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## Graphitic carbon nitride based nanocomposites: a review

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1302	Fabrication of porous g-C <sub>3</sub> N <sub>4</sub> /Ag/Fe <sub>2</sub> O <sub>3</sub> composites with enhanced visible light photocatalysis performance. <b>2015</b> , 5, 58738-58745	50
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1299	Rationally designed 1D Ag@AgVO <sub>3</sub> nanowire/graphene/protonated g-C <sub>3</sub> N <sub>4</sub> nanosheet heterojunctions for enhanced photocatalysis via electrostatic self-assembly and photochemical reduction methods. <b>2015</b> , 3, 10119-10126	211
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1229	Preparation and characterization of photoactive antimicrobial graphitic carbon nitride (g-CN) films. <b>2016</b> , 6, 42240-42248	38
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1227	Easily and Synchronously Ameliorating Charge Separation and Band Energy Level in Porous g-C <sub>3</sub> N <sub>4</sub> for Boosting Photooxidation and Photoreduction Ability. <b>2016</b> , 120, 10381-10389	81
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1218	Organic Polymer Dots as Photocatalysts for Visible Light-Driven Hydrogen Generation. <b>2016</b> , 128, 12494-12498	39



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1214	Metal/Graphitic Carbon Nitride Composites: Synthesis, Structures, and Applications. <b>2016</b> , 11, 3305-3328	69
1213	Near-Infrared Light-Mediated Photodynamic Therapy Nanoplatform by the Electrostatic Assembly of Upconversion Nanoparticles with Graphitic Carbon Nitride Quantum Dots. <b>2016</b> , 55, 10267-10277	57
1212	Highly efficient visible-light photocatalytic activity of graphitic carbon nitride prepared from melamine-thiourea molecular composite. <b>2016</b> , 4, 4374-4384	24
1211	The flux growth of single-crystalline CoTiO polyhedral particles and improved visible-light photocatalytic activity of heterostructured CoTiO/g-CN composites. <b>2016</b> , 45, 17748-17758	45
1210	Liquid-Crystalline Phases with Liquid Ammonia: Synthesis of Porous Si <sub>3</sub> N <sub>4</sub> , TiN, VN, and H <sub>2</sub> O sorption of Si <sub>3</sub> N <sub>4</sub> and [email[protected]] <sub>3</sub> N <sub>4</sub> . <b>2016</b> , 28, 7816-7824	6
1209	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> -assisted polycondensation of dicyandiamide for porous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic NO removal. <b>2016</b> , 6, 96334-96338	16
1208	A comparative photophysical and photoelectrochemical study of undoped and 2-aminothiophene-3-carbonitrile-doped carbon nitride. <b>2016</b> , 219, 453-462	2
1207	Structural and optical properties of carbon nitride polymorphs. <b>2016</b> , 68, 84-92	29
1206	Facile fabrication of stable metal-free CQDs/g-C <sub>3</sub> N <sub>4</sub> heterojunctions with efficiently enhanced visible-light photocatalytic activity. <b>2016</b> , 171, 229-237	91
1205	High-quality spinel LiCoTiO <sub>4</sub> single crystals with co-exposed {111} and {110} facets: flux growth, formation mechanism, magnetic behavior and their application in photocatalysis. <b>2016</b> , 18, 6926-6933	9
1204	Novel g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>2</sub> SO <sub>4</sub> nanocomposites: Fast microwave-assisted preparation and enhanced photocatalytic performance towards degradation of organic pollutants under visible light. <b>2016</b> , 482, 165-174	69
1203	A multifunctional material of two-dimensional g-CN/graphene bilayer. <b>2016</b> , 18, 25388-25393	13
1202	Preparation of graphitic carbon nitride with large specific surface area and outstanding N <sub>2</sub> photofixation ability via a dissolve-regrowth process. <b>2016</b> , 99, 51-58	49
1201	Synthesis of a novel CeVO <sub>4</sub> /graphitic C <sub>3</sub> N <sub>4</sub> composite with enhanced visible-light photocatalytic property. <b>2016</b> , 183, 219-222	20
1200	Rational construction of Z-scheme Ag <sub>2</sub> CrO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with enhanced visible-light photocatalytic activity. <b>2016</b> , 390, 357-367	113

1199	Facile Construction of g-C <sub>3</sub> N <sub>4</sub> Nanosheets/TiO <sub>2</sub> Nanotube Arrays as Z-Scheme Photocatalyst with Enhanced Visible-Light Performance. <b>2016</b> , 8, 3064-3073	58
1198	Facile synthesis of in situ phosphorus-doped g-C <sub>3</sub> N <sub>4</sub> with enhanced visible light photocatalytic property for NO purification. <b>2016</b> , 6, 88085-88089	18
1197	Facile synthesis of graphitic carbon nitride/nanostructured Fe <sub>2</sub> O <sub>3</sub> composites and their excellent electrochemical performance for supercapacitor and enzyme-free glucose detection applications. <b>2016</b> , 390, 303-310	75
1196	Photocatalytic Activity of Mesoporous Graphitic Carbon Nitride (mpg-C <sub>3</sub> N <sub>4</sub> ) Towards Organic Chromophores Under UV and VIS Light Illumination. <b>2016</b> , 59, 1305-1318	42
1195	Toward High Performance 2D/2D Hybrid Photocatalyst by Electrostatic Assembly of Rationally Modified Carbon Nitride on Reduced Graphene Oxide. <b>2016</b> , 6, 37318	21
1194	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. <b>2016</b> , 9, 2723-2735	62
1193	Dual visible-light active components containing self-doped Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> 2D-2D heterojunction with enhanced visible-light-driven photocatalytic activity. <b>2016</b> , 511, 64-72	22
1192	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. <b>2016</b> , 6, 7002-7023	271
1191	Fabrication of novel magnetically separable nanocomposites using graphitic carbon nitride, silver phosphate and silver chloride and their applications in photocatalytic removal of different pollutants using visible-light irradiation. <b>2016</b> , 480, 218-231	251
1190	Preparation of porous g-C <sub>3</sub> N <sub>4</sub> /Ag/Cu <sub>2</sub> O: a new composite with enhanced visible-light photocatalytic activity. <b>2016</b> , 30, 932-938	23
1189	NIR-driven graphitic-phase carbon nitride nanosheets for efficient bioimaging and photodynamic therapy. <b>2016</b> , 4, 8000-8008	43
1188	An in situ porous cuprous oxide/nitrogen-rich graphitic carbon nanocomposite derived from a metal-organic framework for visible light driven hydrogen evolution. <b>2016</b> , 4, 18037-18042	22
1187	Highly Efficient Quantum Sieving in Porous Graphene-like Carbon Nitride for Light Isotopes Separation. <b>2016</b> , 6, 19952	39
1186	Ethylene glycol mediated synthesis of SnS quantum dots and their application towards degradation of eosin yellow and brilliant green dyes under solar irradiation. <b>2016</b> , 6, 108290-108297	18
1185	Photo-induced reduction of biomass-derived 5-hydroxymethylfurfural using graphitic carbon nitride supported metal catalysts. <b>2016</b> , 6, 101968-101973	39
1184	Codeposition of AgI and Ag <sub>2</sub> CrO <sub>4</sub> on g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> nanocomposite: Novel magnetically separable visible-light-driven photocatalysts with enhanced activity. <b>2016</b> , 27, 2496-2506	29
1183	Graphene in Photocatalysis: A Review. <b>2016</b> , 12, 6640-6696	605
1182	Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. <b>2016</b> , 7, 12165	417

