019, 12, 2080-2147.	15.6	803
558	Fast photogenerated electron transfer in N-GQDs/PTI/ZnO-QDs ternary heterostructured nanosheets for photocatalytic H2 evolution under visible light. Applied Surface Science, 2019, 485, 361-367.	3.1	12

#	Article	IF	Citations
559	Enhanced Visible Light Photocatalytic Reduction of Cr(VI) over a Novel Square Nanotube Poly(Triazine) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	16
560	Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. Nanoscale, 2019, 11, 6876-6885.	2.8	128
561	Molten salt assistant synthesis of three-dimensional cobalt doped graphitic carbon nitride for photocatalytic N2 fixation: Experiment and DFT simulation analysis. Chemical Engineering Journal, 2019, 368, 896-904.	6.6	72
562	Acid Phosphatase Invoked Exquisite Enzyme Cascade for Amplified Colorimetric Bioassay. ACS Sustainable Chemistry and Engineering, 2019, 7, 7572-7579.	3.2	26
563	In situ growth of orthorhombic Sb2WO6 hierarchical structures on reduced graphene oxide (RGO) sheets via solvothermal approach for superior and substantially improved visible-light driven photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2019, 30, 5965-5977.	1.1	12
564	Density functional calculations of efficient H ₂ separation from impurity gases (H) Tj ETQq1 1 0.784314 rgBT /Overlock 10 bilayer g-C ₃ N. Chinese Physics B, 2019, 28, 048102.	0.7	14
565	Single-stranded DNA modified protonated graphitic carbon nitride nanosheets: A versatile ratiometric fluorescence platform for multiplex detection of various targets. Talanta, 2019, 197, 422-430.	2.9	12
566	A first blue fluorescence composite film based on graphitic carbon nitride nanosheets/polyoxometalate for application in reversible electroluminescence switching. Journal of Materials Chemistry C, 2019, 7, 3253-3262.	2.7	10
567	Effect of (super)alkali doping on the electronic and second-order nonlinear optical properties of graphitic C3N4. Optik, 2019, 183, 455-462.	1.4	18
568	Structure and reactivity of 2,4,6-tricyano-1,3,5-triazine under high-pressure conditions. CrystEngComm, 2019, 21, 4493-4500.	1.3	8
569	C₃N₅: A Low Bandgap Semiconductor Containing an Azo-Linked Carbon Nitride Framework for Photocatalytic, Photovoltaic and Adsorbent Applications. Journal of the American Chemical Society, 2019, 141, 5415-5436.	6.6	464
570	Enhanced Visible-Light-Induced Photocatalytic Performance of g-C3N4/ZnS/CuS Ternary Composite for Environmental Remediation. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012129.	0.3	2
571	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. Environmental Science: Nano, 2019, 6, 3324-3335.	2.2	16
572	Quenching induced hierarchical 3D porous g-C₃N₄ with enhanced photocatalytic CO₂ reduction activity. Chemical Communications, 2019, 55, 14023-14026.	2.2	83
573	Construction of ZnO Hollow Spheres Coupled with g-C3N4 as Enhanced Photocatalysts under Simulated Solar Light. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012128.	0.3	1
574	A bromine-catalysis-synthesized poly(3,4-ethylenedioxythiophene)/graphitic carbon nitride electrochemical sensor for heavy metal ion determination. RSC Advances, 2019, 9, 34691-34698.	1.7	14
575	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.	7.1	25
576	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.	5.0	51

#	Article	IF	Citations
577	A novel poly(triazine imide) hollow tube/ZnO heterojunction for tetracycline hydrochloride degradation under visible light irradiation. Advanced Powder Technology, 2019, 30, 359-365.	2.0	9
578	The metal-free magnetism and ferromagnetic narrow gap semiconductor properties in graphene-like carbon nitride. Physica B: Condensed Matter, 2019, 555, 91-95.	1.3	16
579	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO₂ Reduction. Angewandte Chemie - International Edition, 2019, 58, 3433-3437.	7.2	311
580	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO₂ Reduction. Angewandte Chemie, 2019, 131, 3471-3475.	1.6	56
581	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. Angewandte Chemie, 2019, 131, 6225-6236.	1.6	378
582	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 6164-6175.	7.2	481
583	Domestic LED light driven methylene blue degradation by g-C3N4-CaCu3Ti4O12 composite. Applied Surface Science, 2019, 467-468, 543-553.	3.1	16
584	Synthesis of Y-doped CeO2/PCN nanocomposited photocatalyst with promoted photoredox performance. Applied Catalysis B: Environmental, 2019, 243, 513-521.	10.8	88
585	Enhanced visible-light-driven photocatalytic H2 evolution on the novel nitrogen-doped carbon dots/CuBi2O4 microrods composite. Journal of Alloys and Compounds, 2019, 775, 511-517.	2.8	95
586	Cyano group modified carbon nitride with enhanced photoactivity for selective oxidation of benzylamine. Applied Catalysis B: Environmental, 2019, 242, 67-75.	10.8	87
587	Organic Photocatalysis: Carbon Nitride Semiconductors vs. Molecular Catalysts. European Journal of Organic Chemistry, 2020, 2020, 1294-1309.	1.2	59
588	Visible-light photocatalytic degradation of bisphenol A using cobalt-to-oxygen doped graphitic carbon nitride with nitrogen vacancies via metal-to-ligand charge transfer. Journal of Hazardous Materials, 2020, 384, 121247.	6.5	48
589	Modifying Crystallinity, Morphology, and Photophysical Properties of Carbon Nitride by Using Crystals as Reactants. Israel Journal of Chemistry, 2020, 60, 544-549.	1.0	4
590	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.	3.8	63
591	Fabrication of dual Z-scheme MIL-53(Fe)/Î±-Bi2O3/g-C3N4 ternary composite with enhanced visible light photocatalytic performance. Separation and Purification Technology, 2020, 232, 115959.	3.9	93
592	Direct Catalytic Hydroxylation of Benzene to Phenol Catalyzed by FeCl3 Supported on Exfoliated Graphitic Carbon Nitride. Catalysis Letters, 2020, 150, 301-311.	1.4	9
593	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.	3.1	21
594	Synthesis of nitrogen vacancies g-C3N4 with increased crystallinity under the controlling of oxalyl dihydrazide: Visible-light-driven photocatalytic activity. Applied Surface Science, 2020, 505, 144576.	3.1	25

#	Article	IF	Citations
595	A comparative photocatalytic study of pure and acid-etched template free graphitic C3N4 on different dyes: An investigation on the influence of surface modifications. Materials Chemistry and Physics, 2020, 243, 122402.	2.0	25
596	Mechanical and thermal performances of epoxy resin/graphitic carbon nitride composites. Journal of Applied Polymer Science, 2020, 137, 48598.	1.3	9
597	Experimental design for optimization of 4-nitrophenol reduction by green synthesized CeO2/g-C3N4/Ag catalyst using response surface methodology. Journal of Rare Earths, 2020, 38, 1171-1177.	2.5	18
598	Novel application of g-C3N4/NaNbO3 composite for photocatalytic selective oxidation of biomass-derived HMF to FFCA under visible light irradiation. Advanced Powder Technology, 2020, 31, 1148-1159.	2.0	59
599	Phosphorus-doped porous carbon nitride for efficient sole production of hydrogen peroxide via photocatalytic water splitting with a two-channel pathway. Journal of Materials Chemistry A, 2020, 8, 3701-3707.	5.2	89
600	ZnCr-CO3 LDH/ruptured tubular g-C3N4 composite with increased specific surface area for enhanced photoelectrochemical water splitting. Applied Surface Science, 2020, 508, 145100.	3.1	48
601	Polyacrylonitrile Nanofibers Incorporating Silver-Decorated Graphitic Carbon Nitride for the Visible-Light-Activated Selective Oxidation of Styrene, Benzylic Methylene Groups, and Benzene. ACS Applied Nano Materials, 2020, 3, 1922-1933.	2.4	19
602	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.	6.5	36
603	Photocatalysis: an overview of recent developments and technological advancements. Science China Chemistry, 2020, 63, 149-181.	4.2	107
604	Influence of nonmetal dopants on charge separation of graphitic carbon nitride by time-dependent density functional theory. Physical Chemistry Chemical Physics, 2020, 22, 647-657.	1.3	16
605	Recent developments in carbon nitride based films for photoelectrochemical water splitting. Sustainable Energy and Fuels, 2020, 4, 485-503.	2.5	68
606	Metal-free synthesis of dimethyl carbonateviatransesterification of ethylene carbonate catalyzed by graphitic carbon nitride materials. New Journal of Chemistry, 2020, 44, 3215-3223.	1.4	16
607	KOH-Assisted Band Engineering of Polymeric Carbon Nitride for Visible Light Photocatalytic Oxygen Reduction to Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2020, 8, 594-603.	3.2	57
608	Facile synthesis of pure g-C3N4 materials for peroxymonosulfate activation to degrade bisphenol A: Effects of precursors and annealing ambience on catalytic oxidation. Chemical Engineering Journal, 2020, 387, 123726.	6.6	95
609	Synthesis of Copolymerized Carbon Nitride Nanosheets from Urea and 2â€Aminobenzonitrile for Enhanced Visible Light CO₂ Reduction with a Ruthenium(II) Complex Catalyst. Solar Rrl, 2020, 4, 1900461.	3.1	13
610	Fabrication and Photodegradation Application of Isopropanol-Functionalized Poly (Triazine Imide). Journal of Electronic Materials, 2020, 49, 1518-1526.	1.0	3
611	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. Nano Research, 2020, 13, 18-37.	5.8	214
612	Precursorâ€Engineering Coupled Microwave Moltenâ€Salt Strategy Enhances Photocatalytic Hydrogen Evolution Performance of gâ€C₃N₄ Nanostructures. ChemSusChem, 2020, 13, 827-837.	3.6	54

