

Polymeric Photocatalysts Based on Graphitic Carbon Nitride

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis and Photocatalytic Activity of One-dimensional \pm -Fe ₂ O ₃ Nanorods. Chemistry Letters, 2015, 44, 1682-1684.	0.7	3
4	Multichannel-Improved Charge-Carrier Dynamics in Well-Designed Hetero-Nanostructural Plasmonic Photocatalysts toward Highly Efficient Solar-Fuels Conversion. Advanced Materials, 2015, 27, 5906-5914.	11.1	239
6	Nature-Inspired Environmental Phosphorylation-Boosts Photocatalytic H ₂ Production over Carbon Nitride Nanosheets under Visible-Light Irradiation. Angewandte Chemie - International Edition, 2015, 54, 13561-13565.	7.2	287
7	Macroscopic 3D Porous Graphitic Carbon Nitride Monolith for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials, 2015, 27, 4634-4639.	11.1	567
8	Holey Graphitic Carbon Nitride Nanosheets with Carbon Vacancies for Highly Improved Photocatalytic Hydrogen Production. Advanced Functional Materials, 2015, 25, 6885-6892.	7.8	898
9	Synthesis of Rod-Like g-C ₃ N ₄ /ZnS Composites with Superior Photocatalytic Activity for the Degradation of Methyl Orange. European Journal of Inorganic Chemistry, 2015, 2015, 4108-4115.	1.0	53
10	Graphitic Carbon Nitride Polymers toward Sustainable Photoredox Catalysis. Angewandte Chemie - International Edition, 2015, 54, 12868-12884.	7.2	1,223
11	Synergic Effect between Adsorption and Photocatalysis of Metal-Free g-C ₃ N ₄ Derived from Different Precursors. PLoS ONE, 2015, 10, e0142616.	1.1	57
12	Hydrogenated Defects in Graphitic Carbon Nitride Nanosheets for Improved Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2015, 119, 14938-14946.	1.5	148
13	Synthesis of g-C ₃ N ₄ at different temperatures for superior visible/UV photocatalytic performance and photoelectrochemical sensing of MB solution. RSC Advances, 2015, 5, 101552-101562.	1.7	175
14	Origin of High Photocatalytic Efficiency in Monolayer g-C ₃ N ₄ /CdS Heterostructure: A Hybrid DFT Study. Journal of Physical Chemistry C, 2015, 119, 28417-28423.	1.5	345
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16	Dramatic activity of a Bi ₂ WO ₆ @g-C ₃ N ₄ photocatalyst with a core-shell structure. RSC Advances, 2015, 5, 99339-99346.	1.7	54
17	Mixed-calcination synthesis of CdWO ₄ /g-C ₃ N ₄ heterojunction with enhanced visible-light-driven photocatalytic activity. Applied Surface Science, 2015, 358, 343-349.	3.1	74
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19	Fabrication of the heterostructured CsTaWO ₆ /Au/g-C ₃ N ₄ hybrid photocatalyst with enhanced performance of photocatalytic hydrogen production from water. Applied Surface Science, 2015, 358, 252-260.	3.1	55
20	Doped graphenes in catalysis. Journal of Molecular Catalysis A, 2015, 408, 296-309.	4.8	70
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22	Enhanced photocatalytic H ₂ evolution over noble-metal-free NiS cocatalyst modified CdS nanorods/g-C ₃ N ₄ heterojunctions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18244-18255.	5.2	306
23	Graphitic carbon nitride nanosheet@metal-organic framework core-shell nanoparticles for photo-chemo combination therapy. <i>Nanoscale</i> , 2015, 7, 17299-17305.	2.8	160
24	Effect of acid on the photocatalytic degradation of rhodamine B over g-C ₃ N ₄ . <i>Applied Surface Science</i> , 2015, 358, 336-342.	3.1	87
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43	Enhanced visible light photocatalytic H ₂ -production of <i>g-C₃N₄/WS₂</i> composite heterostructures. <i>Applied Surface Science</i> , 2015, 358, 196-203.	3.1	327
44	Synthesis of highly fluorescent P,O- <i>g-C₃N₄</i> nanodots for the label-free detection of Cu ²⁺ and acetylcholinesterase activity. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10916-10924.	2.7	79
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110	Synthesis of Bi _x O _y I _z from molecular precursor and selective photoreduction of CO ₂ into CO. <i>Journal of CO₂ Utilization</i> , 2016, 14, 135-142.	3.3	87
111	Graphitic Carbon Nitride (g-C ₃ N ₄)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. <i>Chemical Reviews</i> , 2016, 116, 7159-7329.	23.0	5,505

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120	Efficient C ₃ N ₄ /graphene oxide macroscopic aerogel visible-light photocatalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7823-7829.	5.2	185
