

Functional carbon nitride materials “ design strategies

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Citation Report

#	ARTICLE	IF	CITATIONS
1	On the wrong side of history. <i>Nature Microbiology</i> , 2017, 2, 17046.	5.9	5
2	Comparative single atom heterogeneous catalysts (SAHCs) on different platforms: a theoretical approach. <i>Catalysis Science and Technology</i> , 2017, 7, 4285-4293.	2.1	36
3	Carbon nitrides: synthesis and characterization of a new class of functional materials. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15613-15638.	1.3	339
4	Pharaoh's Serpents: New Insights into a Classic Carbon Nitride Material. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1572-1580.	0.6	12
5	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13445-13449.	7.2	536
6	Graphitic carbon nitride (g-C ₃ N ₄)-based photocatalysts for solar hydrogen generation: recent advances and future development directions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23406-23433.	5.2	472
7	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017, 33, 54-82.	5.6	101
8	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. <i>Nanoscale</i> , 2017, 9, 16586-16590.	2.8	20
9	Highly permeable and antifouling reverse osmosis membranes with acidified graphitic carbon nitride nanosheets as nanofillers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19875-19883.	5.2	103
10	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. <i>Angewandte Chemie</i> , 2017, 129, 13630-13634.	1.6	135
11	Twinned Growth of Metal-Free, Triazine-Based Photocatalyst Films as Mixed-Dimensional (2D/3D) van der Waals Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1703399.	11.1	59
12	Metallfreie Borhaltige Heterogenkatalysatoren. <i>Angewandte Chemie</i> , 2017, 129, 15712-15724.	1.6	19
13	Metal-Free Boron-Containing Heterogeneous Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15506-15518.	7.2	114
14	Uncondensed Graphitic Carbon Nitride on Reduced Graphene Oxide for Oxygen Sensing via a Photoredox Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27142-27151.	4.0	28
15	Tailored Graphitic Carbon Nitride Nanostructures: Synthesis, Modification, and Sensing Applications. <i>Advanced Functional Materials</i> , 2017, 27, 1702695.	7.8	149
16	Emerging investigators series: advances and challenges of graphitic carbon nitride as a visible-light-responsive photocatalyst for sustainable water purification. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 982-1001.	1.2	33
17	Cross-Linked Graphitic Carbon Nitride with Photonic Crystal Structure for Efficient Visible-Light-Driven Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44503-44511.	4.0	31
18	One-step synthesis of graphitic carbon nitride nanosheets for efficient catalysis of phenol removal under visible light. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1711-1718.	6.9	22

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19	Recent advances in functional mesoporous graphitic carbon nitride (mpg-C ₃ /N ₄) polymers. <i>Nanoscale</i> , 2017, 9, 10544-10578.	2.8	189
20	Wet-Chemical Preparation of TiO ₂ -Based Composites with Different Morphologies and Photocatalytic Properties. <i>Nanomaterials</i> , 2017, 7, 310.	1.9	53
21	N-rich covalent organic polymer in situ modified TiO ₂ for highly efficient photocatalytic hydrogen evolution. <i>Science Bulletin</i> , 2018, 63, 369-375.	4.3	14
22	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
23	One-pot annealing preparation of Na-doped graphitic carbon nitride from melamine and organometallic sodium salt for enhanced photocatalytic H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13953-13961.	3.8	49
24	A facile approach to build Bi ₂ O ₂ CO ₃ /PCN nanohybrid photocatalysts for gaseous acetaldehyde efficient removal. <i>Catalysis Today</i> , 2018, 315, 184-193.	2.2	32
25	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. <i>National Science Review</i> , 2018, 5, 642-652.	4.6	132
26	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
27	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. <i>Angewandte Chemie</i> , 2018, 130, 6964-6968.	1.6	27
28	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6848-6852.	7.2	53
29	Efficient visible light-driven water oxidation and proton reduction by an ordered covalent triazine-based framework. <i>Energy and Environmental Science</i> , 2018, 11, 1617-1624.	15.6	212
30	Selective photocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxaldehyde by polymeric carbon nitride-hydrogen peroxide adduct. <i>Journal of Catalysis</i> , 2018, 359, 212-222.	3.1	68
31	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
32	Synthesis and Structure of Melamium Bromide C ₆ N ₁₁ H ₁₀ Br and Melamium Iodide C ₆ N ₁₁ H ₁₀ I. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 186-192.	0.6	6
33	Template-Induced High-Crystalline g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic H ₂ Evolution. <i>ACS Energy Letters</i> , 2018, 3, 514-519.	8.8	259
34	Engineering oxygen-containing and amino groups into two-dimensional atomically-thin porous polymeric carbon nitrogen for enhanced photocatalytic hydrogen production. <i>Energy and Environmental Science</i> , 2018, 11, 566-571.	15.6	304
35	Carbon, nitrogen and phosphorus containing metal-free photocatalysts for hydrogen production: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1305-1322.	5.2	144
36	Carbon nitride with electron storage property: Enhanced exciton dissociation for high-efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 99-106.	10.8	99