#	Article	IF	Citations
613	Surface-state-induced upward band bending in P doped g-C₃N₄ for the formation of an isotype heterojunction between bulk g-C₃N₄ and P doped g-C₃N₄: photocatalytic hydrogen production. Catalysis Science and Technology, 2020, 10, 8015-8025.	2.1	24
614	Nickel hydroxide and zinc hydroxystannate dual modified graphite carbon nitride for the flame retardancy and smoke suppression of epoxy resin. Polymer Degradation and Stability, 2020, 182, 109366.	2.7	23
615	Aquaporin-like water transport in nanoporous crystalline layered carbon nitride. Science Advances, 2020, 6, .	4.7	17
616	Integrating Z-scheme heterojunction of Co₁-C₃N₄@Î±-Fe₂O₃ for efficient visible-light-driven photocatalytic CO₂ reduction. Green Chemistry, 2020, 22, 7552-7559.	4.6	38
617	Crystalline carbon nitride for photocatalytic phenol degradation: Effect of precursor and salt melt amounts. AIP Conference Proceedings, 2020, , .	0.3	0
618	Decomposition of ammonium perchlorate: Exploring catalytic activity of nanocomposites based on nano Cu/Cu2O dispersed on graphitic carbon nitride. Thermochimica Acta, 2020, 691, 178720.	1.2	19
619	Optimizing the crystallization process of conjugated polymer photocatalysts to promote electron transfer and molecular oxygen activation. Journal of Catalysis, 2020, 389, 636-645.	3.1	51
620	Synthesis of Zn doped g-C3N4 in KCl-ZnCl2 molten salts: The temperature window for promoting the photocatalytic activity. Applied Surface Science, 2020, 533, 147429.	3.1	15
621	LiClâ€"CN nanotubes ceramic films with highly efficient visible light - Driven photocatalytic active for bisphenol A degradation and efficient regeneration process. Ceramics International, 2020, 46, 26492-26501.	2.3	12
622	Colloidal properties of the metal-free semiconductor graphitic carbon nitride. Advances in Colloid and Interface Science, 2020, 283, 102229.	7.0	37
623	Binder-free heterostructure (g-C3N4/PPy) based thin film on semi-flexible nickel foam via hybrid spray technique for energy storage application. Progress in Natural Science: Materials International, 2020, 30, 298-307.	1.8	11
624	A new concept: Volume photocatalysis for efficient H2 generation __ Using low polymeric carbon nitride as an example. Applied Catalysis B: Environmental, 2020, 279, 119379.	10.8	104
625	Enhanced production of H₂ under visible light via co-deposited Pt and Ir species on g-C₃N₄. Catalysis Science and Technology, 2020, 10, 6378-6386.	2.1	6
626	First Principle Study of Na and P Co-Doped Heptazine Based Monolayer g-C₃N₄. Materials Science Forum, 0, 978, 369-376.	0.3	5
627	LaOClâ€Coupled Polymeric Carbon Nitride for Overall Water Splitting through a Oneâ€Photon Excitation Pathway. Angewandte Chemie - International Edition, 2020, 59, 20919-20923.	7.2	87
628	LaOClâ€Coupled Polymeric Carbon Nitride for Overall Water Splitting through a Oneâ€Photon Excitation Pathway. Angewandte Chemie, 2020, 132, 21105-21109.	1.6	10
629	Ionothermal Route to Phase-Pure RuB₂ Catalysts for Efficient Oxygen Evolution and Water Splitting in Acidic Media. ACS Energy Letters, 2020, 5, 2909-2915.	8.8	116
630	Exploring The Effect of Precursors of Polymeric Carbon Nitride Nanosheets on their Photo and Electrocatalytic Applications. ChemistrySelect, 2020, 5, 12679-12689.	0.7	2

#	Article	IF	Citations
631	Selective adsorption of propene over propane on Li-decorated poly (triazine imide). Green Energy and Environment, 2022, 7, 307-313.	4.7	4
632	g-C₃N₄-based photoelectrodes for photoelectrochemical water splitting: a review. Journal of Materials Chemistry A, 2020, 8, 21474-21502.	5.2	111
633	Oneâ€Step Synthesis of Visible Range Luminescent Multicomponent Semiconductor Composites Based on Graphitic Carbon Nitride. Advanced Photonics Research, 2020, 1, 2000004.	1.7	4
634	Self-supported CdSe nanowire/nanosheet photoanodes on cadmium foil via in situ hydrothermal transformation of CdSe(en)_{0.5} complex nanostructures. Nanoscale, 2020, 12, 19241-19252.	2.8	3
635	Emerging Concepts in Carbon Nitride Organic Photocatalysis. ChemPlusChem, 2020, 85, 2499-2517.	1.3	47
636	Density Functional Theory Study of Single-Atom V, Nb, and Ta Catalysts on Graphene and Carbon Nitride for Selective Nitrogen Reduction. ACS Applied Nano Materials, 2020, 3, 5149-5159.	2.4	51
637	Fabrication of spherical-graphitic carbon nitride via hydrothermal method for enhanced photo-degradation ability towards antibiotic. Chemical Physics Letters, 2020, 753, 137604.	1.2	28
638	Efficient hydroxylation of benzene to phenol by H₂O₂ using Ni-doped CuWO₄ on carbon nitride as a catalyst under solar irradiation and its structureâ€"activity correlation. Journal of Materials Chemistry A, 2020, 8, 12774-12789.	5.2	49
639	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 11075-11116.	5.2	142
640	Biuretâ€"A Crucial Reaction Intermediate for Understanding Urea Pyrolysis To Form Carbon Nitrides: Crystalâ€Structure Elucidation and In Situ Diffractometric, Vibrational and Thermal Characterisation. Chemistry - A European Journal, 2020, 26, 14366-14376.	1.7	10
641	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.	1.7	9
642	Graphitic carbon nitrideâ€"based nanocomposite materials for photocatalytic hydrogen generation. , 2020, , 293-324.		6
643	Tuning the nitrogen content of carbon dots in carbon nitride nanoflakes. Carbon, 2020, 167, 230-243.	5.4	15
644	Structure of Photoluminescence Spectra of Oxygen-Doped Graphitic Carbon Nitride. Journal of Applied Spectroscopy, 2020, 87, 9-14.	0.3	9
645	High-efficiency photocatalytic water splitting by a N-doped porous g-C₃N₄ nanosheet polymer photocatalyst derived from urea and N,N-dimethylformamide. Inorganic Chemistry Frontiers, 2020, 7, 1770-1779.	3.0	120
646	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. Nature Catalysis, 2020, 3, 649-655.	16.1	427
647	Novel synthesis of Z-scheme Î±-Bi2O3/g-C3N4 composite photocatalyst and its enhanced visible light photocatalytic performance: Influence of calcination temperature. Chinese Chemical Letters, 2020, 31, 2705-2711.	4.8	36
648	Bi2O3/ g-C3N4 nanocomposites as proficient photocatalysts for hydrogen generation from aqueous glycerol solutions beneath visible light. Ceramics International, 2020, 46, 24873-24881.	2.3	27