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128	Carbon-based H ₂ -production photocatalytic materials. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016, 27, 72-99.	5.6	252
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656	In-situ synthesis of direct solid-state dual Z-scheme WO ₃ /g-C ₃ N ₄ /Bi ₂ O ₃ photocatalyst for the degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 376-385.	10.8	495
657	Protonated graphitic carbon nitride coated metal-organic frameworks with enhanced visible-light photocatalytic activity for contaminants degradation. <i>Applied Surface Science</i> , 2018, 441, 85-98.	3.1	94
658	Zn-vacancy mediated electron-hole separation in ZnS/g-C ₃ N ₄ heterojunction for efficient visible-light photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 41-51.	10.8	529
659	Anomalous resistivity of heavily nitrogen doped graphitic carbon. <i>Diamond and Related Materials</i> , 2018, 83, 75-79.	1.8	1
660	Fabrication and photocatalytic properties of flexible g-C ₃ N ₄ /SiO ₂ composite membrane by electrospinning method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6771-6778.	1.1	30
661	<i>In situ</i> fabrication of two-dimensional g-C ₃ N ₄ /Ba ₅ Ta ₄ O ₁₅ nanosheet heterostructures with efficient charge separations and photocatalytic hydrogen evolution under visible light illumination. <i>Dalton Transactions</i> , 2018, 47, 4360-4367.	1.6	23
662	Scalable and clean exfoliation of graphitic carbon nitride in NaClO solution: enriched surface active sites for enhanced photocatalytic H ₂ evolution. <i>Green Chemistry</i> , 2018, 20, 1354-1361.	4.6	82
663	Oxygen self-doped g-C ₃ N ₄ with tunable electronic band structure for unprecedentedly enhanced photocatalytic performance. <i>Nanoscale</i> , 2018, 10, 4515-4522.	2.8	247
664	Adsorption behavior of NH ₃ and NO ₂ molecules on stanene and stanane nanosheets – A density functional theory study. <i>Chemical Physics Letters</i> , 2018, 695, 162-169.	1.2	50
665	Exploring Two-Dimensional Materials toward the Next-Generation Circuits: From Monomer Design to Assembly Control. <i>Chemical Reviews</i> , 2018, 118, 6236-6296.	23.0	410
666	Constructing 2D/2D Fe ₂ O ₃ /g-C ₃ N ₄ Direct Z-Scheme Photocatalysts with Enhanced H ₂ Generation Performance. <i>Solar Rrl</i> , 2018, 2, 1800006.	3.1	403
667	Fabrication and Photocatalytic Application of Aromatic Ring Functionalized Melem Oligomers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3506-3512.	1.5	16
668	N-rich graphitic carbon nitride functionalized graphene oxide nanosheet hybrid as anode for high performance lithium-ion batteries. <i>Materials Research Express</i> , 2018, 5, 016307.	0.8	18
669	Synthesis of ternary g-C ₃ N ₄ /Bi ₂ MoO ₆ /TiO ₂ nanotube composite photocatalysts for the decolorization of dyes under visible light and direct sunlight irradiation. <i>Green Processing and Synthesis</i> , 2018, 7, 493-505.	1.3	23
670	A Hierarchical Z-Scheme Fe ₂ O ₃ /g-C ₃ N ₄ Hybrid for Enhanced Photocatalytic CO ₂ Reduction. <i>Advanced Materials</i> , 2018, 30, 1706108.	11.1	761
671	One-step preparation of a novel SrCO ₃ /g-C ₃ N ₄ nano-composite and its application in selective adsorption of crystal violet. <i>RSC Advances</i> , 2018, 8, 6315-6325.	1.7	56
672	A new triazine-based covalent organic polymer for efficient photodegradation of both acidic and basic dyes under visible light. <i>Dalton Transactions</i> , 2018, 47, 4191-4197.	1.6	57

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674	Chemically Bonded Ni Cocatalyst onto the S Doped g-C ₃ N ₄ Nanosheets and Their Synergistic Enhancement in H ₂ Production under Sunlight Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4194-4203.	3.2	133
675	Bifunctional Cu ₃ P Decorated g-C ₃ N ₄ Nanosheets as a Highly Active and Robust Visible-Light Photocatalyst for H ₂ Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4026-4036.	3.2	243
676	Creating Graphitic Carbon Nitride Based Donor-acceptor Donor Structured Catalysts for Highly Photocatalytic Hydrogen Evolution. <i>Small</i> , 2018, 14, e1703599.	5.2	100
677	Template-free large-scale synthesis of g-C ₃ N ₄ microtubes for enhanced visible light-driven photocatalytic H ₂ production. <i>Nano Research</i> , 2018, 11, 3462-3468.	5.8	199