1181	Facile preparation of novel quaternary g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> /AgI/Bi <sub>2</sub> S <sub>3</sub> nanocomposites: magnetically separable visible-light-driven photocatalysts with significantly enhanced activity. <b>2016</b> , 6, 106572-106583	69
1180	The enhanced photocatalytic performance of Z-scheme two-dimensional/two-dimensional heterojunctions from graphitic carbon nitride nanosheets and titania nanosheets. <b>2016</b> , 478, 263-70	38
1179	A facile fabrication of plasmonic g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>2</sub> WO <sub>4</sub> /Ag ternary heterojunction visible-light photocatalyst. <b>2016</b> , 177, 529-537	62
1178	Active Fe <sub>2</sub> O <sub>3</sub> nanoparticles encapsulated in porous g-C <sub>3</sub> N <sub>4</sub> /graphene sandwich-type nanosheets as a superior anode for high-performance lithium-ion batteries. <b>2016</b> , 4, 10666-10672	82
1177	Graphene-like g-C <sub>3</sub> N <sub>4</sub> nanosheets/sulfur as cathode for lithium-sulfur battery. <b>2016</b> , 210, 829-836	63
1176	Enhancement of catalytic activity and oxidative ability for graphitic carbon nitride. <b>2016</b> , 28, 87-115	155
1175	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. <b>2016</b> , 27, 138-146	303
1174	Long afterglow phosphor driven round-the-clock g-C <sub>3</sub> N <sub>4</sub> photocatalyst. <b>2016</b> , 328, 182-188	25
1173	Used oxygen-doped C <sub>3</sub> N <sub>4</sub> to enhance the photocatalysis performance of O-C <sub>3</sub> N <sub>4</sub> /Ag@AgCl composite photocatalyst. <b>2016</b> , 6, 52067-52075	9
1172	Facile fabrication of ultra-low density, high-surface-area, broadband antireflective carbon aerogels as ultra-black materials. <b>2016</b> , 23, 1217-1225	21
1171	Fabrication of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> hierarchical spheres with reactive {001} TiO <sub>2</sub> crystal facets and its visible-light photocatalytic activity. <b>2016</b> , 41, 3877-3887	69
1170	Fe-species-loaded graphitic carbon nitride with enhanced photocatalytic performance under visible-light irradiation. <b>2016</b> , 420, 159-166	15
1169	Deprotonation of g-C <sub>3</sub> N <sub>4</sub> with Na ions for efficient nonsacrificial water splitting under visible light. <b>2016</b> , 4, 10806-10809	53
1168	Mesoporous Graphitic Carbon Nitride-Based Nanospheres as Visible-Light Active Chemical Warfare Agents Decontaminant. <b>2016</b> , 2, 268-272	35
1167	Oxygen functional groups in graphitic carbon nitride for enhanced photocatalysis. <b>2016</b> , 468, 176-182	91
1166	In situ growth of graphitic carbon nitride films on transparent conducting substrates via a solvothermal route for photoelectrochemical performance. <b>2016</b> , 6, 9916-9922	33
1165	Synthesis of MoS <sub>2</sub> nanosheet supported Z-scheme TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> photocatalysts for the enhanced photocatalytic degradation of organic water pollutants. <b>2016</b> , 6, 10487-10497	80
1164	Surface spin-glass in cobalt ferrite nanoparticles dispersed in silica matrix. <b>2016</b> , 407, 241-246	21

1163	Synthesis and photocatalytic application of visible-light active $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ hybrid nanocomposites. <b>2016</b> , 187, 171-180	157
1162	Template-free method for synthesizing sponge-like graphitic carbon nitride with a large surface area and outstanding nitrogen photofixation ability induced by nitrogen vacancies. <b>2016</b> , 42, 6985-6992	47
1161	Facile synthesis of 3D porous thermally exfoliated g-C <sub>3</sub> N <sub>4</sub> nanosheet with enhanced photocatalytic degradation of organic dye. <b>2016</b> , 468, 211-219	134
1160	Two physical strategies to reinforce a nonmetallic photocatalyst, g-C <sub>3</sub> N <sub>4</sub> : vacuum heating and electron beam irradiation. <b>2016</b> , 6, 14002-14008	7
1159	Surface activated carbon nitride nanosheets with optimized electro-optical properties for highly efficient photocatalytic hydrogen production. <b>2016</b> , 4, 2445-2452	105
1158	A photoactive bimetallic framework for direct aminoformylation of nitroarenes. <b>2016</b> , 18, 1019-1022	28
1157	Disinfection capability of Ag/g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts under UV and visible light illumination. <b>2016</b> , 183, 86-95	110
1156	A pure organic heterostructure of $\text{[Co}_2\text{]}^{\text{dimeric iron(III) porphyrin}}$ and graphitic-C <sub>3</sub> N <sub>4</sub> for solar H <sub>2</sub> reduction from water. <b>2016</b> , 4, 290-296	100
1155	Synthesis and characterization of Cu-doped polymeric carbon nitride. <b>2016</b> , 24, 171-180	10
1154	Towards the hydrogen production by photocatalysis. <b>2016</b> , 518, 48-59	107
1153	Visible-light-driven high photocatalytic activities of Cu/g-C <sub>3</sub> N <sub>4</sub> photocatalysts for hydrogen production. <b>2016</b> , 6, 34633-34640	50
1152	Fabrication and Enhanced Photoelectrochemical Performance of MoS <sub>2</sub> /S-Doped g-C <sub>3</sub> N <sub>4</sub> Heterojunction Film. <b>2016</b> , 8, 5280-9	216
1151	Construction of carbon quantum dots/proton-functionalized graphitic carbon nitride nanocomposite via electrostatic self-assembly strategy and its application. <b>2016</b> , 370, 514-521	74
1150	Graphitic Carbon Nitride-Titanium Dioxide Nanocomposite for Photocatalytic Hydrogen Production under Visible Light. <b>2016</b> , 14, 851-858	14
1149	Facile electrochemical deposition of Cu <sub>7</sub> Te <sub>4</sub> thin films with visible-light driven photocatalytic activity and thermoelectric performance. <b>2016</b> , 6, 22803-22811	37
1148	Effect of phosphorus doping on electronic structure and photocatalytic performance of g-C <sub>3</sub> N <sub>4</sub> : Insights from hybrid density functional calculation. <b>2016</b> , 672, 271-276	89
1147	Novel ternary g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> /Ag <sub>2</sub> CrO <sub>4</sub> nanocomposites: magnetically separable and visible-light-driven photocatalysts for degradation of water pollutants. <b>2016</b> , 415, 122-130	140
1146	Synergetic effect of TiO <sub>2</sub> as co-catalyst for enhanced visible light photocatalytic reduction of Cr(VI) on MoSe <sub>2</sub> . <b>2016</b> , 521, 19-25	44