#	Article	IF	Citations
649	Novel torus shaped g-C3N4 photocatalysts. Applied Catalysis B: Environmental, 2020, 268, 118733.	10.8	56
650	Metal-free photocatalysts for hydrogen evolution. Chemical Society Reviews, 2020, 49, 1887-1931.	18.7	374
651	Ultra-thin deaminated tri-s-triazine-based crystalline nanosheets with high photocatalytic hydrogen evolution performance. Journal of Alloys and Compounds, 2020, 827, 154307.	2.8	22
652	A sensitive method to monitor catechol by using graphitic carbon nitride quantum dots as coreactants in Ru(bpy)32+-based electrochemiluminescent system. Journal of Electroanalytical Chemistry, 2020, 860, 113910.	1.9	16
653	ZnO-Modified g-C₃N₄: A Potential Photocatalyst for Environmental Application. ACS Omega, 2020, 5, 3828-3838.	1.6	179
654	A Novel Approach to Synthesize Nitrogen-Deficient g-C₃N₄for the Enhanced Photocatalytic Contaminant Degradation and Electrocatalytic Hydrogen Evolution. Nano, 2020, 15, 2050006.	0.5	9
655	Integrating nitrogen vacancies into crystalline graphitic carbon nitride for enhanced photocatalytic hydrogen production. Chemical Communications, 2020, 56, 3179-3182.	2.2	32
656	Detection of Silver Nanoparticles Using Green Synthesis of Fluorescent Nitrogen-Doped Carbon Dots. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 379-387.	0.7	6
657	Influence of nitrogen vacancies on selective oxidation of aromatic alcohols on g-C3N4: A comparative DFT study. Molecular Catalysis, 2020, 482, 110747.	1.0	5
658	Cobaltâ€Exchanged Poly(Heptazine Imides) as Transition Metalâ€"N_x Electrocatalysts for the Oxygen Evolution Reaction. Advanced Materials, 2020, 32, e1903942.	11.1	56
659	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.	4.7	105
660	Electronic Structure Engineering of Carbon Nitride Materials by Using Polycyclic Aromatic Hydrocarbons. Chemistry - A European Journal, 2020, 26, 6622-6628.	1.7	15
661	Recovery Behavior of the Luminescence Peak from Graphitic Carbon Nitride as a Function of the Synthesis Temperature. Crystal Research and Technology, 2020, 55, 1900163.	0.6	14
662	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. Journal of Materials Chemistry A, 2020, 8, 10571-10603.	5.2	80
663	Properties and mechanism of hexavalent chromium removal by FeS@ graphite carbon nitride nanocomposites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 597, 124751.	2.3	31
664	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.	2.3	33
665	Visible light photocatalytic degradation of tetracycline with porous Ag/graphite carbon nitride plasmonic composite: Degradation pathways and mechanism. Journal of Colloid and Interface Science, 2020, 574, 110-121.	5.0	105
666	Spatial Separation of Charge Carriers via Heterogeneous Structural Defects in Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 4428-4436.	2.4	24

#	Article	IF	Citations
667	Defects Engineering Leads to Enhanced Photocatalytic H₂ Evolution on Graphitic Carbon Nitrideâ€"Covalent Organic Framework Nanosheet Composite. Small, 2020, 16, e2001100.	5.2	72
668	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.	1.9	27
669	Graphitic Carbon Nitride for Enhancing Humidity Sensing of Microfibers. Journal of Lightwave Technology, 2021, 39, 3896-3902.	2.7	8
670	Construction of few-layered black phosphorus/graphite-like carbon nitride binary hybrid nanostructure for reducing the fire hazards of epoxy resin. Journal of Colloid and Interface Science, 2021, 586, 692-707.	5.0	39
671	Green sonochemical synthesis and fabrication of cubic MnFe2O4 electrocatalyst decorated carbon nitride nanohybrid for neurotransmitter detection in serum samples. Ultrasonics Sonochemistry, 2021, 70, 105305.	3.8	12
672	Increasing Ï€-electron availability in benzene ring incorporated graphitic carbon nitride for increased photocatalytic hydrogen generation. Journal of Materials Science and Technology, 2021, 65, 164-170.	5.6	26
673	Sunlight-induced uranium extraction with triazine-based carbon nitride as both photocatalyst and adsorbent. Applied Catalysis B: Environmental, 2021, 282, 119523.	10.8	91
674	Atomically dispersed and nanoscaled Co species embedded in micro-/mesoporous carbon nanosheet/nanotube architecture with enhanced oxygen reduction and evolution bifunction for Zn-Air batteries. Chemical Engineering Journal, 2021, 404, 127112.	6.6	44
675	One-pot synthesis of novel ternary Fe3N/Fe2O3/C3N4 photocatalyst for efficient removal of rhodamine B and CO2 reduction. Journal of Alloys and Compounds, 2021, 852, 156955.	2.8	79
676	Platinum and zinc oxide modified carbon nitride electrode as non-enzymatic highly selective and reusable electrochemical diabetic sensor in human blood. Bioelectrochemistry, 2021, 137, 107645.	2.4	33
677	Localized surface plasmonic resonance role of silver nanoparticles in the enhancement of long-chain hydrocarbons of the CO2 reduction over Ag-gC3N4/ZnO nanorods photocatalysts. Chemical Engineering Science, 2021, 229, 116049.	1.9	34
678	Boxâ€"Behnken design and experimental study of ciprofloxacin degradation over Ag2O/CeO2/g-C3N4 nanocomposites. International Journal of Environmental Science and Technology, 2021, 18, 2303-2324.	1.8	13
679	Mixing concentrated sulfuric acid and diethylenetriamine at room temperature: A rapid and facile approach to synthesize fluorescent carbon polymer hollow spheres as peroxidase mimics. Journal of Colloid and Interface Science, 2021, 582, 405-411.	5.0	7
680	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.	6.6	28
681	The exploration of metal-free catalyst g-C3N4 for NO degradation. Journal of Hazardous Materials, 2021, 404, 124153.	6.5	24
682	Graphitic carbon nitride-supported cobalt oxides as a potential catalyst for decomposition of N2O. Applied Surface Science, 2021, 538, 148157.	3.1	23
683	Highly selective and rapid non-enzymatic glucose sensing at ultrathin layered Nb doped C3N4 for extended linearity range. Microchemical Journal, 2021, 160, 105774.	2.3	9
684	A simple approach for controlling the morphology of g-C3N4 nanosheets with enhanced photocatalytic properties. Diamond and Related Materials, 2021, 111, 108214.	1.8	37

#	Article	IF	Citations
685	Organic wastewater treatment by a single-atom catalyst and electrolytically produced H2O2. Nature Sustainability, 2021, 4, 233-241.	11.5	350
686	Co and Ni assisted CdS@g-C3N4 nanohybrid: A photocatalytic system for efficient hydrogen evolution reaction. Materials Chemistry and Physics, 2021, 259, 124140.	2.0	14
687	Microwave-assisted fabrication of g-C₃N₄ nanosheets sustained Bi₂S₃ heterojunction composites for the catalytic reduction of 4-nitrophenol. Environmental Technology (United Kingdom), 2021, 42, 826-841.	1.2	20
688	Thermomechanical and anticorrosion characteristics of metal-organic frameworks. , 2021, , 295-330.		6
689	Palladium nanoparticles supported on exfoliated g-C₃N₄ as efficient catalysts for selective oxidation of benzyl alcohol by molecular oxygen. New Journal of Chemistry, 2021, 45, 13519-13528.	1.4	15
690	Creation of carbon defects and in-plane holes with the assistance of NH₄Br to enhance the photocatalytic activity of g-C₃N₄. Catalysis Science and Technology, 0, , .	2.1	15
691	DFT calculations for single-atom confinement effects of noble metals on monolayer g-C₃N₄ for photocatalytic applications. RSC Advances, 2021, 11, 4276-4285.	1.7	29
692	Z-Scheme versus type-II junction in g-C₃N₄/TiO₂ and g-C₃N₄/SrTiO₃/TiO₂ heterostructures. Catalysis Science and Technology, 2021, 11, 3589-3598.	2.1	25
693	Molecular Mechanism for the Self-Supported Synthesis of Graphitic Carbon Nitride from Urea Pyrolysis. Journal of Physical Chemistry Letters, 2021, 12, 1396-1406.	2.1	20
694	Ultratough and ultrastrong graphene oxide hybrid filmsviaa polycationitrile approach. Nanoscale Horizons, 2021, 6, 341-347.	4.1	6
695	Combination of Carbon Nitride and Semiconductors for the Enhancement of the Photocatalytic Degradation of Organic Pollutants and Hydrogen Production. RSC Nanoscience and Nanotechnology, 2021, , 318-370.	0.2	0
696	Photochemistry of carbon nitrides and heptazine derivatives. Chemical Communications, 2021, 57, 9330-9353.	2.2	15
697	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. Journal of Materials Chemistry A, 2021, 9, 2175-2183.	5.2	8
698	Graphitic carbon nitride-based metal-free photocatalyst. , 2021, , 449-484.		1
699	A comparative study on modified graphitic carbon nitride: Synthesis, characterization, and applications. , 2021, , 629-670.		2
700	Carbon nitride derivatives as photocatalysts for the CO2 reduction reaction: computational study. Physical Chemistry Chemical Physics, 2021, 23, 3401-3406.	1.3	1
701	Uracil-Doped Graphitic Carbon Nitride for Enhanced Photocatalytic Performance. ACS Applied Materials & Interfaces, 2021, 13, 12118-12130.	4.0	27
702	A novel phosphorusâ€nitrogen flame retardant for improving the flame retardancy of polyamide 6: Preparation, properties, and flame retardancy mechanism. Polymers for Advanced Technologies, 2021, 32, 2508-2516.	1.6	21