678	Ordered layered N-doped KTiNbO ₅ /g-C ₃ N ₄ heterojunction with enhanced visible light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018, 228, 54-63.	10.8	117
679	Z-scheme g-C ₃ N ₄ @CsxWO ₃ heterostructure as smart window coating for UV isolating, Vis penetrating, NIR shielding and full spectrum photocatalytic decomposing VOCs. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 218-226.	10.8	164
680	Ultrasound-Assisted Fabrication of Hierarchical Rodlike Graphitic Carbon Nitride with Fewer Defects and Enhanced Visible-Light Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3187-3195.	3.2	64
681	A self-powered sensor based on molecularly imprinted polymer-coupled graphitic carbon nitride photoanode for selective detection of bisphenol A. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 394-401.	4.0	53
682	Molecular structure design of conjugated microporous poly(dibenzo[b,d]thiophene 5,5-dioxide) for optimized photocatalytic NO removal. <i>Journal of Catalysis</i> , 2018, 357, 188-194.	3.1	25
683	Z-Scheme in a Co ₃ (PO ₄) ₂ ·½Fe ₂ O ₃ photocatalysis system for overall water splitting under visible light. <i>Catalysis Science and Technology</i> , 2018, 8, 840-846.	2.1	39
684	Density functional theory investigation of the interactions between the buckled stanene nanosheet and XO ₂ gases (X = N, S, C). <i>Computational and Theoretical Chemistry</i> , 2018, 1125, 15-28.	1.1	27
685	In situ Prepared Flexible 3D Polymer Film Photocatalyst for Highly Selective Solar Fuel Production from CO ₂ . <i>ChemCatChem</i> , 2018, 10, 2024-2029.	1.8	13
686	Unique bar-like sulfur-doped C ₃ N ₄ /TiO ₂ nanocomposite: Excellent visible light driven photocatalytic activity and mechanism study. <i>Applied Surface Science</i> , 2018, 436, 873-881.	3.1	42
687	Facile One-Pot Two-Step Synthesis of Novel in Situ Selenium-Doped Carbon Nitride Nanosheet Photocatalysts for Highly Enhanced Solar Fuel Production from CO ₂ . <i>ACS Applied Nano Materials</i> , 2018, 1, 47-54.	2.4	62
688	Porous defect-modified graphitic carbon nitride via a facile one-step approach with significantly enhanced photocatalytic hydrogen evolution under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 1-9.	10.8	292
689	Metal-free virucidal effects induced by g-C ₃ N ₄ under visible light irradiation: Statistical analysis and parameter optimization. <i>Chemosphere</i> , 2018, 195, 551-558.	4.2	50
690	Hollow CoS Polyhedrons Act as High-Efficiency Cocatalyst for Enhancing the Photocatalytic Hydrogen Generation of g-C ₃ N ₄ . <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2767-2779.	3.2	343

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692	Enhanced Charge Separation Efficiency Accelerates Hydrogen Evolution from Water of Carbon Nitride and 3,4,9,10-Perylene-tetracarboxylic Dianhydride Composite Photocatalyst. ACS Applied Materials & Interfaces, 2018, 10, 3515-3521.	4.0	35
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706	Novel functionalized nanomaterials for the effective enrichment of proteins and peptides with post-translational modifications. Journal of Proteomics, 2018, 181, 170-189.	1.2	12
707	Interaction of volatile organic compounds (VOCs) emitted from banana on stanene nanosheet—a first-principles studies. Structural Chemistry, 2018, 29, 1321-1332.	1.0	20
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711	Decoration of Fe ₃ O ₄ and CoWO ₄ nanoparticles over graphitic carbon nitride: Novel visible-light-responsive photocatalysts with exceptional photocatalytic performances. Materials Research Bulletin, 2018, 105, 159-171.	2.7	66
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714	Rapid high-temperature treatment on graphitic carbon nitride for excellent photocatalytic H ₂ -evolution performance. Applied Catalysis B: Environmental, 2018, 233, 80-87.	10.8	79
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728	Improving the photocatalytic activity of graphitic carbon nitride by thermal treatment in a high-pressure hydrogen atmosphere. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 183-188.	1.8	31
729	Modified metal-organic frameworks as photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 317-342.	10.8	376
730	2D/1D heterostructure of g-C ₃ N ₄ nanosheets/CdS nanowires as effective photo-activated support for photoelectrocatalytic oxidation of methanol. <i>Catalysis Today</i> , 2018, 315, 36-45.	2.2	48
