

Graphitic carbon nitride "reloaded" emerging app

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Preparation, Physicochemical Properties, and Functional Characteristics of Carbon Nitride: a Review. Theoretical and Experimental Chemistry, 2016, 52, 265-284.	0.2	7
3	Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> )-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
4	Graphitic Carbon Nitride Materials: Sensing, Imaging and Therapy. Small, 2016, 12, 5376-5393.	5.2	195
5	Metal/Graphitic Carbon Nitride Composites: Synthesis, Structures, and Applications. Chemistry - an Asian Journal, 2016, 11, 3305-3328.	1.7	102
6	Liquid-Crystalline Phases with Liquid Ammonia: Synthesis of Porous Si <sub>3</sub> N <sub>4</sub> , TiN, VN, and H <sub>2</sub> Sorption of Si <sub>3</sub> N <sub>4</sub> and Pd@Si <sub>3</sub> N <sub>4</sub> . Chemistry of Materials, 2016, 28, 7816-7824.	3.2	7
7	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. Journal of Materials Chemistry C, 2016, 4, 8146-8160.	2.7	77
8	Comparison Study of the Photoelectrochemical Activity of Carbon Nitride with Different Photoelectrode Configurations. ACS Applied Materials & Interfaces, 2016, 8, 22287-22294.	4.0	41
9	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. RSC Advances, 2016, 6, 88085-88089.	1.7	24
10	Macroscopic Foam-Like Holey Ultrathin g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Drastic Improvement of Visible-Light Photocatalytic Activity. Advanced Energy Materials, 2016, 6, 1601273.	10.2	466
11	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. ChemSusChem, 2016, 9, 2723-2735.	3.6	96
12	New Organic Semiconducting Scaffolds by Supramolecular Preorganization: Dye Intercalation and Dye Oxidation and Reduction. Small, 2016, 12, 6090-6097.	5.2	17
13	Microfluidic chip-based one-step fabrication of an artificial photosystem I for photocatalytic cofactor regeneration. RSC Advances, 2016, 6, 101974-101980.	1.7	29
15	A review on g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts. Applied Surface Science, 2017, 391, 72-123.	3.1	2,318
16	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. Advanced Functional Materials, 2017, 27, 1605785.	7.8	249
17	Phosphine-free avenue to Co <sub>2</sub> P nanoparticle encapsulated N,P co-doped CNTs: a novel non-enzymatic glucose sensor and an efficient electrocatalyst for oxygen evolution reaction. Green Chemistry, 2017, 19, 1327-1335.	4.6	141
18	Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. Advanced Energy Materials, 2017, 7, 1602251.	10.2	238
19	Surface and Interface Engineering of Noble-Metal-Free Electrocatalysts for Efficient Energy Conversion Processes. Accounts of Chemical Research, 2017, 50, 915-923.	7.6	824
20	Role of precursors on the photophysical properties of carbon nitride and its application for antibiotic degradation. Environmental Science and Pollution Research, 2017, 24, 8609-8618.	2.7	77

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21	Sulfur-Modified Graphitic Carbon Nitride Nanostructures as an Efficient Electrocatalyst for Water Oxidation. <i>Small</i> , 2017, 13, 1603893.	5.2	52
22	Boron-doped melamine-derived carbon nitrides tailored by ionic liquids for catalytic conversion of CO <sub>2</sub> into cyclic carbonates. <i>Green Chemistry</i> , 2017, 19, 2957-2965.	4.6	77
23	Orientation controlled preparation of nanoporous carbon nitride fibers and related composite for gas sensing under ambient conditions. <i>Nano Research</i> , 2017, 10, 1710-1719.	5.8	33
24	Simple and Large Scale Construction of MoS <sub>2</sub> -g-C <sub>3</sub> N <sub>4</sub> Heterostructures Using Mechanochemistry for High Performance Electrochemical Supercapacitor and Visible Light Photocatalytic Applications. <i>Scientific Reports</i> , 2017, 7, 43055.	1.6	157
25	Growth of three-dimensional flower-like SnS <sub>2</sub> on g-C <sub>3</sub> N <sub>4</sub> sheets as an efficient visible-light photocatalyst, photoelectrode, and electrochemical supercapacitance material. <i>Sustainable Energy and Fuels</i> , 2017, 1, 510-519.	2.5	59