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38	Construction of hierarchical 2D-2D Zn ₃ In ₂ S ₆ /fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 58-69.	10.8	213
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41	Tumor-Targeted Graphitic Carbon Nitride Nanoassembly for Activatable Two-Photon Fluorescence Imaging. <i>Analytical Chemistry</i> , 2018, 90, 4649-4656.	3.2	49
42	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. <i>Chemical Reviews</i> , 2018, 118, 6337-6408.	23.0	1,552
43	Photocatalytic fixation of nitrogen to ammonia: state-of-the-art advancements and future prospects. <i>Materials Horizons</i> , 2018, 5, 9-27.	6.4	586
44	g-C ₃ N ₄ -Based Heterostructured Photocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1701503.	10.2	1,870
45	Photocatalytic Oxygen Evolution from Functional Triazine-Based Polymers with Tunable Band Structures. <i>Angewandte Chemie</i> , 2018, 130, 479-483.	1.6	75
46	The Reactivity of Cyameluric Chloride C ₆ N ₇ Cl ₃ towards Phosphines and Phosphine Oxides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 121-126.	0.6	8
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52	Photocatalytic Oxygen Evolution from Functional Triazine-Based Polymers with Tunable Band Structures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 470-474.	7.2	278
53	Structural and optical characterization of carbon nitride layers deposited by plasma assisted chemical vapor deposition at various conditions. <i>Thin Solid Films</i> , 2018, 646, 28-35.	0.8	2
54	Exploring the "Goldilocks Zone" of Semiconducting Polymer Photocatalysts by Donor-Acceptor Interactions. <i>Angewandte Chemie</i> , 2018, 130, 14384-14388.	1.6	22

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62	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. <i>Chemical Society Reviews</i> , 2018, 47, 7783-7817.	18.7	238
63	Exploring the "Goldilocks Zone" of Semiconducting Polymer Photocatalysts by Donor-Acceptor Interactions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14188-14192.	7.2	118
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65	Heterogeneous Organocatalysis for Photoredox Chemistry. <i>ACS Catalysis</i> , 2018, 8, 9790-9808.	5.5	165
66	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. <i>Nano Energy</i> , 2018, 50, 383-392.	8.2	226
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71	Makroskopische kristalline 2D-Polymere. <i>Angewandte Chemie</i> , 2018, 130, 13942-13959.	1.6	23
72	Towards Macroscopic Crystalline 2D Polymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13748-13763.	7.2	113