731	Facile synthesis of carbon- and oxygen-rich graphitic carbon nitride with enhanced visible-light photocatalytic activity. <i>Catalysis Today</i> , 2018, 310, 26-31.	2.2	30
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734	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. <i>ChemCatChem</i> , 2018, 10, 62-123.	1.8	39
735	g-C ₃ N ₄ based composite photocatalysts for photocatalytic CO ₂ reduction. <i>Catalysis Today</i> , 2018, 300, 160-172.	2.2	263
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746	Facile synthesis of carbon-doped g-C ₃ N ₄ for enhanced photocatalytic hydrogen evolution under visible light. <i>Materials Letters</i> , 2018, 212, 111-113.	1.3	41
747	Solar-driven Hydrogen Energy Conversion Based on Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1701620.	10.2	429
748	Graphite-like g-C ₃ N ₄ -F127-Au nanosheets used for sensitive monitoring of heat shock protein 90. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 160-166.	4.0	10
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751	Enhanced visible-light driven photocatalytic activity of hybrid ZnO/g-C ₃ N ₄ by high performance ball milling. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 350, 1-9.	2.0	48
752	Facile one-pot synthesis of C and g-C ₃ N ₄ composites with enhanced photocatalytic activity using hydroxymethylated melamine as carbon source and soft template. <i>Materials Letters</i> , 2018, 211, 78-81.	1.3	19
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756	Construction of organic-inorganic cadmium sulfide/diethylenetriamine hybrids for efficient photocatalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 77-85.	5.0	42
757	A one-pot, solid-state route for realizing highly visible light active Na-doped g-C ₃ N ₄ photocatalysts. <i>Journal of Solid State Chemistry</i> , 2018, 257, 26-33.	1.4	49
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782	Construction of a Z-scheme core-shell g-C ₃ N ₄ /MCNTs/BiOI nanocomposite semiconductor with enhanced visible-light photocatalytic activity. <i>New Journal of Chemistry</i> , 2018, 42, 489-496.	1.4	17
783	Boosting visible light photocatalytic hydrogen evolution of graphitic carbon nitride via enhancing its interfacial redox activity with cobalt/nitrogen doped tubular graphitic carbon. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 512-518.	10.8	65
784	In-depth understanding of core-shell nanoarchitecture evolution of g-C ₃ N ₄ @C, N co-doped anatase/rutile: Efficient charge separation and enhanced visible-light photocatalytic performance. <i>Applied Surface Science</i> , 2018, 436, 302-318.	3.1	54
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1175	Further activation of g-C ₃ N ₄ with less N-H defects for enhancing photocatalytic hydrogen evolution. <i>Catalysis Communications</i> , 2019, 125, 114-117.	1.6	2
1176	Atomically dispersed Mo atoms on amorphous g-C ₃ N ₄ promotes visible-light absorption and charge carriers transfer. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 273-279.	10.8	92
1177	Heptazine-based porous polymer for selective CO ₂ sorption and visible light photocatalytic oxidation of benzyl alcohol. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 9-14.	2.2	12
1178	Direct electrospinning method for the construction of Z-scheme TiO ₂ /g-C ₃ N ₄ /RGO ternary heterojunction photocatalysts with remarkably ameliorated photocatalytic performance. <i>Chinese Journal of Catalysis</i> , 2019, 40, 458-469.	6.9	103
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1181	Accelerating photocatalytic hydrogen evolution and pollutant degradation by coupling organic co-catalysts with TiO ₂ . <i>Chinese Journal of Catalysis</i> , 2019, 40, 380-389.	6.9	105
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1183	Facile synthesis of Zn(II)-doped g-C ₃ N ₄ and their enhanced photocatalytic activity under visible light irradiation. <i>Rare Metals</i> , 2019, 38, 459-467.	3.6	51
1184	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. <i>Chinese Chemical Letters</i> , 2019, 30, 875-880.	4.8	34
1185	Effect of the intra- and inter-triazine N-vacancies on the photocatalytic hydrogen evolution of graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2019, 369, 263-271.	6.6	55
1186	Carbon Nitride: A Wonder Photocatalyst. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 167-209.	0.3	1