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27	Facile Fabrication of BCN Nanosheet-Encapsulated Nano-Iron as Highly Stable Fischer-Tropsch Synthesis Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14319-14327.	4.0	70
28	Adsorptive removal of herbicides from water over nitrogen-doped carbon obtained from ionic liquid@ZIF-8. <i>Chemical Engineering Journal</i> , 2017, 323, 203-211.	6.6	112
29	Directional electron delivery via a vertical channel between g-C <sub>3</sub> N <sub>4</sub> layers promotes photocatalytic efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9358-9364.	5.2	159
30	Shape-Controlled Metal-Free Catalysts: Facet-Sensitive Catalytic Activity Induced by the Arrangement Pattern of Noncovalent Supramolecular Chains. <i>ACS Nano</i> , 2017, 11, 4866-4876.	7.3	31
31	Flexible Transparent Supercapacitors Based on Hierarchical Nanocomposite Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17865-17871.	4.0	80
32	Evaluation of a multi-dimensional hybrid photocatalyst for enrichment of H <sub>2</sub> evolution and elimination of dye/non-dye pollutants. <i>Catalysis Science and Technology</i> , 2017, 7, 2579-2590.	2.1	49
33	Carbon nitride nanosheets as visible light photocatalytic initiators and crosslinkers for hydrogels with thermoresponsive turbidity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8933-8938.	5.2	75
34	High intrinsic catalytic activity of two-dimensional boron monolayers for the hydrogen evolution reaction. <i>Nanoscale</i> , 2017, 9, 533-537.	2.8	116
35	Conductive Carbon Nitride for Excellent Energy Storage. <i>Advanced Materials</i> , 2017, 29, 1701674.	11.1	142
36	Thermal catalysis vs. photocatalysis: A case study with FeVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposites for the efficient activation of aromatic and benzylic C-H bonds to oxygenated products. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 621-636.	10.8	78
37	Tuning of the Optical, Electronic, and Magnetic Properties of Boron Nitride Nanosheets with Oxygen Doping and Functionalization. <i>Advanced Materials</i> , 2017, 29, 1700695.	11.1	168
38	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017, 29, 1700102.	11.1	384

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39	Facile and Selective Enrichment of Intact Sialoglycopeptides Using Graphitic Carbon Nitride. <i>Analytical Chemistry</i> , 2017, 89, 8064-8069.	3.2	25
40	A novel label-free strategy for pathogenic DNA detection based on metal ion binding-induced fluorescence quenching of graphitic carbon nitride nanosheets. <i>Analyst, The</i> , 2017, 142, 2617-2623.	1.7	26
41	Enhanced Photocatalytic Activities of g-C <sub>3</sub> N <sub>4</sub> via Hybridization with a Bi <sup>3+</sup> /Fe <sup>3+</sup> /Nb-Containing Ferroelectric Pyrochlore. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19908-19916.	4.0	43
42	Strategies for Efficient Solar Water Splitting Using Carbon Nitride. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1421-1434.	1.7	72
43	Porous graphitic carbon nitride nanosheets prepared under self-producing atmosphere for highly improved photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 322-330.	10.8	99
44	Nitrogen-carbon graphite-like semiconductor synthesized from uric acid. <i>Carbon</i> , 2017, 121, 368-379.	5.4	23
45	Thermal induced BCN nanosheets evolution and its usage as metal-free catalyst in ethylbenzene dehydrogenation. <i>Applied Surface Science</i> , 2017, 422, 574-581.	3.1	34
46	Visible-light-driven photooxidation of alcohols using surface-doped graphitic carbon nitride. <i>Green Chemistry</i> , 2017, 19, 2096-2100.	4.6	49
47	A facile and one-pot synthesis of fluorescent graphitic carbon nitride quantum dots for bio-imaging applications. <i>New Journal of Chemistry</i> , 2017, 41, 3930-3938.	1.4	120
48	A facile mechanochemical route to a covalently bonded graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) and fullerene hybrid toward enhanced visible light photocatalytic hydrogen production. <i>Nanoscale</i> , 2017, 9, 5615-5623.	2.8	89