#	Article	IF	Citations
703	Long-Lived Triplet Excited State in a Heterogeneous Modified Carbon Nitride Photocatalyst. Journal of the American Chemical Society, 2021, 143, 4646-4652.	6.6	48
705	Preparation and application of defective graphite phase carbon nitride photocatalysts. Chinese Science Bulletin, 2021, , .	0.4	1
706	Platinum nanocomposites with mesoporous carbon nitride: synthesis and evaluation of the hydrogenation activity. Russian Chemical Bulletin, 2021, 70, 677-684.	0.4	2
707	A Z-scheme iron-based hollow microsphere with enhanced photocatalytic performance for tetracycline degradation. Journal of Materials Research, 2021, 36, 1600-1613.	1.2	4
708	Effects of sonochemical approach and induced contraction of coreâ€"shell bismuth sulfide/graphitic carbon nitride as an efficient electrode materials for electrocatalytic detection of antibiotic drug in foodstuffs. Ultrasonics Sonochemistry, 2021, 72, 105445.	3.8	32
709	Heterogeneous Fenton-like surface properties of oxygenated graphitic carbon nitride. Journal of Colloid and Interface Science, 2021, 587, 479-488.	5.0	21
710	Molecular Triazineâ€"Heptazine Junctions Promoting Exciton Dissociation for Overall Water Splitting with Visible Light. Journal of Physical Chemistry C, 2021, 125, 9818-9826.	1.5	55
711	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. Chemical Record, 2021, 21, 1811-1844.	2.9	29
712	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. Nano Today, 2021, 37, 101059.	6.2	82
713	EFFECT OF STRUCTURE AND SURFACE STATE OF NITROGEN DOPED CARBON NANOTUBES ON THEIR FUNCTIONAL AND CATALYTIC PROPERTIES. Journal of Structural Chemistry, 2021, 62, 771-781.	0.3	4
714	DFT and experimental study of elemental mercury (Hg0) removal by 2D-g-C3N4. Chemical Engineering Journal Advances, 2021, 6, 100095.	2.4	7
715	Wafer-scale growth of two-dimensional graphitic carbon nitride films. Matter, 2021, 4, 1625-1638.	5.0	52
716	Energy harvesting from g-C3N4 piezoelectric nanogenerators. Nano Energy, 2021, 83, 105743.	8.2	55
717	Injectable hydrogels based on oxidized alginate-gelatin reinforced by carbon nitride quantum dots for tissue engineering. International Journal of Pharmaceutics, 2021, 602, 120660.	2.6	39
718	Mechanistic analysis of multiple processes controlling solar-driven H2O2 synthesis using engineered polymeric carbon nitride. Nature Communications, 2021, 12, 3701.	5.8	175
719	Constructing BiOBr/g-C3N4/Bi2O2CO3 Z-scheme photocatalyst with enhanced photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2021, 32, 20539-20547.	1.1	6
720	A Tourâ€Guide through Carbon Nitrideâ€Land: Structureâ€•and Dimensionalityâ€Dependent Properties for Photo(Electro)Chemical Energy Conversion and Storage. Advanced Energy Materials, 2022, 12, 2101078.	10.2	81
721	Crystalline carbon nitride anchored on MXene as an ordered Schottky heterojunction photocatalyst for enhanced visible-light hydrogen evolution. Carbon, 2021, 179, 387-399.	5.4	57

#	Article	IF	Citations
722	Photoredoxâ€Catalyzed Simultaneous Olefin Hydrogenation and Alcohol Oxidation over Crystalline Porous Polymeric Carbon Nitride. ChemSusChem, 2021, 14, 3344-3350.	3.6	16
723	Synergistic Effect of K and I Codoped Porous Graphitic Carbon Nitride Sphere for Photocatalytic Hydrogen Evolution: Experimental and Theoretical Study. Solar Rrl, 2021, 5, 2100292.	3.1	6
724	Facile Fabrication of Novel SrMoO₄/gâ€C₃N₄ Hybrid Composite for Highâ€Performance Photocatalytic Degradation of Dye Pollutant under Sunlight. ChemistrySelect, 2021, 6, 7711-7721.	0.7	4
725	Fluorescent carbon-dots enhance light harvesting and photosynthesis by overexpressing PsbP and PsiK genes. Journal of Nanobiotechnology, 2021, 19, 260.	4.2	31
726	Carbon nitride materials: impact of synthetic method on photocatalysis and immobilization for photocatalytic pollutant degradation. Journal of Materials Science, 2021, 56, 18608-18624.	1.7	6
727	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.	5.6	15
728	Photocatalytic selective oxidation of HMF to DFF over Bi₂WO₆/mpgâ€“C₃N₄ composite under visible light. Applied Organometallic Chemistry, 2021, 35, e6404.	1.7	15
729	Accelerating interlayer charge transport of alkali metal-intercalated carbon nitride for enhanced photocatalytic hydrogen evolution. Research on Chemical Intermediates, 2021, 47, 5189-5202.	1.3	9
730	Fabrication of highly sensitive anticancer drug sensor based on heterostructured ZnO-Co3O4 capped on carbon nitride nanomaterials. Microchemical Journal, 2021, 167, 106244.	2.3	18
731	Novel Nonradical Oxidation of Sulfonamide Antibiotics with Co(II)-Doped g-C₃N₄-Activated Peracetic Acid: Role of High-Valent Cobaltâ€“Oxo Species. Environmental Science & Technology, 2021, 55, 12640-12651.	4.6	115
732	Onâ€Surface Polymerization of Inâ€Plane Highly Ordered Carbon Nitride Nanosheets toward Photocatalytic Mineralization of Mercaptan Gas. Advanced Materials, 2021, 33, e2101466.	11.1	130
733	Electrochemical Determination of Diclofenac by Using ZIF-67/g-C3N4 Modified Electrode. Adsorption Science and Technology, 2021, 2021, 1-14.	1.5	8
734	An ultra-sensitive room temperature toluene sensor based on molten-salts modified carbon nitride. Advanced Powder Technology, 2021, 32, 4198-4209.	2.0	5
735	Direct Atomicâ€Scale Structure and Electric Field Imaging of Triazineâ€Based Crystalline Carbon Nitride. Advanced Materials, 2021, 33, e2106359.	11.1	19
736	Synthesis of hexagonal rosettes of g-C3N4 with boosted charge transfer for the enhanced visible-light photocatalytic hydrogen evolution and hydrogen peroxide production. Journal of Colloid and Interface Science, 2021, 597, 345-360.	5.0	42
737	Introduction of crystalline hexagonal-C3N4 into g-C3N4 with enhanced charge separation efficiency. Applied Surface Science, 2021, 559, 149876.	3.1	17
738	Graphitic carbon nitride heterojunction photocatalysts for solar hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 37242-37267.	3.8	36
739	Carbon self-doped polytriazine imide nanotubes with optimized electronic structure for enhanced photocatalytic activity. Journal of Zhejiang University: Science A, 2021, 22, 751-759.	1.3	1

#	Article	IF	Citations
740	Performance improvement of Ï‡3 borophene in nitrogen fixation using singleâ€“atom anchoring: A firstâ€“principles study. Applied Surface Science, 2021, 560, 149667.	3.1	11
741	Preparation of g-C3N4/TiO2 by template method and its photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126756.	2.3	35
742	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.	1.4	13
743	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.	10.8	137
744	Ultrasensitive prostate specific antigen monitoring based on electrochemiluminescent immunesystem with synergistic signal amplification effect of resonance energy transfer coupling with K2S2O8-H2O2 dual coreactants. Journal of Electroanalytical Chemistry, 2021, 899, 115697.	1.9	6
745	Ascorbic acid-assisted hydrothermal route to create mesopores in polymeric carbon nitride for increased photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2021, 46, 38310-38318.	3.8	14
746	Synthesis of 3,5-diaminobenzoic acid containing crosslinked porous polyamine resin as a new adsorbent for efficient removal of cationic and anionic dyes from aqueous solutions. Journal of Water Process Engineering, 2021, 43, 102304.	2.6	22
747	Eutectic iodide-based salt as a melem-to-PTI conversion stopping agent for all-in-one graphitic carbon nitride. Applied Catalysis B: Environmental, 2021, 294, 120222.	10.8	13
748	Directional modulation of triazine and heptazine based carbon nitride for efficient photocatalytic H2 evolution. Applied Surface Science, 2021, 562, 150103.	3.1	7
749	Single molecular precursors for CxNy materials- Blending of carbon and nitrogen beyond g-C3N4. Carbon, 2021, 183, 332-354.	5.4	30
750	Graphitic carbon nitride composites as electro catalysts: Applications in energy conversion/storage and sensing system. Journal of Cleaner Production, 2021, 320, 128693.	4.6	16
751	Sustainable one-step synthesis of nanostructured potassium poly(heptazine imide) for highly boosted photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 424, 130332.	6.6	18
752	Recent advances in crystalline carbon nitride for photocatalysis. Journal of Materials Science and Technology, 2021, 91, 224-240.	5.6	97
753	Macroscopic graphitic carbon nitride monolith for efficient hydrogen production by photocatalytic reforming of glucose under sunlight. Chemosphere, 2021, 283, 131174.	4.2	8
754	Insight into metallic oxide semiconductor (SnO2, ZnO, CuO, Î±-Fe2O3, WO3)-carbon nitride (g-C3N4) heterojunction for gas sensing application. Sensors and Actuators A: Physical, 2021, 332, 113128.	2.0	45
755	Sodium doped flaky carbon nitride with nitrogen defects for enhanced photoreduction carbon dioxide activity. Journal of Colloid and Interface Science, 2021, 603, 210-219.	5.0	26
756	Exploration of photocatalytic seawater splitting on Pt/GaP-C3N4 under simulated sunlight. Applied Surface Science, 2022, 572, 151346.	3.1	13
757	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.	10.8	70