1145	Ag <sub>2</sub> CrO <sub>4</sub> nanoparticles loaded on two-dimensional large surface area graphite-like carbon nitride sheets: simple synthesis and excellent photocatalytic performance. <b>2016</b> , 45, 5815-24	42
1144	Modulating photogenerated electron transfer with selectively exposed CoMo facets on a novel amorphous g-C <sub>3</sub> N <sub>4</sub> /CoxMo <sub>1-x</sub> S <sub>2</sub> photocatalyst. <b>2016</b> , 6, 23709-23717	35
1143	Controlled synthesis of ordered mesoporous g-C <sub>3</sub> N <sub>4</sub> with a confined space effect on its photocatalytic activity. <b>2016</b> , 46, 59-68	40
1142	Mechanistic understanding of ternary Ag/AgCl@La(OH) <sub>3</sub> nanorods as novel visible light plasmonic photocatalysts. <b>2016</b> , 6, 5003-5010	35
1141	Ternary magnetic g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> /AgI nanocomposites: Novel recyclable photocatalysts with enhanced activity in degradation of different pollutants under visible light. <b>2016</b> , 174, 59-69	60
1140	Construction of a 2D/2D g-C <sub>3</sub> N <sub>4</sub> /rGO hybrid heterojunction catalyst with outstanding charge separation ability and nitrogen photofixation performance via a surface protonation process. <b>2016</b> , 6, 25695-25702	69
1139	Isotype heterostructure of bulk and nanosheets of graphitic carbon nitride for efficient visible light photodegradation of methylene blue. <b>2016</b> , 6, 24976-24984	48
1138	Bridging the g-C <sub>3</sub> N <sub>4</sub> Interlayers for Enhanced Photocatalysis. <b>2016</b> , 6, 2462-2472	624
1137	Carbon-based two-dimensional layered materials for photocatalytic CO <sub>2</sub> reduction to solar fuels. <b>2016</b> , 3, 24-35	146
1136	Constructing graphite-like carbon nitride modified hierarchical yolk-shell TiO <sub>2</sub> spheres for water pollution treatment and hydrogen production. <b>2016</b> , 4, 1806-1818	200
1135	Facile electrosynthesis and photoelectric conversion of Ag nanodendrites wrapped with MoS <sub>2</sub> nanosheets. <b>2016</b> , 188, 917-926	9
1134	Preparation of protonated, two-dimensional graphitic carbon nitride nanosheets by exfoliation, and their application as a fluorescent probe for trace analysis of copper(II). <b>2016</b> , 183, 773-780	30
1133	Template-free synthesis of 2D porous ultrathin nonmetal-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets with highly efficient photocatalytic H <sub>2</sub> evolution from water under visible light. <b>2016</b> , 187, 144-153	324
1132	Synthesis of MoS <sub>2</sub> nanosheets loaded ZnO/g-C <sub>3</sub> N <sub>4</sub> nanocomposites for enhanced photocatalytic applications. <b>2016</b> , 289, 306-318	94
1131	Preparation of g-C <sub>3</sub> N <sub>4</sub> /ZnMoCdS hybrid heterojunction catalyst with outstanding nitrogen photofixation performance under visible light via hydrothermal post-treatment. <b>2016</b> , 45, 3497-505	71
1130	Phosphorous-modified bulk graphitic carbon nitride: Facile preparation and application as an acid-base bifunctional and efficient catalyst for CO <sub>2</sub> cycloaddition with epoxides. <b>2016</b> , 100, 81-89	145
1129	Mesoporous graphitic carbon nitride and carbon-TiO <sub>2</sub> hybrid composite photocatalysts with enhanced photocatalytic activity under visible light irradiation. <b>2016</b> , 4, 797-807	20
1128	Synthesis of a SrFeO <sub>3-x</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction with improved visible-light photocatalytic activities in chloramphenicol and crystal violet degradation. <b>2016</b> , 6, 2323-2336	81

1127	Interface Effects in Sunlight-Driven Ag/g-C <sub>3</sub> N <sub>4</sub> Composite Catalysts: Study of the Toluene Photodegradation Quantum Efficiency. <b>2016</b> , 8, 2617-27	121
1126	Temperature-Dependent Photoluminescence of g-C <sub>3</sub> N <sub>4</sub> : Implication for Temperature Sensing. <b>2016</b> , 8, 2181-6	107
1125	Visible light mediated upgrading of biomass to biofuel. <b>2016</b> , 18, 1327-1331	53
1124	Metal-free melem/g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalysts for water treatment. <b>2016</b> , 464, 10-7	58
1123	S-doped mesoporous nanocomposite of HTiNbO <sub>5</sub> nanosheets and TiO <sub>2</sub> nanoparticles with enhanced visible light photocatalytic activity. <b>2016</b> , 18, 801-10	35
1122	Magnetically separable ternary g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> /BiOI nanocomposites: Novel visible-light-driven photocatalysts based on graphitic carbon nitride. <b>2016</b> , 465, 83-92	221
1121	Enhanced visible light photocatalytic activity of W-doped porous g-C <sub>3</sub> N <sub>4</sub> and effect of H <sub>2</sub> O <sub>2</sub> . <b>2016</b> , 164, 127-131	49
1120	Simultaneous Pd <sup>2+</sup> doping and Pd metal deposition on (BiO) <sub>2</sub> CO <sub>3</sub> microspheres for enhanced and stable visible light photocatalysis. <b>2016</b> , 510, 161-170	19
1119	Carbon nitride nanowires/nanofibers: A novel template-free synthesis from a cyanuric chloride/helamine precursor towards enhanced adsorption and visible-light photocatalytic performance. <b>2016</b> , 42, 4158-4170	49
1118	Preparation and visible-light photocatalytic performances of g-C <sub>3</sub> N <sub>4</sub> surface hybridized with a small amount of CdS nanoparticles. <b>2016</b> , 51, 893-902	31
1117	Constructing carbon-nitride-based copolymers via Schiff base chemistry for visible-light photocatalytic hydrogen evolution. <b>2016</b> , 182, 68-73	123
1116	Can environmental pharmaceuticals be photocatalytically degraded and completely mineralized in water using g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> under visible light irradiation? Implications of persistent toxic intermediates. <b>2016</b> , 180, 726-732	118
1115	Mesoporous graphitic carbon nitride materials: synthesis and modifications. <b>2016</b> , 42, 3979-3998	76
1114	Construction of novel ternary component photocatalyst Sr <sub>0.25</sub> H <sub>1.5</sub> Ta <sub>2</sub> O <sub>6</sub> ·H <sub>2</sub> O coupled with g-C <sub>3</sub> N <sub>4</sub> and Ag toward efficient visible light photocatalytic activity for environmental remediation. <b>2016</b> , 181, 197-209	57
1113	Design of Cu-Cu <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> nanocomponent photocatalysts for hydrogen evolution under visible light irradiation using water-soluble Erythrosin B dye sensitization. <b>2017</b> , 391, 404-414	163
1112	Graphitic carbon nitride nanosheet for photocatalytic hydrogen production: The impact of morphology and element composition. <b>2017</b> , 391, 369-375	74
1111	Graphitic carbon nitride nanodots: As reductant for the synthesis of silver nanoparticles and its biothiols biosensing application. <b>2017</b> , 89, 411-416	57
1110	A review on g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts. <b>2017</b> , 391, 72-123	1687

1109	n/n junctioned g-C3N4 for enhanced photocatalytic H2 generation. <b>2017</b> , 1, 317-323	88
1108	Photo-driven synthesis of polymer-coated platinized ZnO nanoparticles with enhanced photoelectrochemical charge transportation. <b>2017</b> , 5, 4568-4575	14
1107	Metal-free hybrids of graphitic carbon nitride and nanodiamonds for photoelectrochemical and photocatalytic applications. <b>2017</b> , 493, 275-280	28
1106	Symbiotic Interaction of Amalgamated Photocatalysts with Improved Day Light Utilisation and Charge Separation. <b>2017</b> , 2, 84-89	10
1105	Hydrothermal synthesis of CdS/CoWO <sub>4</sub> heterojunctions with enhanced visible light properties toward organic pollutants degradation. <b>2017</b> , 43, 5388-5395	31
1104	Highly enhanced photocatalytic degradation of methylene blue over the indirect all-solid-state Z-scheme g-C3N4-RGO-TiO <sub>2</sub> nanoheterojunctions. <b>2017</b> , 405, 60-70	276
1103	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. <b>2017</b> , 2, 1398-1408	10
1102	Ultrathin g-C3N4 nanosheets with an extended visible-light-responsive range for significant enhancement of photocatalysis. <b>2017</b> , 7, 2333-2341	86
1101	Graphitic-C <sub>3</sub> N <sub>4</sub> modified ZnAl-layered double hydroxides for enhanced photocatalytic removal of organic dye. <b>2017</b> , 138, 107-113	51
1100	One step synthesis of oxygen doped porous graphitic carbon nitride with remarkable improvement of photo-oxidation activity: Role of oxygen on visible light photocatalytic activity. <b>2017</b> , 206, 319-327	262
1099	Facile Soft-Templated Synthesis of High-Surface Area and Highly Porous Carbon Nitrides. <b>2017</b> , 29, 1496-1506	71
1098	Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. <b>2017</b> , 7, 1602251	174
1097	Graphitic C3N4 based noble-metal-free photocatalyst systems: A review. <b>2017</b> , 206, 556-588	451
1096	Enhanced visible light photocatalytic activity in SnO <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> core-shell structures. <b>2017</b> , 218, 23-30	50
1095	Layered Spongy-like O-Doped g-C3N4: An Efficient Non-Metal Oxygen Reduction Catalyst for Alkaline Fuel Cells. <b>2017</b> , 164, F354-F363	24
1094	Sulfur-Modified Graphitic Carbon Nitride Nanostructures as an Efficient Electrocatalyst for Water Oxidation. <b>2017</b> , 13, 1603893	38
1093	Pt quantum dots deposited on N-doped (BiO) <sub>2</sub> CO <sub>3</sub> : enhanced visible light photocatalytic NO removal and reaction pathway. <b>2017</b> , 7, 1324-1332	40
1092	In <sub>2</sub> S <sub>3</sub> nanoparticles dispersed on g-C3N4 nanosheets: role of heterojunctions in photoinduced charge transfer and photoelectrochemical and photocatalytic performance. <b>2017</b> , 52, 7077-7090	33