1187	Engineering MP _x (M = Fe, Co or Ni) interface electron transfer channels for boosting photocatalytic H ₂ evolution over g-C ₃ N ₄ /MoS ₂ layered heterojunctions. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 250-259.	10.8	188
1188	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11584-11612.	5.2	174
1189	Artificial Photosynthesis with Polymeric Carbon Nitride: When Meeting Metal Nanoparticles, Single Atoms, and Molecular Complexes. <i>Small</i> , 2019, 15, e1900772.	5.2	84
1190	Facile band alignment of C ₃ N ₄ /CdS/MoS ₂ sandwich hybrid for efficient charge separation and high photochemical performance under visible-light. <i>Powder Technology</i> , 2019, 351, 222-228.	2.1	18
1191	Surface Amino Group Regulation and Structural Engineering of Graphitic Carbon Nitride with Enhanced Photocatalytic Activity by Ultrafast Ammonia Plasma Immersion Modification. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14952-14959.	4.0	39
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1193	Physical vapor deposition (PVD): a method to fabricate modified g-C ₃ N ₄ sheets. <i>New Journal of Chemistry</i> , 2019, 43, 6683-6687.	1.4	14
1194	Synthesis and optimization of the trimesic acid modified polymeric carbon nitride for enhanced photocatalytic reduction of CO ₂ . <i>Journal of Colloid and Interface Science</i> , 2019, 548, 197-205.	5.0	66
1195	Artificial photosynthesis of ethanol using type-II g-C ₃ N ₄ /ZnTe heterojunction in photoelectrochemical CO ₂ reduction system. <i>Nano Energy</i> , 2019, 60, 827-835.	8.2	126
1196	Engineered g-C ₃ N ₄ Quantum Dots for Tunable Two-Photon Imaging and Photodynamic Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 1998-2005.	2.3	42
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1212	Ag Loading Enhanced Photocatalytic Activity of g-C ₃ N ₄ Porous Nanosheets for Decomposition of Organic Pollutants. <i>Frontiers in Chemistry</i> , 2019, 7, 91.	1.8	71
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1246	Thermal chemical vapor deposition and luminescence property of graphitic carbon nitride film for carbon-based semiconductor systems. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 010907.	0.8	19
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1262	Preparation of tellurium doped graphitic carbon nitride and its visible-light photocatalytic performance on nitrogen fixation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 563, 263-270.	2.3	35
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1283	Surface and interface engineering of hierarchical photocatalysts. <i>Applied Surface Science</i> , 2019, 471, 43-87.	3.1	170
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1297	Skeletal tailoring of two-dimensional ĩ-conjugated polymer (g-C ₃ N ₄) through sodium salt for solar-light driven photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 373, 1-11.	2.0	15
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1973	Fabricating intramolecular donor-acceptor system via covalent bonding of carbazole to carbon nitride for excellent photocatalytic performance towards CO ₂ conversion. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 550-560.	5.0	18
1974	Stable Ni catalyst encapsulated in N-doped carbon nanotubes for one-pot reductive amination of nitroarenes with aldehydes. <i>Applied Catalysis A: General</i> , 2021, 622, 118230.	2.2	9
1975	Carrier engineering of carbon nitride boosts visible-light photocatalytic hydrogen evolution. <i>Carbon</i> , 2021, 179, 80-88.	5.4	52
1976	Size-Selective Photoelectrochemical Reactions in Microporous Environments: Clark Probe Investigation of Pt@g-C ₃ N ₄ Embedded into Intrinsically Microporous Polymer (PIM-1). <i>ChemElectroChem</i> , 2021, 8, 3499-3505.	1.7	6
1977	Recent progress and perspectives in heterogeneous photocatalytic CO ₂ reduction through a solid-gas mode. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213906.	9.5	93
1978	Carbon dots/Bi ₂ WO ₆ composite with compensatory photo-electronic effect for overall water photo-splitting at normal pressure. <i>Chinese Chemical Letters</i> , 2021, 32, 2283-2286.	4.8	23
1979	Phosphorus-containing g-C ₃ N ₄ photocatalysts for hydrogen evolution: A review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42136-42149.	3.8	17