#	Article	IF	Citations
758	Z-scheme junction Bi2O2(NO3)(OH)/g-C3N4 for promoting CO2 photoreduction. Chemical Engineering Journal, 2022, 429, 132268.	6.6	27
759	Copolymerization of urea and murexide for efficient photocatalytic hydrogen evolution and tetracycline degradation. New Journal of Chemistry, 2021, 45, 1977-1983.	1.4	2
760	Development of metal-free layered semiconductors for 2D organic field-effect transistors. Chemical Society Reviews, 2021, 50, 11559-11576.	18.7	25
761	2D g-C₃N₄ as a bifunctional photocatalyst for co-catalyst and sacrificial agent-free photocatalytic N₂ fixation and dye photodegradation. New Journal of Chemistry, 2021, 45, 7174-7184.	1.4	15
762	Colorimetric detection of hypoxanthine in aquatic products based on the enzyme mimic of cobalt-doped carbon nitride. New Journal of Chemistry, 2021, 45, 18307-18314.	1.4	10
763	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.	5.2	14
764	Current Perspective on Synthesis, Properties, and Application of Graphitic Carbon Nitride Related-Compounds. Engineering Materials, 2020, , 413-432.	0.3	2
765	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.	10.8	148
766	Metal-free catalytic conversion of CO2 into cyclic carbonate by hydroxyl-functionalized graphitic carbon nitride materials. Molecular Catalysis, 2020, 491, 110979.	1.0	14
767	Metal Doped-C3N4/Fe2O4: Efficient and Versatile Heterogenous Catalysts for Organic Transformations. Current Organic Chemistry, 2019, 23, 1284-1306.	0.9	2
768	Multifunctional rare earth molecular ferroelectrics with a piezoelectric response: ((nBu)4N)3[Ce(NO3)4(SCN)2]((CH3CH2CH2CH2)4N = tetrabutylammonium). CrystEngComm, 0, , .	1.3	7
769	Highly active photocatalytic asphalt pavement for NOx removal using iron-doped g-C₃N₄. Road Materials and Pavement Design, 2022, 23, 2531-2546.	2.0	2
770	Tailoring the Pore Size, Basicity, and Binding Energy of Mesoporous C₃N₅ for CO₂ Capture and Conversion. Chemistry - an Asian Journal, 2021, 16, 3999-4005.	1.7	23
771	Simultaneous realization of holey in-plane defects and expanded interlayers in N-containing nanocarbons from a non-covalent-bonded organic framework for efficient oxygen reduction reaction. Electrochimica Acta, 2021, 400, 139475.	2.6	7
772	Optimized synthesis of solutionâ€processable crystalline poly(triazine imide) with minimized defects for OLED application. Angewandte Chemie, 0, , .	1.6	6
773	Gradient Zn-Doped Poly Heptazine Imides Integrated with a van der Waals Homojunction Boosting Visible Light-Driven Water Oxidation Activities. ACS Catalysis, 2021, 11, 13463-13471.	5.5	54
774	Optimized Synthesis of Solutionâ€Processable Crystalline Poly(Triazine Imide) with Minimized Defects for OLED Application. Angewandte Chemie - International Edition, 2022, 61, e202111749.	7.2	29
775	Study of photoluminescence quenching behavior of polystyrene thin film by nano graphitic carbon nitride. Optik, 2021, 248, 168204.	1.4	1

#	Article	IF	Citations
776	Research Progress on Improving the Photocatalysis of Graphite-C₃N₄ via O, S and P Doping. Journal of Advances in Physical Chemistry, 2017, 06, 84-96.	0.1	2
777	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.	0.3	0
778	Synthesis of Poly(3,4-Ethelenedioxythio-Phene)/Graphitic Carbon Nitride Electrochemical Sensor for Heavy Metal Ion Determination. Material Sciences, 2019, 09, 580-588.	0.0	0
779	Materials From Extreme High Pressure Conditions. , 2019, , .		1
780	Orientation and crystal structure of two-dimensional carbon nitride films. Japanese Journal of Applied Physics, 2020, 59, 080907.	0.8	0
781	One-Dimensional Conjugated Carbon Nitrides: Synthesis and Structure Determination by HRTEM and Solid-State NMR. Journal of Physical Chemistry Letters, 2021, 12, 10359-10365.	2.1	9
782	Sulfuric Acid Treated g-CN as a Precursor to Generate High-Efficient g-CN for Hydrogen Evolution from Water under Visible Light Irradiation. Catalysts, 2021, 11, 37.	1.6	9
783	Multifunctional Cl-S double-doped carbon nitride nanotube unit in catalytic ozone oxidation synergistic photocatalytic system: Generation of ROS-rich region and effective treatment of organic wastewater. Chemical Engineering Journal, 2022, 430, 132843.	6.6	22
784	H₂ and CH₄ production from bio-alcohols using condensed poly(heptazine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.2	20
785	A novel electrochemical sensor for the detection of fipronil and its toxic metabolite fipronil sulfone using TiO2-polytriazine imide submicrostructured composite as an efficient electrocatalyst. Talanta, 2022, 238, 123025.	2.9	6
786	Solventâ€Assisted Synthesis of Supramolecularâ€Assembled Graphitic Carbon Nitride for Visible Light Induced Hydrogen Evolution â€“ A Review. ChemCatChem, 2022, 14, .	1.8	5
787	Fully Condensed Poly (Triazine Imide) Crystals: Extended Ï€â€Conjugation and Structural Defects for Overall Water Splitting. Angewandte Chemie, 2022, 134, .	1.6	14
788	Creating triazine units to bridge carbon nitride with titania for enhanced hydrogen evolution performance. Journal of Colloid and Interface Science, 2022, 608, 2768-2778.	5.0	6
789	Fully Condensed Poly (Triazine Imide) Crystals: Extended Ï€â€Conjugation and Structural Defects for Overall Water Splitting. Angewandte Chemie - International Edition, 2022, 61, .	7.2	114
791	Efficient photocatalytic H2-evolution coupled with valuable furfural-production on exquisite 2D/2D LaVO4/g-C3N4 heterostructure. Nano Energy, 2022, 92, 106714.	8.2	79
792	Synergistic effect of KCl mixing and melamine/urea mixture in the synthesis of g-C3N4 for photocatalytic removal of tetracycline. Journal of Industrial and Engineering Chemistry, 2022, 107, 118-125.	2.9	18
793	Boosting photocatalytic hydrogen production by creating isotype heterojunctions and single-atom active sites in highly-crystallized carbon nitride. Science Bulletin, 2022, 67, 520-528.	4.3	29
794	Polytriazine imide-LiCl semiconductor for highly efficient photooxidation of benzyl alcohol to benzaldehyde. Journal of Chemical Sciences, 2021, 133, 1.	0.7	0

#	Article	IF	Citations
795	Synthesis of Large Area Graphitic Carbon Nitride Nanosheet by Chemical Vapor Deposition. SSRN Electronic Journal, 0, , .	0.4	0
796	KNO₃-Assisted incorporation of K dopants and N defects into g-C₃N₄ with enhanced visible light driven photocatalytic H₂O₂ production. New Journal of Chemistry, 2021, 45, 22591-22601.	1.4	8
797	Nanostructural synergism as Mn N C channels in manganese (IV) oxide and fluffy g-C3N4 layered composite with exceptional catalytic capabilities. Journal of Colloid and Interface Science, 2022, 610, 258-270.	5.0	2
798	Synthesis of large area graphitic carbon nitride nanosheet by chemical vapor deposition. Journal of Alloys and Compounds, 2022, 900, 163310.	2.8	4
799	Optimized Synthesis Temperature and Time to Obtain Crystalline Carbon Nitride with Enhanced Photocatalytic Activity for Phenol Degradation. Indonesian Journal of Chemistry, 2020, 20, 1392.	0.3	2
800	A brief review of s-triazine graphitic carbon nitride. Carbon Letters, 2022, 32, 703-712.	3.3	15
801	Tunable type-II band alignment and electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi>MoSi</mml:mi><mml:mi mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> heterostructure: Interlayer coupling and electric. Physical Review B, 2022, 105, .	1.1	56
802	Multi-omics analyses revealed key factors involved in fluorescent carbon-dots-regulated secondary metabolism in Tetrastigma hemsleyanum. Journal of Nanobiotechnology, 2022, 20, 63.	4.2	4
803	Plasmonic Ag nanoparticles decorated g-C3N4 for enhanced visible-light driven photocatalytic degradation and H2 production. , 2022, 1, 1-7.		7
804	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.	2.2	6
805	Highly efficient photocatalytic degradation for antibiotics and mechanism insight for Bi2S3/g-C3N4 with fast interfacial charges transfer and excellent stability. Arabian Journal of Chemistry, 2022, 15, 103689.	2.3	12
806	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.	2.0	13
807	Graphitic carbon nitride-based nanoplatforms for biosensors: design strategies and applications. Materials Today Chemistry, 2022, 24, 100770.	1.7	20
808	Nitrogen-defect induced trap states steering electron-hole migration in graphite carbon nitride. Applied Catalysis B: Environmental, 2022, 306, 121142.	10.8	61
809	Tremendous boost in the photocatalytic properties of g-C₃N₄: regulation from polymerization kinetics to crystal structure engineering. CrystEngComm, 2022, 24, 2023-2035.	1.3	3
810	KClâ€"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.	2.3	18
811	Recent Advancement of the Current Aspects of gâ€C₃N₄for its Photocatalytic Applications in Sustainable Energy System. Chemical Record, 2022, 22, e202100310.	2.9	32
812	Preparation of polymeric carbon nitride/TiO2 heterostructure with NH4Cl as template: Structural and photocatalytic studies. Journal of Physics and Chemistry of Solids, 2022, 164, 110629.	1.9	9