1091	One-step exfoliation and fluorination of g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced photocatalytic activities. <b>2017</b> , 41, 3061-3067	37
1090	WO/g-CN composites: one-pot preparation and enhanced photocatalytic H <sub>2</sub> production under visible-light irradiation. <b>2017</b> , 28, 164002	64
1089	Mimicking Horseradish Peroxidase Functions Using Cu-Modified Carbon Nitride Nanoparticles or Cu-Modified Carbon Dots as Heterogeneous Catalysts. <b>2017</b> , 11, 3247-3253	226
1088	A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for Photoredox Catalysis. <b>2017</b> , 56, 3992-3996	293
1087	A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for Photoredox Catalysis. <b>2017</b> , 129, 4050-4054	77
1086	In-situ growth of mesoporous Nb <sub>2</sub> O <sub>5</sub> microspheres on g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhanced photocatalytic H <sub>2</sub> evolution under visible light irradiation. <b>2017</b> , 42, 6683-6694	35
1085	Facile synthesis of CdS/MnWO <sub>4</sub> heterojunction with enhanced visible-light-driven photocatalytic activity and mechanism investigation. <b>2017</b> , 520, 138-145	41
1084	Challenges in calculating the bandgap of triazine-based carbon nitride structures. <b>2017</b> , 5, 5115-5122	30
1083	Preparation and Photocatalytic Behavior of Carbon-Nanodots/Graphitic Carbon Nitride Composite Photocatalyst. <b>2017</b> , 164, H211-H214	11
1082	Influence of nanoparticles on the interfacial properties of fiber-reinforced-epoxy composites. <b>2017</b> , 98, 1-8	55
1081	Efficient photocatalysis of organic vapors using graphitic carbon nitride and iron dual-coupled ZnO nanocomposites. <b>2017</b> , 74, 211-217	4
1080	C <sub>3</sub> N <sub>4</sub> anchored ZIF 8 composites: photo-regenerable, high capacity sorbents as adsorptive photocatalysts for the effective removal of tetracycline from water. <b>2017</b> , 7, 2118-2128	84
1079	Spectral and photophysical properties of size-selected ZnO nanocrystals coupled to single-layer carbon nitride sheets. <b>2017</b> , 2, 38-48	7
1078	Encapsulating nano rods of copperBiphenylamines framework on g-C <sub>3</sub> N <sub>4</sub> photocatalysts for visible-light-driven organic dyes degradation: promoting charge separation efficiency. <b>2017</b> , 7, 3017-3026	37
1077	Facile synthesis of g-C <sub>3</sub> N <sub>4</sub> nanosheets loaded with WO <sub>3</sub> nanoparticles with enhanced photocatalytic performance under visible light irradiation. <b>2017</b> , 7, 24097-24104	72
1076	Determining the Charge-Transfer Direction in a p-n Heterojunction BiOCl/g-C <sub>3</sub> N <sub>4</sub> Photocatalyst by Ultrafast Spectroscopy. <b>2017</b> , 1, 350-354	15
1075	Minimizing the Heat Effect of Photodynamic Therapy Based on Inorganic Nanocomposites Mediated by 808 nm Near-Infrared Light. <b>2017</b> , 13, 1700038	70
1074	Preparation and characterization of nanocomposite of graphitic carbon nitride and TiO <sub>2</sub> as a porous support for nano catalyst for desulfurization process. <b>2017</b> , 21, 943-953	2



1073	Fabrication of a composite of platinum, N-g-C <sub>3</sub> N <sub>4</sub> and Ketjen Black for photo-electrochemical methanol oxidation. <b>2017</b> , 52, 8444-8454	7
1072	Carbon nitride nanosheets as visible light photocatalytic initiators and crosslinkers for hydrogels with thermoresponsive turbidity. <b>2017</b> , 5, 8933-8938	62
1071	Wide spectrum responsive CdS/NiTiO <sub>3</sub> /CoS with superior photocatalytic performance for hydrogen evolution. <b>2017</b> , 7, 2524-2530	39
1070	Highly efficient visible light induced photocatalytic activity of a novel in situ synthesized conjugated microporous poly(benzothiadiazole)/C <sub>3</sub> N <sub>4</sub> composite. <b>2017</b> , 7, 418-426	24
1069	In Situ Hydrothermal Construction of Direct Solid-State Nano-Z-Scheme BiVO <sub>4</sub> /Pyridine-Doped g-CN Photocatalyst with Efficient Visible-Light-Induced Photocatalytic Degradation of Phenol and Dyes. <b>2017</b> , 2, 2728-2739	59
1068	Facile preparation of protonated hexaniobate nanosheets and its enhanced photocatalytic activity. <b>2017</b> , 28, 235702	2
1067	LaTiON-LaCrO: continuous solid solutions towards enhanced photocatalytic H evolution under visible-light irradiation. <b>2017</b> , 46, 10685-10693	3
1066	g-C <sub>3</sub> N <sub>4</sub> /Nb <sub>2</sub> O <sub>5</sub> heterostructures tailored by sonochemical synthesis: Enhanced photocatalytic performance in oxidation of emerging pollutants driven by visible radiation. <b>2017</b> , 216, 70-79	83
1065	Electrochemical heavy metal detection, photocatalytic, photoluminescence, biodiesel production and antibacterial activities of Ag/ZnO nanomaterial. <b>2017</b> , 94, 54-63	153
1064	Recent advances of conductive nanocomposites in printed and flexible electronics. <b>2017</b> , 26, 083001	52
1063	A novel double visible light active Z-scheme AgI/Ag/I-(BiO) <sub>2</sub> CO <sub>3</sub> composite: Automatic formation of Ag bridge in the photocatalytic process. <b>2017</b> , 94, 291-297	26
1062	In Situ Construction of Globe-like Carbon Nitride as a Self-Cocatalyst Modified Tree-like Carbon Nitride for Drastic Improvement in Visible-Light Photocatalytic Hydrogen Evolution. <b>2017</b> , 9, 4035-4042	17
1061	Enhanced visible light photocatalytic water reduction from a g-C <sub>3</sub> N <sub>4</sub> /SrTa <sub>2</sub> O <sub>6</sub> heterojunction. <b>2017</b> , 217, 448-458	50
1060	Fabrication of two-dimensional porous CdS nanoplates decorated with C <sub>3</sub> N <sub>4</sub> nanosheets for highly efficient photocatalytic hydrogen production from water splitting. <b>2017</b> , 99, 79-82	29
1059	Preparation of porous CuO nanosheet-liked structure (CuO-NS) using C <sub>3</sub> N <sub>4</sub> template with enhanced visible-light photoactivity in degradation of chlortetracycline. <b>2017</b> , 346, 168-176	12
1058	Recent Advances of Graphitic Carbon Nitride-Based Structures and Applications in Catalyst, Sensing, Imaging, and LEDs. <b>2017</b> , 9, 47	235
1057	A binary polymer composite of graphitic carbon nitride and poly(diphenylbutadiyne) with enhanced visible light photocatalytic activity. <b>2017</b> , 7, 27377-27383	32
1056	Core-shell structured AgBr incorporated g-C <sub>3</sub> N <sub>4</sub> nanocomposites with enhanced photocatalytic activity and stability. <b>2017</b> , 32, 675-685	11