1980	Role of alkali-cyano group interaction in g-C ₃ N ₄ based catalysts for hydrogen photo-production. <i>Catalysis Today</i> , 2022, 394-396, 25-33.	2.2	6
1981	Influence of B, Zn, and B-Zn doping on electronic structure and optical properties of g-C ₃ N ₄ photocatalyst: A first-principles study. <i>Results in Physics</i> , 2021, 26, 104338.	2.0	14
1982	Exciton Dissociation on Double Z-scheme Heterojunction for Photocatalytic Application. <i>ChemistrySelect</i> , 2021, 6, 6707-6713.	0.7	6
1983	In Situ Liquid-Phase Growth Strategies of g-C ₃ N ₄ Solar-Driven Heterogeneous Catalysts for Environmental Applications. <i>Solar Rrl</i> , 2021, 5, 2100233.	3.1	16
1984	High-Performance Electrochemical Sensor Based on Yttrium Sulfide Nanoparticles Decorated Carbon Nitride Heterostructure for Highly Sensitive Detection of Antimicrobial Drug in Biological Samples. <i>Journal of the Electrochemical Society</i> , 2021, 168, 077516.	1.3	10
1985	MoS ₂ based ternary composites: review on heterogeneous materials as catalyst for photocatalytic degradation. <i>Catalysis Reviews - Science and Engineering</i> , 2023, 65, 620-693.	5.7	28
1986	Direct Electrochemical Storage of Solar Energy in C-Rich Polymeric Carbon Nitride Cell. <i>Advanced Energy and Sustainability Research</i> , 0, , 2100111.	2.8	1
1987	Effective Photocatalytic Hydrogen Evolution Using Covalent Triazine Framework-Derived Carbon Nitride Nanofiber Containing Carbon Vacancies for Visible-Light-Driven. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7222.	1.3	2
1988	Improvement in performance of g-C ₃ N ₄ nanosheets blended PES ultrafiltration membranes including biological properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 623, 126571.	2.3	15
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1991	Construction of $\text{g-C}_3\text{N}_4$ -Ferrocene Copolymers for Enhanced Visible-Light Photocatalytic Activity. <i>ChemistrySelect</i> , 2021, 6, 8114-8119.	0.7	1
1992	Review on tungsten trioxide as a photocatalysts for degradation of recalcitrant pollutants. <i>Journal of Cleaner Production</i> , 2021, 309, 127438.	4.6	37
1993	Photocatalytic Hydrogen from Water Over Semiconductors. <i>Green Energy and Technology</i> , 2022, , 175-194.	0.4	0
1994	Ab initio study of photocatalytic characteristics of graphitic carbon nitride assisted by oxalic acid. <i>Journal of Molecular Modeling</i> , 2021, 27, 258.	0.8	0
1995	Photocatalytic CO ₂ conversion over single-atom MoN ₂ sites of covalent organic framework. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120146.	10.8	130
1996	Various Material Development Strategies for Suitable Catalysts of Photo Catalytic Water Splitting to Green Fuel H ₂ :A Critical Review. <i>Material Science Research India</i> , 2021, 18, 108-142.	0.9	3
1997	Review on application of perylene diimide (PDI)-based materials in environment: Pollutant detection and degradation. <i>Science of the Total Environment</i> , 2021, 780, 146483.	3.9	49
1998	Highly efficient photocatalytic NO removal and in situ DRIFTS investigation on SrSn(OH) ₆ . <i>Chinese Chemical Letters</i> , 2022, 33, 1259-1262.	4.8	22
1999	Graphene Oxide-Assisted Covalent Triazine Framework for Boosting Photocatalytic H ₂ Evolution. <i>Chemistry - A European Journal</i> , 2021, 27, 13059-13066.	1.7	8
2000	Degradation of diclofenac in water under LED irradiation using combined g-C ₃ N ₄ /NH ₂ -MIL-125 photocatalysts. <i>Journal of Hazardous Materials</i> , 2021, 416, 126199.	6.5	64
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2002	Layered graphitic carbon nitride: nano-heterostructures, photo/electro-chemical performance and trends. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 669-691.	5.3	34
2003	Recent advances in carbon nitride-based nanomaterials for hydrogen production and storage. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37490-37516.	3.8	11
2004	Ultrathin Crystalline Covalent-Triazine-Framework Nanosheets with Electron Donor Groups for Synergistically Enhanced Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2021, 133, 25585-25594.	1.6	8
2005	Factors affecting photocatalytic performance through the evolution of the properties due to the phase transition from NaBiO ₃ ·2H ₂ O to BiO ₂ ·x. <i>Frontiers in Energy</i> , 2022, 16, 471-482.	1.2	1