#	Article	IF	Citations
813	Synthesis of an iso-type graphitic carbon nitride heterojunction derived from oxamide and urea in molten salt for high-performance visible-light driven photocatalysis. New Journal of Chemistry, 2022, 46, 8999-9009.	1.4	4
814	New functionalisation reactions of graphitic carbon nitrides: Computational and experimental studies. Journal of Chemical Research, 2022, 46, 174751982110738.	0.6	1
815	The solvent-free and aerobic oxidation of benzyl alcohol catalyzed by Pd supported on carbon nitride/CeO₂ composites. New Journal of Chemistry, 2022, 46, 7108-7117.	1.4	8
816	Rational design of a graphitic carbon nitride catalyticâ€"biocatalytic system as a photocatalytic platform for solar fine chemical production from CO₂. Reaction Chemistry and Engineering, 2022, 7, 1566-1572.	1.9	20
817	Allochroic Platinum/Carbon Nitride with Photoactivated Ohmic Contact for Efficient Visible-Light Photocatalytic Hydrogen Evolution. SSRN Electronic Journal, 0, , .	0.4	0
818	Chemical Vapor Deposition of 2D Crystallized g-C₃N₄ Layered Films. Journal of Physical Chemistry C, 2022, 126, 4710-4714.	1.5	6
819	Crystalline C₃N₄/CeO₂ composites as photocatalyst for hydrogen production in visible light. IOP Conference Series: Earth and Environmental Science, 2022, 997, 012018.	0.2	0
820	Photocatalytic Waterâ€Splitting by Organic Conjugated Polymers: Opportunities and Challenges. Chemical Record, 2022, 22, e202100336.	2.9	24
821	Metal-free Knoevenagel condensation catalyzed by mesoporous and nitrogen-distribution-tunable supported carbon nitride. Research on Chemical Intermediates, 0, , 1.	1.3	3
822	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.	3.8	51
823	Kâ€"I co-doped crystalline carbon nitride with outstanding visible light photocatalytic activity for H2 evolution. International Journal of Hydrogen Energy, 2022, 47, 12569-12581.	3.8	11
824	One-step fabrication of crystalline carbon nitride with tunable in-plane/interlayer crystallinity for enhanced photocatalytic hydrogen evolution. Journal of Alloys and Compounds, 2022, 910, 164828.	2.8	6
825	Enhancement of photoluminescence intensity of epoxy thin-film resin by nano graphitic carbon nitride. Physica B: Condensed Matter, 2022, 632, 413718.	1.3	1
826	The amalgamation of g-C3N4 and VO2 (D) as a facile electrode for enhanced storage of energy. Synthetic Metals, 2022, 286, 117046.	2.1	13
827	Degradation of mixed cationic dye pollutant by metal free melem derivatives and graphitic carbon nitride. Chemosphere, 2022, 298, 134249.	4.2	14
828	Local Spatial Polarization Induced Efficient Charge Separation of Squaraineâ€Linked COF for Enhanced Photocatalytic Performance. Advanced Functional Materials, 2022, 32, .	7.8	56
829	Titania-Carbon Nitride Interfaces in Gold-Catalyzed CO Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 61015-61026.	4.0	4
830	Size Effects of the Anions in the Ionothermal Synthesis of Carbon Nitride Materials. Chemistry - A European Journal, 2022, 28, .	1.7	18

#	Article	IF	Citations
831	Photocatalytic hydrogen evolution based on carbon nitride and organic semiconductors. Nanotechnology, 2022, 33, 322001.	1.3	7
832	In Situ Construction of Li3n-Enriched Interface Enabling Ultra-Stable Solid-State Lini0.8co0.1mn0.1o2/Lithium Metal Batteries. SSRN Electronic Journal, 0, , .	0.4	0
833	Sustained delivery of gambogic acid from mesoporous rod-structure hydroxyapatite for efficient in vitro cancer therapy. , 2022, , 212821.		2
834	Synthesis of palladiumâ€chelated poly(triazine imide) heterogeneous nanocatalysts for reduction of pâ€nitrophenol to pâ€aminophenol. Journal of Applied Polymer Science, 0, , .	1.3	0
835	Promoting intramolecular charge transfer of graphitic carbon nitride by donorâ€“acceptor modulation for visibleâ€light photocatalytic H₂ evolution. , 2022, 1, 294-308.		92
836	Integrating coral-like morphology into cyano-containing carbon nitride towards efficient photocatalytic H2 evolution and Cr(â...¥) reduction. International Journal of Hydrogen Energy, 2022, 47, 20803-20815.	3.8	6
837	Crystalline Intramolecular Ternary Carbon Nitride Homojunction for Photocatalytic Hydrogen Evolution. ACS Catalysis, 2022, 12, 6345-6358.	5.5	101
838	In situ Growth of Graphitic Carbon Nitride on Multiwalled Carbon Nanotubes for Interfacial Thermal Management. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, , 129232.	2.3	1
839	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.	9.5	34
840	Facile fabrication of a metal-free 2Dâ€“2D Nb2CTx@g-C3N4 MXene-based Schottky-heterojunction with the potential application in photocatalytic processes. Journal of Alloys and Compounds, 2022, 916, 165459.	2.8	35
841	Geoinspired syntheses of materials and nanomaterials. Chemical Society Reviews, 2022, 51, 4828-4866.	18.7	4
842	Synthesis of Z-scheme g-C3N4/Gd-doped Bi2WO6 heterojunction with enhanced visible-light photodegradation of organic dyes. Journal of Materials Science: Materials in Electronics, 2022, 33, 14545-14555.	1.1	2
843	Nanocomposite ZnO/g-C3N4 for Improved Degradation of Dyes under Visible Light: Facile Preparation, Characterization, and Performance Investigations. Bulletin of Chemical Reaction Engineering and Catalysis, 2022, 17, 403-419.	0.5	10
844	Porous and Few-Layer Carbon Nitride Nanosheets via Surface Steam Etching for Enhanced Photodegradation Activity. ACS Applied Nano Materials, 2022, 5, 7798-7810.	2.4	9
845	Magnetic Nanoparticles Supported on gâ€C₃N₄ : An Efficient Heterogeneous Catalyst for Selective Transfer Hydrogenation of Furfural to Furfuryl alcohol. ChemistrySelect, 2022, 7, .	0.7	1
846	Fabrication of Enzyme-Free and Rapid Electrochemical Detection of Glucose Sensor Based on ZnO Rod and Ru Doped Carbon Nitride Modified Gold Transducer. Nanomaterials, 2022, 12, 1778.	1.9	8
847	Enhanced photocatalytic degradation of tetracycline over magnetic La0.7Sr0.3MnO3/g-C3N4 pâ€“n heterojunction arising from the synergistic effects of oxygen vacancy defects and high-potential photogenerated electrons. Journal of Alloys and Compounds, 2022, 918, 165699.	2.8	8
848	Electrostatic self-assembly combined with microwave hydrothermal strategy: construction of 1D/1D carbon nanofibers/crystalline g-C3N4 heterojunction for boosting photocatalytic hydrogen production. Nano Energy, 2022, 99, 107432.	8.2	50