1055	Enhanced CO <sub>2</sub> photocatalytic reduction on alkali-decorated graphitic carbon nitride. <b>2017</b> , 216, 146-155	88
1054	S-C <sub>3</sub> N <sub>4</sub> Quantum Dot Decorated ZnO Nanorods to Improve Their Photoelectrochemical Performance. <b>2017</b> , 12, 1750064	12
1053	Easy synthesis of TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure photocatalyst with large surface area and excellent photocatalytic activity. <b>2017</b> , 43, S664-S670	27
1052	Syntheses of asymmetric zinc porphyrins bearing different pseudo-pyridine substituents and their photosensitization for visible-light-driven H <sub>2</sub> production activity. <b>2017</b> , 46, 8219-8228	28
1051	Rationally designed Bi@BiOCl/g-C <sub>3</sub> N <sub>4</sub> heterostructure with exceptional solar-driven photocatalytic activity. <b>2017</b> , 434, 69-79	27
1050	Doping of graphitic carbon nitride for photocatalysis: A review. <b>2017</b> , 217, 388-406	802
1049	Tailoring the framework composition of carbon nitride to improve the catalytic efficiency of the stabilised palladium atoms. <b>2017</b> , 5, 16393-16403	57
1048	Layer Stacked Iodine and Phosphorus Co-doped C <sub>3</sub> N <sub>4</sub> for Enhanced Visible-Light Photocatalytic Hydrogen Evolution. <b>2017</b> , 9, 4083-4089	31
1047	Kinetics and mechanism of enhanced photocatalytic activity employing ZnS nanospheres/graphene-like C <sub>3</sub> N <sub>4</sub> . <b>2017</b> , 438, 103-112	16
1046	Synthesis of g-C <sub>3</sub> N <sub>4</sub> -based NaYF <sub>4</sub> :Yb,Tm@TiO <sub>2</sub> ternary composite with enhanced Vis/NIR-driven photocatalytic activities. <b>2017</b> , 410, 383-392	25
1045	Effect of sodium doping on the structure and enhanced photocatalytic hydrogen evolution performance of graphitic carbon nitride. <b>2017</b> , 433, 128-135	29
1044	Constructing Multifunctional Metallic Ni Interface Layers in the g-CN Nanosheets/Amorphous NiS Heterojunctions for Efficient Photocatalytic H <sub>2</sub> Generation. <b>2017</b> , 9, 14031-14042	256
1043	Novel magnetically separable g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> /Ag <sub>3</sub> PO <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> nanocomposites: Visible-light-driven photocatalysts with highly enhanced activity. <b>2017</b> , 28, 1540-1553	57
1042	Novel g-CN/CoO Nanocomposites with Significantly Enhanced Visible-Light Photocatalytic Activity for H <sub>2</sub> Evolution. <b>2017</b> , 9, 12427-12435	212
1041	A facile mechanochemical route to a covalently bonded graphitic carbon nitride (g-CN) and fullerene hybrid toward enhanced visible light photocatalytic hydrogen production. <i>Nanoscale</i> , <b>2017</b> , 9, 5615-5623	7-7 70
1040	Carbon dots and Ag nanoparticles decorated g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhanced organic pollutants degradation under sunlight irradiation. <b>2017</b> , 342, 42-52	62
1039	Heterostructured BiOI@La(OH) <sub>3</sub> nanorods with enhanced visible light photocatalytic NO removal. <b>2017</b> , 38, 217-226	46
1038	Enriching CO <sub>2</sub> Activation Sites on Graphitic Carbon Nitride with Simultaneous Introduction of Electron-Transfer Promoters for Superior Photocatalytic CO <sub>2</sub> -to-Fuel Conversion. <b>2017</b> , 1, 1700003	50

1037	Polymeric Carbon Nitride-Based Composites for Visible-Light-Driven Photocatalytic Hydrogen Generation. <b>2017</b> , 579-621	6
1036	Solvent-assisted synthesis of porous g-C <sub>3</sub> N <sub>4</sub> with efficient visible-light photocatalytic performance for NO removal. <b>2017</b> , 38, 372-378	54
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1032	A ternary photocatalyst of graphitic carbon nitride/cadmium sulfide/titania based on the electrostatic assembly using two-dimensional semiconductor nanosheets. <b>2017</b> , 491, 367-374	25
1031	A visible-light-driven heterojunction for enhanced photocatalytic water splitting over Ta <sub>2</sub> O <sub>5</sub> modified g-C <sub>3</sub> N <sub>4</sub> photocatalyst. <b>2017</b> , 42, 6738-6745	104
1030	Thermo-driven catalytic degradation of organic dyes by graphitic carbon nitride with hydrogen peroxide. <b>2017</b> , 308, 114-122	7
1029	Monodisperse bismuth nanoparticles decorated graphitic carbon nitride: Enhanced visible-light-response photocatalytic NO removal and reaction pathway. <b>2017</b> , 205, 532-540	135
1028	Single layer two-dimensional O-g-C <sub>3</sub> N <sub>4</sub> : An efficient photocatalyst for improved molecular oxygen activation ability. <b>2017</b> , 214, 1600704	13
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1026	Synthesis of Pd/Au bimetallic nanoparticle-loaded ultrathin graphitic carbon nitride nanosheets for highly efficient catalytic reduction of p-nitrophenol. <b>2017</b> , 490, 834-843	57
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1022	Sensitive electrochemical detection of tetrabromobisphenol A based on poly(diallyldimethylammonium chloride) modified graphitic carbon nitride-ionic liquid doped carbon paste electrode. <b>2017</b> , 254, 214-222	13
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1020	Stability and Performance of Sulfide-, Nitride-, and Phosphide-Based Electrodes for Photocatalytic Solar Water Splitting. <b>2017</b> , 8, 5228-5238	76

1019	Acid-Exfoliated g-C <sub>3</sub> N <sub>4</sub> Nanosheets Coated Silver Nanoparticles with Tunable Loading: An Efficient Catalyst for Visible Light Photocatalytic Reaction. <b>2017</b> , 2, 9947-9952		9
1018	Supramolecular Synthesis of Multifunctional Holey Carbon Nitride Nanosheet with High-Efficiency Photocatalytic Performance. <b>2017</b> , 5, 1700536		38
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1016	Graphene-based antimicrobial nanomaterials: rational design and applications for water disinfection and microbial control. <b>2017</b> , 4, 2248-2266		53
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1014	Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based photocatalysts for solar hydrogen generation: recent advances and future development directions. <b>2017</b> , 5, 23406-23433		358
1013	Enhance photocatalysis performance and mechanism of CdS and Ag synergistic co-catalyst supported on mesoporous g-C <sub>3</sub> N <sub>4</sub> nanosheets under visible-light irradiation. <b>2017</b> , 5, 5358-5368		23
1012	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. <i>Nanoscale</i> , <b>2017</b> , 9, 16586-16590	7-7	18
1011	Noble metal-free g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> /CNT ternary nanocomposite with enhanced photocatalytic performance under visible-light irradiation via multi-step charge transfer process. <b>2017</b> , 158, 132-139		66
1010	Enhanced Separation Efficiency of PtNix/g-C <sub>3</sub> N <sub>4</sub> for Photocatalytic Hydrogen Production. <b>2017</b> , 9, 3779-3785		38
1009	Precisely tunable thickness of graphitic carbon nitride nanosheets for visible-light-driven photocatalytic hydrogen evolution. <i>Nanoscale</i> , <b>2017</b> , 9, 14103-14110	7-7	72
1008	Sulfur-Doped Mesoporous Carbon Nitride Decorated with Cu Particles for Efficient Photocatalytic Degradation under Visible-Light Irradiation. <b>2017</b> , 121, 19239-19253		49
1007	Synthesis of 3D porous MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction as a high efficiency photocatalyst for boosting H <sub>2</sub> evolution activity. <b>2017</b> , 7, 40727-40733		31
1006	Facile Construction of Metal-Free g-C <sub>3</sub> N <sub>4</sub> Isotype Heterojunction with Highly Enhanced Visible-light Photocatalytic Performance. <b>2017</b> , 2, 6970-6978		6
1005	In-situ synthesis of novel plate-like Co(OH) <sub>2</sub> co-catalyst decorated TiO <sub>2</sub> nanosheets with efficient photocatalytic H <sub>2</sub> evolution activity. <b>2017</b> , 42, 22877-22886		37
1004	Self-Assembled Peptide-Carbon Nitride Hydrogel as a Light-Responsive Scaffold Material. <b>2017</b> , 18, 3551-3556		47
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1002	Reduced Oxygenated g-C <sub>3</sub> N <sub>4</sub> with Abundant Nitrogen Vacancies for Visible-Light Photocatalytic Applications. <b>2017</b> , 23, 15466-15473		42