49	Graphitic carbon nitride nanofibers in seaweed-like architecture for gas chromatographic separations. <i>Journal of Chromatography A</i> , 2017, 1496, 133-140.	1.8	14
51	Synthesis of an electronically modified carbon nitride from a processable semiconductor, 3-amino-1,2,4-triazole oligomer, via a topotactic-like phase transition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8394-8401.	5.2	45
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53	Hierarchical porous Bi <sub>24</sub> O <sub>31</sub> Br <sub>10</sub> microarchitectures assembled by ultrathin nanosheets with strong adsorption and excellent photocatalytic performances. <i>Materials and Design</i> , 2017, 123, 128-136.	3.3	32
54	Time-Resolved Spectroscopic Investigation of Charge Trapping in Carbon Nitrides Photocatalysts for Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2017, 139, 5216-5224.	6.6	397
55	A robust design of Ru quantum dot/N-doped holey graphene for efficient Li <sup>+</sup> /O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 619-631.	5.2	55
56	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie</i> , 2017, 129, 525-529.	1.6	54
57	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 510-514.	7.2	204

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58	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. International Journal of Hydrogen Energy, 2017, 42, 6738-6745.	3.8	120
59	A Composite Polymeric Carbon Nitride with In Situ Formed Isotype Heterojunctions for Highly Improved Photocatalysis under Visible Light. Small, 2017, 13, 1603182.	5.2	55
60	Bio-directed morphology engineering towards hierarchical 1D to 3D macro/meso/nanoscale morph-tunable carbon nitride assemblies for enhanced artificial photosynthesis. Journal of Materials Chemistry A, 2017, 5, 2195-2203.	5.2	21
61	Two-dimensional materials confining single atoms for catalysis. Chinese Journal of Catalysis, 2017, 38, 1443-1453.	6.9	61
62	Recent Advances in Graphitic Carbon Nitride-Based Chemiluminescence, Cataluminescence and Electrochemiluminescence. Journal of Analysis and Testing, 2017, 1, 274-290.	2.5	18
63	Multifunctional UCNPs@MnSiO <sub>3</sub> @g-C <sub>3</sub> N <sub>4</sub> nanoplatform: improved ROS generation and reduced glutathione levels for highly efficient photodynamic therapy. Biomaterials Science, 2017, 5, 2456-2467.	2.6	58
64	g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Mesocrystals Composite for H <sub>2</sub> Evolution under Visible-Light Irradiation and Its Charge Carrier Dynamics. ACS Applied Materials & Interfaces, 2017, 9, 34844-34854.	4.0	163
65	2D Hybrid Nanomaterials for Selective Detection of NO <sub>2</sub> and SO <sub>2</sub> Using "Light On and Off" Strategy. ACS Applied Materials & Interfaces, 2017, 9, 37191-37200.	4.0	52
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71	Preparation of an ultrathin 2D/2D rGO/g-C <sub>3</sub> N <sub>4</sub> nanocomposite with enhanced visible-light-driven photocatalytic performance. RSC Advances, 2017, 7, 36793-36799.	1.7	28
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73	In situ one-pot synthesis of graphitic carbon nitride quantum dots and its 2,2,6,6-tetramethyl(piperidin-1-yl)oxyl derivatives as fluorescent nanosensors for ascorbic acid. Analytica Chimica Acta, 2017, 991, 113-126.	2.6	38
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77	Synthesis of High-Quality Crystalline Carbon Nitride Oxide by Selectively Driving the High-Temperature Instability of Urea with Pressure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19872-19879.	1.5	9
78	Synthesis of fluorescent polymeric carbon nitride quantum dots in molten salts for security inks. <i>New Journal of Chemistry</i> , 2017, 41, 14918-14923.	1.4	31
79	From Linear Molecular Chains to Extended Polycyclic Networks: Polymerization of Dicyanoacetylene. <i>Chemistry of Materials</i> , 2017, 29, 6706-6718.	3.2	9
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81	Synergetic enhancement of plasmonic hot-electron injection in Au cluster-nanoparticle/C <sub>3</sub> N <sub>4</sub> for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19649-19655.	5.2	61