#	Article	IF	Citations
849	Enhanced photocatalytic overall water splitting from an assembly of donor-Ï€-acceptor conjugated polymeric carbon nitride. Journal of Colloid and Interface Science, 2022, 624, 411-422.	5.0	26
850	Influence of the Precursors Selection on the Porous Structure and Adsorption Properties of C/gâ€C ₃ N ₄ Composites. ChemistrySelect, 2022, 7, .	0.7	2
851	In situ construction of Li3N-enriched interface enabling ultra-stable solid-state LiNi0.8Co0.1Mn0.1O2/lithium metal batteries. Nano Energy, 2022, 100, 107470.	8.2	34
852	Green and efficient synthesis of carbon quantum dots from cordia myxa L. and their application in photocatalytic degradation of organic dyes. Journal of Molecular Structure, 2022, 1266, 133456.	1.8	17
853	Carbon nitride photocatalysts for water treatment and purification. , 2022, , 137-174.		0
854	Piezoelectric induced reverse photocatalytic performances of carbon nitride with different structures. Catalysis Science and Technology, 2022, 12, 5372-5378.	2.1	5
855	Solar energy harvesting with carbon nitrides. , 2022, , 81-107.		0
856	Prolific intercalation of VO₂ (D)/polypyrrole/g-C₃N₄ as an energy storing electrode with remarkable capacitance. New Journal of Chemistry, 2022, 46, 14251-14266.	1.4	6
857	ZrO2 Supported on Graphitic Carbon Nitride Based on Metalâ€"Nitrogen Interaction for Enhanced Catalytic Cycloaddition of CO2 to Cyclic Carbonates. Catalysis Letters, 2023, 153, 1483-1494.	1.4	8
858	Donor-acceptor anchoring nanoarchitectonics in polymeric carbon nitride for rapid charge transfer and enhanced visible-light photocatalytic hydrogen evolution reaction. Carbon, 2022, 197, 378-388.	5.4	11
859	Novel visible light driven crystalline carbon nitride-tungsten oxide composites for photodegradation of phenol. Diamond and Related Materials, 2022, 128, 109246.	1.8	2
860	Constructing Ni4/Fe@Fe3O4-g-C3N4 nanocomposites for highly efficient degradation of carbon tetrachloride from aqueous solution. Chemosphere, 2022, 307, 136169.	4.2	3
861	Smart apparel using nano graphitic carbon nitride/PVA in a cotton cloth for military application. Heliyon, 2022, 8, e10345.	1.4	3
862	Ultrafast Electron Transfer from Crystalline g-C₃N₄ to Pt Revealed by Femtosecond Transient Absorption Spectroscopy. Energy & Fuels, 2022, 36, 11532-11541.	2.5	13
863	Carbon Nitride Photoredox Catalysis Enables the Generation of the Dioxolanyl Radical for Conjugate Addition Reactions. ACS Catalysis, 2022, 12, 10787-10792.	5.5	10
864	Unblocking Ionâ€occluded Pore Channels in Poly(triazine imide) Framework for Proton Conduction. Angewandte Chemie, 2022, 134, .	1.6	2
866	Regulating polymerization degree of heptazines in carbon nitride with fumaric acid to enhance photocatalytic activity. Chemosphere, 2022, 307, 136210.	4.2	1
867	Unblocking Ionâ€occluded Pore Channels in Poly(triazine imide) Framework for Proton Conduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9

#	Article	IF	Citations
868	Perspectives on Advances in the Catalytic Desulfurization and Denitrogenation of Transportation Fuel Oils Using Graphitic Carbon Nitride and Boron Nitride. Energy & Fuels, 2022, 36, 8900-8924.	2.5	6
869	Pyridazine doped g-C3N4 with nitrogen defects and spongy structure for efficient tetracycline photodegradation and photocatalytic H2 evolution. Chemosphere, 2022, 307, 136087.	4.2	14
870	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.	10.8	65
871	MOF-derived tunable spin-state MnIII doped g-C3N4 photocatalysts with enhanced photocatalytic activity. Separation and Purification Technology, 2022, 302, 122146.	3.9	7
872	Recent advances in high-crystalline conjugated organic polymeric materials for photocatalytic CO₂conversion. Nanoscale, 2022, 14, 15217-15241.	2.8	13
873	Particulate photocatalysts for overall water splitting and implications regarding panel reactors for large-scale applications. , 2022, , 221-250.		0
874	A review on recent advances in selective and sensitive detection of heavy toxic metal ions in water using g-C₃N₄-based heterostructured composites. Materials Chemistry Frontiers, 2022, 6, 2610-2650.	3.2	13
875	Î²-Ni(OH)2 supported over g-C3N4: A novel catalyst for para-nitrophenol reduction and supercapacitor electrode. Results in Chemistry, 2022, 4, 100498.	0.9	8
876	Exploring the evolution patterns of melem from thermal synthesis of melamine to graphitic carbon nitride. RSC Advances, 2022, 12, 24311-24318.	1.7	3
877	Ionothermally synthesized S-scheme isotype heterojunction of carbon nitride with significantly enhanced photocatalytic performance for hydrogen evolution and carbon dioxide reduction. Carbon, 2023, 201, 815-828.	5.4	17
878	Mechanochemical bottom-up synthesis of phosphorus-linked, heptazine-based carbon nitrides using sodium phosphide. Beilstein Journal of Organic Chemistry, 0, 18, 1203-1209.	1.3	2
879	Embedding Thiophene-Amide into g-C3N4 Skeleton with Induction and Delocalization Effects for High Photocatalytic H2 Evolution. Catalysts, 2022, 12, 1043.	1.6	8
880	Improved Charge Separation in Poly(heptazineâ€triazine) Imides with Semiâ€coherent Interfaces for Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2022, 134, .	1.6	3
881	Rapid thermal vapor condensation towards crystalline carbon nitride film with improved photoelectrochemical activity. Journal Physics D: Applied Physics, 2022, 55, 444001.	1.3	1
882	Improved Charge Separation in Poly(heptazineâ€triazine) Imides with Semiâ€coherent Interfaces for Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2022, 61, .	7.2	47
883	Catalytic mechanism and activity of N₂ reduction on boron-decorated crystalline carbon nitride. 2D Materials, 2022, 9, 045035.	2.0	2
884	Applications of Bi2S3-based nanomaterials in photoelectric chemical sensors and biosensors. FlatChem, 2022, 36, 100440.	2.8	2
885	Modification <scp>gâ€C₃N₄</scp> by <scp>MgO</scp> and its application for glycerol carbonate synthesis from glycerol and dimethyl carbonate. Environmental Progress and Sustainable Energy, 2023, 42, .	1.3	3

#	Article	IF	Citations
886	Highly Dispersed Vanadia Anchored on Protonated g-C3N4 as an Efficient and Selective Catalyst for the Hydroxylation of Benzene into Phenol. Molecules, 2022, 27, 6965.	1.7	0
887	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.	3.9	15
888	Rapid fabrication of MgO@g-C₃N₄ heterojunctions for photocatalytic nitric oxide removal. Beilstein Journal of Nanotechnology, 0, 13, 1141-1154.	1.5	4
889	Synthesis of crystalline g-C3N4 with rock/molten salts for efficient photocatalysis and piezocatalysis. Green Energy and Environment, 2022, , .	4.7	4
890	Efficient synthesis of cyclic carbonate via transformation of CO2 catalyzed by solid-base bifunctional graphitic carbon nitride materials. Research on Chemical Intermediates, 2022, 48, 4883-4900.	1.3	5
891	Polymeric Carbon Nitride/Iron Oxide Composites: A Novel Class of Catalysts with Reduced Metal Content for Ammonium Perchlorate Thermal Decomposition. ACS Omega, 2022, 7, 38512-38524.	1.6	3
892	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, , .	0.3	0
893	An overview of the current progress of graphitic carbon nitride and its multifunctional applications. Journal of Environmental Chemical Engineering, 2022, 10, 108745.	3.3	12
894	Electropositive far-ultraviolet carbon nanoparticles-based photoluminescent photoinduced-electron transfer sensor for sodium dodecyl sulfate and sodium lauryl sulfonate detection. Dyes and Pigments, 2023, 208, 110859.	2.0	4
895	Trio obtainment through polypyrrole insertions in argentum/graphitic carbon nitride for accelerating super-capacitive energy parameters. Journal of Energy Storage, 2022, 56, 105879.	3.9	10
896	Extraordinary Ultrahighâ€Capacity and Long Cycle Life Lithiumâ€Ion Batteries Enabled by Graphitic Carbon Nitrideâ€Perylene Polyimide Composites. Energy and Environmental Materials, 2023, 6, .	7.3	4
897	Polymeric Carbon Nitride from Inorganic Precursor in Eutectic Salts: Enhanced Exciton Dissociation and Photocatalytic H₂O₂ Production. Journal of Physical Chemistry C, 2022, 126, 20028-20035.	1.5	8
898	Development of Efficient and Recyclable ZnOâ€"CuO/gâ€"C3N4 Nanocomposite for Enhanced Adsorption of Arsenic from Wastewater. Nanomaterials, 2022, 12, 3984.	1.9	3
899	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.	1.9	5
900	Partially cross-linked carbon nitride with unimpeded charge transfer between different chains for boosting photocatalytic hydrogen production. Materials Horizons, 2023, 10, 601-606.	6.4	4
901	One-step nitrogen defect engineering of polymeric carbon nitride for visible light-driven photocatalytic O2 reduction to H2O2. Journal of Colloid and Interface Science, 2023, 634, 138-147.	5.0	6
902	Understanding the intermediates and carbon dioxide adsorption of potassium chloride-incorporated graphitic carbon nitride with tailoring melamine and urea as precursors. Journal of Colloid and Interface Science, 2023, 633, 598-607.	5.0	4
903	Role of Seawater Ions in Forming an Effective Interface between Photocatalyst/Cocatalyst. ACS Applied Materials & Interfaces, 2023, 15, 1219-1226.	4.0	3