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74	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. <i>Carbon</i> , 2018, 138, 69-75.	5.4	20
75	Nanofluidic Ion Transport and Energy Conversion through Ultrathin Free-Standing Polymeric Carbon Nitride Membranes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10123-10126.	7.2	197
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77	Nanofluidic Ion Transport and Energy Conversion through Ultrathin Free-Standing Polymeric Carbon Nitride Membranes. <i>Angewandte Chemie</i> , 2018, 130, 10280-10283.	1.6	34
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80	Carbon Nitride Decorated Ball-Flower like Co ₃ O ₄ Hybrid Composite: Hydrothermal Synthesis and Ethanol Gas Sensing Application. <i>Nanomaterials</i> , 2018, 8, 132.	1.9	55
81	Controllable synthesis of graphitic carbon nitride nanomaterials for solar energy conversion and environmental remediation: the road travelled and the way forward. <i>Catalysis Science and Technology</i> , 2018, 8, 4576-4599.	2.1	99
82	Fluorescent Sulphur- and Nitrogen-Containing Porous Polymers with Tuneable Donor-Acceptor Domains for Light-Driven Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2018, 24, 11916-11921.	1.7	38
83	Electronic structure of heterojunction MoO ₂ /g-C ₃ N ₄ catalyst for oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 263-273.	10.8	178
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89	United in Nitride: The Highly Condensed Boron Phosphorus Nitride BP ₃ N ₆ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13202-13205.	7.2	29
90	Synthesis of Polymeric Carbon Nitride Films with Adhesive Interfaces for Solar Water Splitting Devices. <i>ACS Catalysis</i> , 2018, 8, 8774-8780.	5.5	72

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91	lonothermal Synthesis of Triazineâ€“Heptazineâ€“Based Copolymers with Apparent Quantum Yields of 60â€“% at 420â€“nm for Solar Hydrogen Production from â€œSea Waterâ€“. <i>Angewandte Chemie</i> , 2018, 130, 9516-9520.	1.6	73
92	Shining Light on Carbon Nitrides: Leveraging Temperature To Understand Optical Gap Variations. <i>Chemistry of Materials</i> , 2018, 30, 4253-4262.	3.2	28
93	Enhancement of photocatalytic hydrogen evolution activity of porous oxygen doped g-C3N4 with nitrogen defects induced by changing electron transition. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 30-38.	10.8	285
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100	Turn Off-On Electrochemiluminescence Sensor Based on MnO₂/Carboxylated Graphitic Carbon Nitride Nanocomposite for Ultrasensitive L-Cysteine Detection. <i>Journal of the Electrochemical Society</i> , 2019, 166, B994-B999.	1.3	15
101	Real-time optical and electronic sensing with a Î²-amino enone linked, triazine-containing 2D covalent organic framework. <i>Nature Communications</i> , 2019, 10, 3228.	5.8	117
102	Functional materials in desalination: A review. <i>Desalination</i> , 2019, 468, 114077.	4.0	111
103	Electrochemiluminescence for Characterizing the Polymerization Process during Graphitic Carbon Nitride Synthesis. <i>ChemElectroChem</i> , 2019, 6, 3742-3746.	1.7	10
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110	Synthesis of Thiocyanameluric Acid $C_6N_7S_3H_3$, Its Reaction to Alkali Metal Thiocyanamelurates and Organic Tris(dithio)cyanamelurates. <i>Chemistry - A European Journal</i> , 2019, 25, 15555-15564.	1.7	5
111	Dual-defect-modified graphitic carbon nitride with boosted photocatalytic activity under visible light. <i>Scientific Reports</i> , 2019, 9, 14873.	1.6	43
112	Highly Selective CO ₂ Capture and Its Direct Photochemical Conversion on Ordered 2D/1D Heterojunctions. <i>Joule</i> , 2019, 3, 2792-2805.	11.7	189
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128	Enzymes Immobilized on Carbon Nitride (C ₃ N ₄) Cooperating with Metal Nanoparticles for Cascade Catalysis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801664.	1.9	25
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131	Solid salt confinement effect: An effective strategy to fabricate high crystalline polymer carbon nitride for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 349-355.	10.8	136
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