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83	Scalable exfoliation and dispersion of two-dimensional materials – an update. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 921-960.	1.3	261
84	Facile and green synthesis of novel porous g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>3</sub> PO <sub>4</sub> composite with enhanced visible light photocatalysis. <i>Ceramics International</i> , 2017, 43, 1522-1529.	2.3	52
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86	Photocatalytic Decontamination of Wastewater Containing Organic Dyes by Metal-Organic Frameworks and their Derivatives. <i>ChemCatChem</i> , 2017, 9, 41-64.	1.8	219
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88	Graphitic carbon nitride: Effects of various precursors on the structural, morphological and electrochemical sensing properties. <i>Applied Materials Today</i> , 2017, 8, 150-162.	2.3	56
89	A surface modification resultant thermally oxidized porous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 335-345.	10.8	295
90	Graphitic carbon nitride nanosheets obtained by liquid stripping as efficient photocatalysts under visible light. <i>RSC Advances</i> , 2017, 7, 37185-37193.	1.7	68
91	Eco-Friendly Solid-State Upconversion Hydrogel with Thermoresponsive Feature as the Temperature Indicator. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20158-20164.	1.5	40
92	Direct Growth of CuO Nanorods on Graphitic Carbon Nitride with Synergistic Effect on Thermal Decomposition of Ammonium Perchlorate. <i>Materials</i> , 2017, 10, 484.	1.3	28
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94	2D/2D Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) Heterojunction Nanocomposites for Photocatalysis: Why Does Face-to-Face Interface Matter?. <i>Frontiers in Materials</i> , 2017, 4, .	1.2	201
95	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. <i>Chemical Society Reviews</i> , 2018, 47, 2298-2321.	18.7	488
96	In-situ synthesis of graphitic carbon nitride/iron oxide-copper composites and their application in the electrochemical detection of glucose. <i>Electrochimica Acta</i> , 2018, 265, 275-283.	2.6	53
97	Role of precursors on photocatalytic behavior of graphitic carbon nitride. <i>Materials Today: Proceedings</i> , 2018, 5, 9203-9210.	0.9	23
98	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. <i>National Science Review</i> , 2018, 5, 642-652.	4.6	132
99	A New Synthesis Approach for Carbon Nitrides: Poly(triazine imide) and Its Photocatalytic Properties. <i>ACS Omega</i> , 2018, 3, 3892-3900.	1.6	37
100	Photocatalytic degradation of oilfield produced water using graphitic carbon nitride embedded in electrospun polyacrylonitrile nanofibers. <i>Chemosphere</i> , 2018, 204, 79-86.	4.2	51
101	In-situ loading of (BiO) <sub>2</sub> CO <sub>3</sub> on g-C <sub>3</sub> N <sub>4</sub> with promoted solar-driven photocatalytic performance originated from a direct Z-scheme mechanism. <i>Materials Science in Semiconductor Processing</i> , 2018, 82, 97-103.	1.9	24
102	Support Effect of the Fe/BN Catalyst on Fischer-Tropsch Performances: Role of the Surface O Defect. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 2805-2810.	1.8	24
103	Doping effect of non-metal group in porous ultrathin g-C <sub>3</sub> N <sub>4</sub> nanosheets towards synergistically improved photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 5239-5245.	2.8	86
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107	Nickel doped graphitic carbon nitride nanosheets and its application for dye degradation by chemical catalysis. <i>Materials Research Bulletin</i> , 2018, 101, 291-304.	2.7	66
108	Organic-inorganic Z-scheme g-C <sub>3</sub> N <sub>4</sub> -NiTi-layered double hydroxide films for photocatalytic applications in a fixed-bed reactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 63, 65-72.	2.9	30
109	Strong enhancement of the chemiluminescence of the Cu(II)-H <sub>2</sub> O <sub>2</sub> system on addition of carbon nitride quantum dots, and its application to the detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Mikrochimica Acta</i> , 2018, 185, 67.	2.5	27