2006	Recent developments of perylene diimide (PDI) supramolecular photocatalysts: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 48, 100436.	5.6	66
2007	Current progress in polymeric graphitic carbon nitride-based photocatalysts for dye degradation. <i>Inorganic Chemistry Communication</i> , 2021, 131, 108786.	1.8	17

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2009	RuO ₂ Nanoparticle-Embedded Graphitic Carbon Nitride for Efficient Photocatalytic H ₂ Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 11700-11708.	2.4	17
2010	Photocatalytic water purification with graphitic C ₃ N ₄ -based composites: Enhancement, mechanisms, and performance. <i>Applied Materials Today</i> , 2021, 24, 101118.	2.3	13
2011	Construction of high-proportion ternary dual Z-scheme Co ₃ O ₄ /NiCo ₂ O ₄ /NiO photocatalytic system via incomplete solid phase chemical reactions of Co(OH) ₂ and Ni(OH) ₂ for organic pollutant degradation with simultaneous hydrogen production. <i>Journal of Power Sources</i> , 2021, 506, 230159.	4.0	31
2012	Novel nano-engineered environmental sensor based on polymelamine/graphitic-carbon nitride nanohybrid material for sensitive and simultaneous monitoring of toxic heavy metals. <i>Journal of Hazardous Materials</i> , 2021, 418, 126267.	6.5	44
2013	Unidirectional electron transport from graphitic-C ₃ N ₄ for novel remote and long-term photocatalytic anti-corrosion on Q235 carbon steel. <i>Chemical Engineering Journal</i> , 2022, 429, 132520.	6.6	15
2014	Donor Bandgap Engineering without Sacrificing the Reduction Ability of Photogenerated Electrons in Crystalline Carbon Nitride. <i>ChemSusChem</i> , 2021, 14, 4516-4524.	3.6	12
2015	Solar-Driven Glucose Isomerization into Fructose via Transient Lewis Acid-Base Active Sites. <i>ACS Catalysis</i> , 2021, 11, 12170-12178.	5.5	36
2016	Mild adsorption of carbon nitride (C ₃ N ₃) nanosheet on a cellular membrane reveals its suitable biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111896.	2.5	3
2017	Mesostructured g-C ₃ N ₄ nanosheets interconnected with V ₂ O ₅ nanobelts as electrode for coin-cell-type-asymmetric supercapacitor device. <i>Materials Today Energy</i> , 2021, 21, 100699.	2.5	29
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2020	Novel LaAOx/g-C ₃ N ₄ (A = V, Fe, Co) Heterojunctions with Enhanced Photocatalytic Degradation of Norfloxacin under Visible Light. <i>Crystals</i> , 2021, 11, 1173.	1.0	1
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2023	Effect of precursor on the hydrogen evolution activity and recyclability of Pd-Supported graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36210-36220.	3.8	12
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2027	Experimental Strategy and Mechanistic View to Boost the Photocatalytic Activity of Cs ₃ Bi ₂ Br ₉ Lead-Free Perovskite Derivative by g-C ₃ N ₄ Composite Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2104428.	7.8	53
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2029	A Case Study on a Soluble Dibenzothiophene-S,S-dioxide-Based Conjugated Polyelectrolyte for Photocatalytic Hydrogen Production: The Film versus the Bulk Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42753-42762.	4.0	14
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2031	Adsorption and photocatalytic removal of Rhodamine B from wastewater using carbon-based materials. <i>FlatChem</i> , 2021, 29, 100277.	2.8	43
2032	Interfacial Co-N bond bridged CoB/g-C ₃ N ₄ Schottky junction with modulated charge transfer dynamics for highly efficient photocatalytic <i>Staphylococcus aureus</i> inactivation. <i>Chemical Engineering Journal</i> , 2021, 422, 130029.	6.6	52
2033	Photo-assisted simultaneous electrochemical detection of multiple heavy metal ions with a metal-free carbon black anchored graphitic carbon nitride sensor. <i>Analytica Chimica Acta</i> , 2021, 1183, 338951.	2.6	32
2034	A review on graphitic carbon nitride (g-C ₃ N ₄) based hybrid membranes for water and wastewater treatment. <i>Science of the Total Environment</i> , 2021, 792, 148462.	3.9	51
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2038	Tailoring chemical structures and intermolecular interactions of melem intermediates for highly efficient photocatalytic hydrogen evolution of g-C ₃ N ₄ . <i>Applied Surface Science</i> , 2021, 563, 150384.	3.1	34