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994	Promotion of the excited electron transfer over Ni- and Co -sulfide co-doped g-CN photocatalyst (g-CN/NiCoS) for hydrogen Production under visible light irradiation. <b>2017</b> , 7, 7710	25
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986	Sustainable nano-hybrids of magnetic biochar supported g-C3N4/FeVO4 for solar powered degradation of noxious pollutants- Synergism of adsorption, photocatalysis & photo-ozonation. <b>2017</b> , 165, 431-451	176
985	Enhanced visible light photocatalytic hydrogen evolution over porphyrin hybridized graphitic carbon nitride. <b>2017</b> , 506, 58-65	43
984	Aromatic ring substituted g-C3N4 for enhanced photocatalytic hydrogen evolution. <b>2017</b> , 5, 17199-17203	74

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978	Facile one-pot synthesis of cerium oxide/sulfur-doped graphitic carbon nitride (g-CN) as efficient nanophotocatalysts under visible light irradiation. <b>2017</b> , 507, 59-73	88
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970	Decoration of MoS <sub>2</sub> on g-C <sub>3</sub> N <sub>4</sub> surface for efficient hydrogen evolution reaction. <b>2017</b> , 258, 1273-1283	49
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934	Flux Growth of Highly Crystalline Photocatalytic BaTiO3 Particle Layers on Porous Titanium Sponge Substrate and Insights into the Formation Mechanism. <b>2017</b> , 239, 012013	0
933	Selective adsorption of thiocyanate anions on Ag-modified g-C 3 N 4 for enhanced photocatalytic hydrogen evolution. <b>2017</b> , 38, 1990-1998	110
932	Metal/semiconductor core/shell nanostructures for environmental remediation. <b>2017</b> , 79-98	1
931	Direct Growth of CuO Nanorods on Graphitic Carbon Nitride with Synergistic Effect on Thermal Decomposition of Ammonium Perchlorate. <b>2017</b> , 10,	21
930	2D/2D Graphitic Carbon Nitride (g-C3N4) Heterojunction Nanocomposites for Photocatalysis: Why Does Face-to-Face Interface Matter?. <b>2017</b> , 4,	178



929	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. <b>2017</b> , 8, 1571-1600	94
928	Anisotropic carrier mobility in single- and bi-layer C <sub>3</sub> N sheets. <b>2018</b> , 537, 314-319	26
927	The effect of metallic Fe(ii) and nonmetallic S codoping on the photocatalytic performance of graphitic carbon nitride.. <b>2018</b> , 8, 7558-7568	17
926	Synthesis, characterization and photodegradation activity of graphitic C <sub>3</sub> N <sub>4</sub> -SrTiO <sub>3</sub> nanocomposites. <b>2018</b> , 356, 425-439	12
925	Novel ternary g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>3</sub> VO <sub>4</sub> /AgBr nanocomposites with excellent visible-light-driven photocatalytic performance for environmental applications. <b>2018</b> , 78, 133-143	27
924	Fluorescein-sensitized Au/g-C <sub>3</sub> N <sub>4</sub> nanocomposite for enhanced photocatalytic hydrogen evolution under visible light. <b>2018</b> , 102, 362-368	39
923	Visible light active 2D C <sub>3</sub> N <sub>4</sub> -CdS hetero-junction photocatalyst for effective removal of azo dye by photodegradation. <b>2018</b> , 5, 036202	7
922	Mesoporous Co <sub>3</sub> O <sub>4</sub> anchored on the graphitic carbon nitride for enhanced performance supercapacitor. <b>2018</b> , 265, 372-378	48
921	A Facile Construction of Porous g-C <sub>3</sub> N <sub>4</sub> /poly(3,4-ethylenedioxythiophene) Composite Modified Electrode for Ascorbic Acid Determination. <b>2018</b> , 165, B118-B126	10
920	Novel ternary Ag/CeVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite as a highly efficient visible-light-driven photocatalyst. <b>2018</b> , 7, 50-57	11
919	First-principles calculation of geometric, electronic structures and optical properties of Lindqvist-type polyoxometalates functionalized carbon nitride. <b>2018</b> , 148, 260-265	3
918	Highly enhanced visible-light photocatalytic NO <sub>x</sub> purification and conversion pathway on self-structurally modified g-C <sub>3</sub> N <sub>4</sub> nanosheets. <b>2018</b> , 63, 609-620	51
917	In-situ polymerization for PPy/g-C <sub>3</sub> N <sub>4</sub> composites with enhanced visible light photocatalytic performance. <b>2018</b> , 39, 831-840	35
916	Photodegradation of methyl red under visible light by mesoporous carbon nitride. <b>2018</b> , 121, 022030	3
915	Graphene quantum dots modified Ag <sub>3</sub> PO <sub>4</sub> for facile synthesis and the enhanced photocatalytic performance. <b>2018</b> , 6, 255-269	7
914	One-pot annealing preparation of Na-doped graphitic carbon nitride from melamine and organometallic sodium salt for enhanced photocatalytic H <sub>2</sub> evolution. <b>2018</b> , 43, 13953-13961	40
913	Photocatalytic performance of TiO <sub>2</sub> nanocrystals with/without oxygen defects. <b>2018</b> , 39, 867-875	78
912	Ruthenium(II)-Bipyridine/NanoC <sub>3</sub> N <sub>4</sub> Hybrids: Tunable Photochemical Properties by Using Exchangeable Alkali Metal Cations. <b>2018</b> , 13, 1348-1356	6