#	Article	IF	Citations
904	Photocatalytic Degradation of Methylene Blue by ZnO/g-C₃N₄. Hans Journal of Chemical Engineering and Technology, 2023, 13, 17-25.	0.0	0
905	Recent Advances in g-C3N4-Based Photocatalysts for NOx Removal. Catalysts, 2023, 13, 192.	1.6	3
906	Growth of Robust Carbon Nitride Films by Double Crystallization with Exceptionally Boosted Electrochemiluminescence for Visual DNA Detection. Advanced Optical Materials, 2023, 11, .	3.6	9
907	Controlled Synthesis of Nitro-Terminated Oligothiophene/Crystallinity-Improved g-C₃N₄ Heterojunctions for Enhanced Visible-Light Catalytic H₂ Production. ACS Applied Materials & Interfaces, 2023, 15, 5365-5377.	4.0	11
908	Fabrication of visible-active ZnO-gC3N4 nanocomposites for photodegradation and cytotoxicity of methyl orange and antibacterial activity towards drug resistance pathogens. Optical Materials, 2023, 136, 113392.	1.7	15
909	Optical and quantitative detection of cobalt ion using graphitic carbon nitride-based chemosensor for hydrometallurgy of waste lithium-ion batteries. Chemosphere, 2023, 315, 137789.	4.2	3
910	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.	3.3	7
911	Conjugated Polymer Coupled with Graphitic Carbon Nitride for Boosting Photocatalytic Hydrogen Generation under Visible Light. Sustainable Energy and Fuels, 0, , .	2.5	0
912	The cooperative role of nitrogen defects and cyano-group functionalization in carbon nitride towards enhancing its CO₂photoreduction activity. Sustainable Energy and Fuels, 2023, 7, 1664-1676.	2.5	4
913	Potassium and Sulfur Dual Sites on Highly Crystalline Carbon Nitride for Photocatalytic Biorefinery and CO₂ Reduction. ACS Catalysis, 2023, 13, 2106-2117.	5.5	36
914	Structure and Optical Properties of Polymeric Carbon Nitrides from Atomistic Simulations. Chemistry of Materials, 2023, 35, 1547-1559.	3.2	9
915	Complete removal of 4-fluorophenol using a novel optical fiber photocatalysisâ€“biodegradationâ€“ion-adsorption system. Chemical Engineering Journal, 2023, 464, 142631.	6.6	3
916	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.	7.1	8
917	Maximization of the photocatalytic degradation of diclofenac using polymeric g-C3N4 by tuning the precursor and the synthetic protocol. Catalysis Today, 2023, 418, 114075.	2.2	6
918	Highly selective and real-time detection of 5-hydroxymethylcytosine in genomic DNA using a carbon nitride-modified gold transducer-based electrochemical sensor. Journal of Alloys and Compounds, 2023, 948, 169715.	2.8	2
919	Promotion of photocatalytic hydrogen evolution induced by graphitic carbon nitride transformation from 2D flakes to 1D nanowires. Materials Research Bulletin, 2023, 163, 112210.	2.7	3
920	Exploring nanoengineering strategies for the preparation of graphitic carbon nitride nanostructures. FlatChem, 2023, 38, 100473.	2.8	3
921	Upgrading of g-C3N4 semiconductor by a Nitrogen-doped carbon material: A photocatalytic degradation application. Journal of Environmental Chemical Engineering, 2023, 11, 109381.	3.3	6

#	Article	IF	Citations
922	Nanoarchitecture Manipulation by Polycondensation on KCl Crystals toward Crystalline Lamellar Carbon Nitride for Efficient H₂O₂ Photoproduction. ACS Applied Materials & Interfaces, 2023, 15, 8232-8240.	4.0	14
923	Nanostructured Layered Lithium Iridates as Electrocatalysts for Improved Oxygen Evolution Reaction. ACS Applied Nano Materials, 2023, 6, 2577-2584.	2.4	0
924	The Directional Crystallization Process of Poly (triazine imide) Single Crystals in Molten Salts. Angewandte Chemie, 2023, 135, .	1.6	2
925	The Directional Crystallization Process of Poly (triazine imide) Single Crystals in Molten Salts. Angewandte Chemie - International Edition, 2023, 62, .	7.2	23
926	Frontier nanoarchitectonics of graphitic carbon nitride based plasmonic photocatalysts and photoelectrocatalysts for energy, environment and organic reactions. Materials Chemistry Frontiers, 2023, 7, 1197-1247.	3.2	18
927	Designing Black Phosphorus and Heptazine-Based Crystalline Carbon Nitride Composites for Photocatalytic Water Splitting. Crystals, 2023, 13, 312.	1.0	1
928	Green Light Photoelectrocatalysis with Sulfurâ€Doped Carbon Nitride: Using Triazoleâ€Purpald for Enhanced Benzylamine Oxidation and Oxygen Evolution Reactions. Advanced Science, 2023, 10, .	5.6	14
929	Crystallinity-defect matching relationship of g-C3N4: Experimental and theoretical perspectives. Green Energy and Environment, 2024, 9, 623-658.	4.7	2
930	In Situ Polycondensation Synthesis of NiS-g-C3N4 Nanocomposites for Catalytic Hydrogen Generation from NaBH4. Nanomaterials, 2023, 13, 938.	1.9	7
931	Saltâ€Melt Synthesis of Poly Heptazine Imides with Enhanced Optical Absorption for Photocatalytic Hydrogen Production. ChemSusChem, 2023, 16, .	3.6	22
932	Allochroic platinum/carbon nitride with photoactivated ohmic contact for efficient visible-light photocatalytic hydrogen evolution. Chemical Engineering Journal, 2023, 462, 142337.	6.6	3
933	Preparation of carbon quantum dots from ionic liquid modified biomass for the detection of Fe3+ and Pd2+ in environmental water. Ecotoxicology and Environmental Safety, 2023, 255, 114795.	2.9	7
934	Anchored Cu single atoms on porous g-C₃N₄ for superior photocatalytic H₂ evolution from water splitting. RSC Advances, 2023, 13, 8915-8922.	1.7	5
935	Potassium Molten Salt-Mediated In Situ Structural Reconstruction of a Carbon Nitride Photocatalyst. ACS Applied Materials & Interfaces, 2023, 15, 18898-18906.	4.0	8
936	Graphitic carbon nitride materials in dual metallo-photocatalysis: a promising concept in organic synthesis. Green Chemistry, 2023, 25, 3374-3397.	4.6	13
937	A bimetallic co-doped iron and copper in polymeric graphitic carbon nitride to enhance catalytic activity and reusability of Fenton-like oxidation. Separation and Purification Technology, 2023, 316, 123782.	3.9	1
938	Salt-Mediated Structural Transformation in Carbon Nitride: From Regulated Atomic Configurations to Enhanced Photocatalysis. Catalysts, 2023, 13, 717.	1.6	3
939	On the non-bonding valence band and the electronic properties of poly(triazine imide), a graphitic carbon nitride. Chemical Science, 2023, 14, 6269-6277.	3.7	3

#	Article	IF	Citations
940	Stable and fast oil recovery by environmentally friendly and easy to synthesize pristine graphitic carbon nitride. Clean Technologies and Environmental Policy, 0, , .	2.1	1
941	Comparative Investigation of Doping Cobalt in Graphitic Carbon Nitride with Different Precursors for Peracetic Acid Activation: Decontamination Performance, Catalytic Mechanisms, and Practicability. Industrial & Engineering Chemistry Research, 2023, 62, 6599-6611.	1.8	3
942	Realigning the melon chains in carbon nitride by rubidium ions to promote photo-reductive activities for hydrogen evolution and environmental remediation. Journal of Hazardous Materials, 2023, 453, 131435.	6.5	8
943	Advances in organic semiconductors for photocatalytic hydrogen evolution reaction. , 2023, 1, 333-352.		10
950	Carbon-/boron-/nitrogen-substituted germaneness. , 2023, , 113-172.		0
965	Carbon nitride based materials: more than just a support for single-atom catalysis. Chemical Society Reviews, 2023, 52, 4878-4932.	18.7	31
983	Multifunctional carbon nitride nanoarchitectures for catalysis. Chemical Society Reviews, 2023, 52, 7602-7664.	18.7	9
993	Nanographitic carbon nitride. , 2024, , 443-456.		0
1009	Theoretical Foundations of Photocatalysis. Green Chemistry and Sustainable Technology, 2024, , 61-95.	0.4	0
1022	Crystalline carbon nitrides for photocatalysis. , 2024, 2, 411-447.		1
1025	Physicochemical Characterizations of Functionalized Carbon Nanostructures. , 2024, , 1-48.		0