2039	Efficient solar light facilitated photo-oxidative detoxification of gaseous 2-chloroethyl ethyl sulfide on ZrO ₂ -doped g-C ₃ N ₄ under dry and humid air. <i>Chemosphere</i> , 2021, 280, 130685.	4.2	18
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2041	Enhanced Fenton-like catalytic performance of freestanding CuO nanowires by coating with g-C ₃ N ₄ nanosheets. <i>Separation and Purification Technology</i> , 2021, 272, 118850.	3.9	11
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2045	Single molecular precursors for C _x N _y materials- Blending of carbon and nitrogen beyond g-C ₃ N ₄ . <i>Carbon</i> , 2021, 183, 332-354.	5.4	30
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2047	Non-local dielectric screening effects in phosphorene/g-C ₃ N ₄ heterojunctions. <i>Applied Surface Science</i> , 2021, 567, 150842.	3.1	10
2048	Strategies to enhance photocatalytic activity of graphite carbon nitride-based photocatalysts. <i>Materials and Design</i> , 2021, 210, 110040.	3.3	51
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2050	Construction of binary donor-acceptor conjugated copolymer in g-C ₃ N ₄ for enhanced visible light-induced hydrogen evolution. <i>Applied Surface Science</i> , 2021, 565, 150012.	3.1	15
2051	Recent advances in crystalline carbon nitride for photocatalysis. <i>Journal of Materials Science and Technology</i> , 2021, 91, 224-240.	5.6	97
2052	Interfacial reconstruction of 2D/2D ZnIn ₂ S ₄ /HNb ₃ O ₈ through Nb-S bonds for efficient photocatalytic H ₂ evolution performance. <i>Materials and Design</i> , 2021, 209, 110007.	3.3	15
2053	Photocatalytic performance of g-C ₃ N ₄ based nanocomposites for effective degradation/removal of dyes from water and wastewater. <i>Materials Research Bulletin</i> , 2021, 143, 111417.	2.7	111
2054	B doped Bi ₂ O ₂ CO ₃ hierarchical microspheres: Enhanced photocatalytic performance and reaction mechanism for NO removal. <i>Catalysis Today</i> , 2021, 380, 230-236.	2.2	14
2055	Fabrication of oxygen vacancy-rich 3D/2D BiO _{1-x} Br/BiOCl heterostructures towards efficient charge separation for enhanced photodegradation activity. <i>Materials Research Bulletin</i> , 2021, 143, 111448.	2.7	14
2056	CoNi bimetallic alloy cocatalyst-modified g-C ₃ N ₄ nanosheets for efficient photocatalytic hydrogen production. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 158, 110228.	1.9	23
2057	Terminal p- π conjugation induced excited-state symmetry-breaking charge separation for porous carbon nitride based heterojunction. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160550.	2.8	7
2058	Structural and compositional tuning in g-C ₃ N ₄ based systems for photocatalytic antibiotic degradation. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100148.	2.4	43
2059	Construction of melem/g-C ₃ N ₄ /vermiculite hybrid photocatalyst with sandwich structure. <i>Applied Clay Science</i> , 2021, 213, 106242.	2.6	10
2060	Combining g-C ₃ N ₄ with CsPbI ₃ for efficient photocatalysis under visible light. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127310.	2.3	17
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2082	Recent advances in graphitic carbon nitride semiconductor: Structure, synthesis and applications. <i>Materials Science in Semiconductor Processing</i> , 2022, 137, 106181.	1.9	49
2083	Intramolecular heterostructured carbon nitride with heptazine-triazine for enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 428, 132579.	6.6	86
2084	Synergistic poly(lactic acid) photoreforming and H ₂ generation over ternary Ni _x Co _{1-x} P/reduced graphene oxide/g-C ₃ N ₄ composite. <i>Chemosphere</i> , 2022, 286, 131905.	4.2	27
2085	Peroxymonosulfate activation by graphitic carbon nitride co-doped with manganese, cobalt, and oxygen for degradation of trichloroethylene: Effect of oxygen precursors, kinetics, and mechanism. <i>Separation and Purification Technology</i> , 2021, 278, 119580.	3.9	13
2086	Oxygen-containing groups and P doped porous carbon nitride nanosheets towards enhanced photocatalytic activity. <i>Chemosphere</i> , 2022, 287, 132399.	4.2	9
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2100	Corrosion properties of organic polymer coating reinforced two-dimensional nitride nanostructures: a comprehensive review. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	19
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