911	Gold/monolayer graphitic carbon nitride plasmonic photocatalyst for ultrafast electron transfer in solar-to-hydrogen energy conversion. <b>2018</b> , 39, 760-770	30
910	Novel magnetically separable Fe <sub>3</sub> O <sub>4</sub> /WSe <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> photocatalysts: synthesis and photocatalytic performance under visible-light irradiation. <b>2018</b> , 42, 8914-8923	10
909	KCl-mediated dual electronic channels in layered g-C <sub>3</sub> N <sub>4</sub> for enhanced visible light photocatalytic NO removal. <i>Nanoscale</i> , <b>2018</b> , 10, 8066-8074	7-7 101
908	Enhanced visible light photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> assisted by hydrogen peroxide. <b>2018</b> , 5, 046203	2
907	Nitrogen doped graphene oxide modified WSe <sub>2</sub> nanorods for visible light photocatalysis. <b>2018</b> , 750, 499-506	14
906	Promoted Photocatalytic Hydrogen Evolution by Molecular Ring-Substituting Doping and Regulation of Charge Carrier Migration in Graphitic Carbon Nitride. <b>2018</b> , 2, 1800058	24
905	Enhanced photocatalytic activity of direct Z-scheme Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> composites via facile one-step fabrication. <b>2018</b> , 33, 1391-1400	41
904	Photocatalytic Cleavage of C-C Bond in Lignin Models under Visible Light on Mesoporous Graphitic Carbon Nitride through $\pi$ -Stacking Interaction. <b>2018</b> , 8, 4761-4771	97
903	Construction of Ag/g-C <sub>3</sub> N <sub>4</sub> photocatalysts with visible-light photocatalytic activity for sulfamethoxazole degradation. <b>2018</b> , 341, 547-555	103
902	Petal-like CdS nanostructures coated with exfoliated sulfur-doped carbon nitride via chemically activated chain termination for enhanced visible-light-driven photocatalytic water purification and H <sub>2</sub> generation. <b>2018</b> , 229, 181-191	123
901	Effect of sacrificial agents on the dispersion of metal cocatalysts for photocatalytic hydrogen evolution. <b>2018</b> , 442, 361-367	18
900	In-situ synthesis of direct solid-state dual Z-scheme WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> O <sub>3</sub> photocatalyst for the degradation of refractory pollutant. <b>2018</b> , 227, 376-385	330
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897	Nickel doped graphitic carbon nitride nanosheets and its application for dye degradation by chemical catalysis. <b>2018</b> , 101, 291-304	42
896	Path Towards Future Research. <b>2018</b> , 125-144	
895	In situ fabrication of reduced graphene oxide/mesoporous g-C <sub>3</sub> N <sub>4</sub> nanosheets with excellent visible light activity. <b>2018</b> , 6, 890-897	13
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893	One-step preparation of a novel SrCO/g-CN nano-composite and its application in selective adsorption of crystal violet.. <b>2018</b> , 8, 6315-6325	38
892	Ordered layered N-doped KTiNbO5/g-C3N4 heterojunction with enhanced visible light photocatalytic activity. <b>2018</b> , 228, 54-63	96
891	Enhanced Solar Light Absorption and Photoelectrochemical Conversion Using TiN Nanoparticle-Incorporated CN-C Dot Sheets. <b>2018</b> , 10, 2460-2468	46
890	Molecular structure design of conjugated microporous poly(dibenzo[b,d]thiophene 5,5-dioxide) for optimized photocatalytic NO removal. <b>2018</b> , 357, 188-194	17
889	Sulfur (VI) modified graphite carbon nitride nanosheets with chrysanthemum-like structure and enhanced photocatalytic activity. <b>2018</b> , 693, 1-7	10
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879	Novel ternary g-C3N4/Fe3O4/MnWO4 nanocomposites: Synthesis, characterization, and visible-light photocatalytic performance for environmental purposes. <b>2018</b> , 34, 1638-1651	62
878	Synergetic combination of 1D-2D g-C3N4 heterojunction nanophotocatalyst for hydrogen production via water splitting under visible light irradiation. <b>2018</b> , 127, 433-443	37
877	Rapid high-temperature treatment on graphitic carbon nitride for excellent photocatalytic H2-evolution performance. <b>2018</b> , 233, 80-87	52
876	Construction of hierarchical 2D-2D Zn3In2S6/fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. <b>2018</b> , 233, 58-69	155

875	The regulation on visible-light photocatalytic activity of CuInS <sub>2</sub> by different Cu/In molar ratio. <b>2018</b> , 212, 372-377	9
874	Facile synthesis of carbon-rich g-C <sub>3</sub> N <sub>4</sub> by copolymerization of urea and tetracyanoethylene for photocatalytic degradation of Orange II. <b>2018</b> , 358, 61-69	21
873	Integration of NiWO <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> with graphitic carbon nitride to fabricate novel magnetically recoverable visible-light-driven photocatalysts. <b>2018</b> , 53, 9046-9063	56
872	Facile synthesis of magnetic FeO@BiOI@AgI for water decontamination with visible light irradiation: Different mechanisms for different organic pollutants degradation and bacterial disinfection. <b>2018</b> , 137, 120-129	92
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867	New understanding of photocatalytic properties of zigzag and armchair g-C <sub>3</sub> N <sub>4</sub> nanotubes from electronic structures and carrier effective mass. <b>2018</b> , 430, 348-354	30
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864	Application of nanotechnologies for removing pharmaceutically active compounds from water: development and future trends. <b>2018</b> , 5, 27-47	162
863	Synthesis of Au nanoparticle-decorated carbon nitride nanorods with plasmon-enhanced photoabsorption and photocatalytic activity for removing various pollutants from water. <b>2018</b> , 344, 1188-1197 <sup>61</sup>	61
862	Two-dimensional metal oxide nanosheets for rechargeable batteries. <b>2018</b> , 27, 117-127	83
861	Designing CdS Mesoporous Networks on Co-C@Co S Double-Shelled Nanocages as Redox-Mediator-Free Z-Scheme Photocatalyst. <b>2018</b> , 11, 245-253	58
860	g-C <sub>3</sub> N <sub>4</sub> -Based Heterostructured Photocatalysts. <b>2018</b> , 8, 1701503	1245
859	Construction of heterostructured ZnIn <sub>2</sub> S <sub>4</sub> @NH <sub>2</sub> -MIL-125(Ti) nanocomposites for visible-light-driven H <sub>2</sub> production. <b>2018</b> , 221, 433-442	236
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857	Insights into the photocatalytic mechanism of mediator-free direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> (010) and g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> (010) heterostructures: A hybrid density functional theory study. <b>2018</b> , 427, 487-498	98
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850	A nanosheet-like Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure modified by plasmonic metallic Bi and oxygen vacancies with high photodegradation activity of organic pollutants. <b>2018</b> , 193, 232-241	82
849	Alkali-assisted fabrication of holey carbon nitride nanosheet with tunable conjugated system for efficient visible-light-driven water splitting. <b>2018</b> , 224, 877-885	55
848	Review on magnetically separable graphitic carbon nitride-based nanocomposites as promising visible-light-driven photocatalysts. <b>2018</b> , 29, 1719-1747	402
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839	Graphitic carbon nitride (g-C3N4) electrodes for energy conversion and storage: a review on photoelectrochemical water splitting, solar cells and supercapacitors. <b>2018</b> , 6, 22346-22380	166
838	Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. <b>2018</b> , 21, 164-177	104
837	Potassium-Functionalized Graphitic Carbon Nitride Supported on Reduced Graphene Oxide as a Sustainable Catalyst for Knoevenagel Condensation. <b>2018</b> , 1, 6711-6723	36
836	Fabrication of g-CN Nanomesh-Anchored Amorphous NiCoPO: Tuned Cycling Life and the Dynamic Behavior of a Hybrid Capacitor. <b>2018</b> , 3, 18694-18704	20
835	A Sensor Based on Au Nanoparticles/Carbon Nitride/Graphene Composites for the Detection of Chloramphenicol and Ciprofloxacin. <b>2018</b> , 7, M201-M208	24
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829	KMC Simulation of the Electroforming, Set and Reset Processes in Redox-Based Resistive Switching Devices. <b>2018</b> , 17, 1181-1188	13
828	Synthesis and Modifications of Mesoporous g-C3N4 Photocatalyst. <b>2018</b> , 345-366	
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826	Carbon-Based, Metal-Free Catalysts for Photocatalysis. <b>2018</b> , 457-500	0
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817	Efficient charge separation and visible-light response in bilayer HFS-based van der Waals heterostructures.. <b>2018</b> , 8, 18889-18895	16
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812	Molten salt assisted in-situ synthesis of TiO2/g-C3N4 composites with enhanced visible-light-driven photocatalytic activity and adsorption ability. <b>2018</b> , 362, 1-13	32
811	Metal-free dual-phase full organic carbon nanotubes/g-C3N4 heteroarchitectures for photocatalytic hydrogen production. <b>2018</b> , 50, 468-478	87
810	In-Situ Growth of NiFe2O4/2D MoS2 p-n Heterojunction Immobilizing Palladium Nanoparticles for Enhanced Visible-Light Photocatalytic Activities. <b>2018</b> , 6, 8935-8944	32
809	Coaddition of Phosphorus and Proton to Graphitic Carbon Nitride for Synergistically Enhanced Visible Light Photocatalytic Degradation and Hydrogen Evolution. <b>2018</b> , 6, 8167-8177	24
808	Manipulation structure of carbon nitride via trace level iron with improved interfacial redox activity and charge separation for synthetic enhancing photocatalytic hydrogen evolution. <b>2018</b> , 456, 609-614	11
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797	Photoredox Catalytic Organic Transformations using Heterogeneous Carbon Nitrides. <b>2018</b> , 57, 15936-15947	215
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772	In situ construction of layered K3Ti5NbO14/g-C3N4 composite for improving visible-light-driven photocatalytic performance. <b>2018</b> , 29, 15859-15868	11
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768	Efficient and stable photocatalytic NO removal on C self-doped g-C3N4: electronic structure and reaction mechanism. <b>2018</b> , 8, 3387-3394	44