110	Interfacial Synthesis of Conjugated Two-Dimensional N-Graphdiyne. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 53-58.	4.0	124
111	Electrochemiluminescent aptasensor based on $\beta$ -cyclodextrin/graphitic carbon nitride composite for highly selective and ultrasensitive assay of platelet derived growth factor BB. <i>Carbon</i> , 2018, 130, 416-423.	5.4	29

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112	Graphitic Carbon Nitride as a New Sensitive Material for Electrochemical Determination of Trace Amounts of Tartrazine in Food Samples. <i>Food Analytical Methods</i> , 2018, 11, 2907-2915.	1.3	37
113	Polycyclic aromatic compounds-modified graphitic carbon nitride for efficient visible-light-driven hydrogen evolution. <i>Carbon</i> , 2018, 134, 134-144.	5.4	126
114	Adsorption of pollutant cations from their aqueous solutions on graphitic carbon nitride explored by density functional theory. <i>Journal of Molecular Liquids</i> , 2018, 260, 423-435.	2.3	18
115	Thermal conductivities of two-dimensional graphitic carbon nitrides by molecule dynamics simulation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 738-746.	2.5	56
116	Dependence of Exposed Facet of Pd on Photocatalytic H <sub>2</sub> -Production Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6478-6487.	3.2	41
117	Melem based multifunctional catalyst for chemical fixation of carbon dioxide into cyclic carbonate. <i>Journal of CO2 Utilization</i> , 2018, 24, 287-297.	3.3	35
118	Tumor-Targeted Graphitic Carbon Nitride Nanoassembly for Activatable Two-Photon Fluorescence Imaging. <i>Analytical Chemistry</i> , 2018, 90, 4649-4656.	3.2	49
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120	Strongly coupled polyoxometalates/oxygen doped g-C <sub>3</sub> N <sub>4</sub> nanocomposites as Fenton-like catalysts for efficient photodegradation of sulfosalicylic acid. <i>Catalysis Communications</i> , 2018, 112, 63-67.	1.6	34
121	Tough high modulus hydrogels derived from carbon-nitride <i>via</i> an ethylene glycol co-solvent route. <i>Soft Matter</i> , 2018, 14, 2655-2664.	1.2	28
122	Photocatalytic degradation of organic contaminants by g-C <sub>3</sub> N <sub>4</sub> /EPDM nanocomposite film: Viable, efficient and facile recoverable. <i>Materials Science and Engineering C</i> , 2018, 84, 188-194.	3.8	9
123	Katalyse der Kohlenstoffdioxid-Photoreduktion an Nanoschichten: Grundlagen und Herausforderungen. <i>Angewandte Chemie</i> , 2018, 130, 7734-7752.	1.6	27
124	Water soluble graphitic carbon nitride with tunable fluorescence for boosting broad-response photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 519-529.	10.8	49
125	Fragmented phosphorus-doped graphitic carbon nitride nanoflakes with broad sub-bandgap absorption for highly efficient visible-light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 397-405.	10.8	154
126	Catalysis of Carbon Dioxide Photoreduction on Nanosheets: Fundamentals and Challenges. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7610-7627.	7.2	361
127	Magnetically recoverable highly efficient visible-light-active g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> /Ag <sub>2</sub> WO <sub>4</sub> /AgBr nanocomposites for photocatalytic degradations of environmental pollutants. <i>Advanced Powder Technology</i> , 2018, 29, 94-105.	2.0	111
128	Semiconductor-Based Photocatalytic Systems for the Solar-Light-Driven Water Splitting and Hydrogen Evolution. <i>Lecture Notes in Quantum Chemistry II</i> , 2018, , 39-125.	0.3	1
129	Review on magnetically separable graphitic carbon nitride-based nanocomposites as promising visible-light-driven photocatalysts. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1719-1747.	1.1	462



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130	High-efficiency removal of rhodamine B dye in water using g-C <sub>3</sub> N <sub>4</sub> and TiO <sub>2</sub> co-hybridized 3D graphene aerogel composites. Separation and Purification Technology, 2018, 194, 96-103.	3.9	66
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