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310	One-step synthesis of a heterogeneous catalyst: Cu+-decorated triazine-based g-C3N4 nanosheet formation and catalytic mechanism. <b>2021</b> , 9, 105558	1
309	Silver grafted graphitic-carbon nitride ternary hetero-junction Ag/gC3N4(Urea)-gC3N4(Thiourea) with efficient charge transfer for enhanced visible-light photocatalytic green H2 production. <b>2021</b> , 558, 149900	13
308	Degradation of diclofenac in water under LED irradiation using combined g-CN/NH-MIL-125 photocatalysts. <b>2021</b> , 416, 126199	13
307	Rational Design of Semiconductor Heterojunctions for Photocatalysis. <b>2021</b> , 27, 13306-13317	11
306	Magnetic nanocomposites of Fe3C or Ni-substituted (Fe3C/Fe3O4) with carbon for degradation of methylene orange and p-nitrophenol. <b>2021</b> , 309, 127372	3
305	Recent developments and challenges in zeolite-based composite photocatalysts for environmental applications. <b>2021</b> , 417, 129209	29
304	Photocatalyst Composites from Bi-based and Carbon Materials for Visible Light Photodegradation. <b>2022</b> , 145-178	0
303	Water-splitting photoelectrodes consisting of heterojunctions of carbon nitride with a-type low bandgap double perovskite oxide. <b>2021</b> , 32,	1
302	Functionalized Magnetic Carbon Nanomaterials for Environmental Remediation. <b>2021</b> , 227-249	0
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300	Single step production of styrene from benzene by alkenylation over palladium-anchored thermal defect rich graphitic carbon nitride catalyst. <b>2021</b> , 514, 111844	0

299	Synergetic effect of functionalized graphitic carbon nitride catalyst and ultrasound in aqueous medium: An efficient and sustainable synthesis of 1,3,5-trisubstituted hexahydro-1,3,5-triazines. <b>2021</b> , 4, 100170	1
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297	Synergetic photocatalytic and piezocatalytic degradation of organic pollutants over graphite carbon nitride. <b>2021</b> , 32, 25033	2
296	VO <sub>x</sub> -MoO <sub>y</sub> single molecular layer modified graphitic carbon nitride polymer for enhanced selective styrene oxidation. <b>2021</b> ,	0
295	Direct Z-scheme-based novel cobalt nickel tungstate/graphitic carbon nitride composite: Enhanced photocatalytic degradation of organic pollutants and oxidation of benzyl alcohol. <b>2021</b> , 630, 127606	5
294	Mild adsorption of carbon nitride (CN) nanosheet on a cellular membrane reveals its suitable biocompatibility. <b>2021</b> , 205, 111896	1
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289	Atomically Dispersed Catalytic Sites: A New Frontier for Cocatalyst/Photocatalyst Composites toward Sustainable Fuel and Chemical Production. <b>2021</b> , 11, 1168	4
288	Ultrafast Interlayer Charge Separation, Enhanced Visible-Light Absorption, and Tunable Overpotential in Twisted Graphitic Carbon Nitride Bilayers for Water Splitting. <b>2021</b> , 33, e2104695	8
287	The upsurge of photocatalysts in antibiotic micropollutants treatment: Materials design, recovery, toxicity and bioanalysis. <b>2021</b> , 48, 100437	3
286	Surface oxygenous groups modified graphitic carbon nitride with significant positive shift of valence band for efficient photocatalytic oxidation. <b>2021</b> , 563, 150070	2
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282	Fabrication of electrospun nanofiber composite of g-C <sub>3</sub> N <sub>4</sub> and Au nanoparticles as plasmonic photocatalyst. <b>2021</b> , 26, 101367	1

281	Plasmonic Au-based junctions onto TiO <sub>2</sub> , gC <sub>3</sub> N <sub>4</sub> , and TiO <sub>2</sub> -gC <sub>3</sub> N <sub>4</sub> systems for photocatalytic hydrogen production: Fundamentals and challenges. <b>2021</b> , 149, 111095	8
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274	Surface engineering of copper sulfide-titania-graphitic carbon nitride ternary nanohybrid as an efficient visible-light photocatalyst for pollutant photodegradation. <b>2021</b> , 604, 198-207	5
273	CTAB-melamine molecular crystals as precursor for synthesis of layered carbon nitride porous nanostructures with enhanced photocatalytic activity for hydrogen production. <b>2021</b> , 29, 102780	0
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271	Peroxymonosulfate activation by graphitic carbon nitride co-doped with manganese, cobalt, and oxygen for degradation of trichloroethylene: Effect of oxygen precursors, kinetics, and mechanism. <b>2022</b> , 278, 119580	1
270	Construction of Fe <sub>3</sub> O <sub>4</sub> @g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite catalyst for degradation of PCBs in wastewater through photodegradation and heterogeneous Fenton oxidation. <b>2022</b> , 429, 132445	8
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268	Green and sustainable methods for dye degradation employing photocatalytic materials. <b>2021</b> , 345-376	1
267	Design of Magnetically Recyclable Ternary Fe <sub>2</sub> O <sub>3</sub> /EuVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Nanocomposites for Photocatalytic and Electrochemical Hydrogen Storage. <b>2021</b> , 4, 680-695	65
266	Sulfonic acid-functionalized magnetic carbon nitride as highly efficient ionic composite for sustainable assembly of 1,2,3-triazoles. <b>2021</b> , 18, 2057	2
265	The g-C <sub>3</sub> N <sub>4</sub> modified by AgBr and ZIF-8 adsorption-photocatalysis synergistic degradation of bisphenol A. <b>2021</b> , 47, 1471-1487	3
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261	From Traditional Strategies to Z-scheme Configuration in Graphitic Carbon Nitride Photocatalysts: Recent Progress and Future Challenges. <b>2020</b> , 276, 119157	67
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258	Electrospun, flexible and reusable nanofiber mat of graphitic carbon nitride: Photocatalytic reduction of hexavalent chromium. <b>2020</b> , 575, 433-442	14
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254	Synthesis of LaFeO <sub>3</sub> /AgCO Nanocomposites for Photocatalytic Degradation of Rhodamine B and -Chlorophenol under Natural Sunlight. <b>2019</b> , 4, 2618-2629	46
253	Hybrid CN-MEA microplates with enhanced photocatalytic hydrogen evolution under visible light irradiation. <b>2017</b> , 7, 3777-3784	8
252	Enhancement of photocatalytic hydrogen evolution with catalysts based on carbonized MOF-5 and g-CN.. <b>2020</b> , 10, 4032-4039	9
251	Construction of heterostructure based on hierarchical Bi <sub>2</sub> MoO <sub>6</sub> and g-C <sub>3</sub> N <sub>4</sub> with ease for impressive performance in photoelectrocatalytic water splitting and supercapacitor. <b>2020</b> , 10, 2427-2442	24
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239	Nanoarchitectonics on Bi <sub>2</sub> MoO <sub>6</sub> by alkali etching for enhanced photocatalytic performance. <b>2021</b> , 32, 4384-4390	1
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205	A rational design of LDH/Zn <sub>2</sub> SnO <sub>4</sub> heterostructures for efficient mineralization of toluene through boosted interfacial charge separation.	0
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190	Membraneless Photocatalytic Fuel Cell with Double Photoelectrodes for Simultaneous Electricity Generation and Pollutant Degradation. <b>2022</b> , 169, 026502	0
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188	Atmospheric CO <sub>2</sub> mediated formation of Ag <sub>2</sub> O-Ag <sub>2</sub> CO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> (p-n/n-n dual heterojunctions) with enhanced photoreduction of hexavalent chromium and nitrophenols. <b>2022</b> , 427, 113800	2
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180	Metal-Free Catalytic Oxidative Desulfurization of Fuels-A Review. <b>2022</b> , 36, 3394-3419	1
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