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Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H2 production

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103	Improving the Surface Oxygen Vacancy Concentration of Bi2O4 through the Pretreatment of the NaBiO3[2H2O Precursor as a High-Performance Visible Light Photocatalyst.	О
102	Organosilica-assisted superhydrophilic oxygen doped graphitic carbon nitride for improved photocatalytic H2 evolution. 2022 ,	0
101	2D/2D Boron/g-C3N4 Nanosheet Heterojunction Boosts Photocatalytic Hydrogen Evolution Performance.	О
100	1D/2D Z-scheme WO3/g-C3N4 photocatalytic heterojunction with enhanced photo-induced charge-carries separation.	O
99	Construction of rGO-coupled C3N4/C3N5 2D/2D Z-scheme heterojunction to accelerate charge separation for efficient visible light H2 evolution. 2022 , 318, 121822	3
98	Defect engineering in polymeric carbon nitride with accordion structure for efficient photocatalytic CO2 reduction and H2 production. 2022 , 450, 138425	1
97	Improvement optical efficiency of modified g-C3N4 with soft templating agents as photocatalyst for photodegradation efficiency of pollutants, UVII is and fluorescence spectroscopy studies. 2022 , 133, 112908	1
96	In situ embedment of CoOx on g-C3N4 as Z scheme heterojunction for efficient photocatalytic degradation of methyl orange and phenol under visible light. 2022 , 927, 167047	4
95	Fast charge separation and transfer strategy in polymeric carbon nitride for efficient photocatalytic H2 evolution: Coupling surface Schottky junctions and interlayer charge transfer channels. 2022 , 103, 107767	0
94	Experimental and theoretical insights into an enhanced CO2 methanation mechanism over a Ru-based catalyst. 2022 , 319, 121903	1

93	Ultrafast charge-transfer at interfaces between 2D graphitic carbon nitride thin film and carbon fiber towards enhanced photocatalytic hydrogen evolution. 2022 , 606, 154938	O
92	Electrostatic potential of the incorporated asymmetry molecules induced high charge separation efficiency of the modified carbon nitride copolymers. 2022 , 319, 121922	O
91	Adjusting charge kinetics of conjugated polymers via integration of LSPR effect with homojunction. 2023 , 452, 139068	1
90	Synthesis of Novel Tetranuclear Ni Complex Incorporated Mesoporous Silica for Improved Photocatalytic Degradation of Methylene Blue in Presence of Visible Light.	O
89	Elongated Sn-Doped G-C3n4 as a Novel Photoelectrocatalyst for Water Oxidation.	0
88	Recent progress in the applications of non-metal modified graphitic carbon nitride in photocatalysis. 2023 , 474, 214846	2
87	Activating Pd Nanoparticles on Oxygen-Doped g-C3N4 for Visible Light-Driven Thermocatalytic Oxidation of Benzyl Alcohol. 2022 , 61, 15654-15663	1
86	Special sea urchin-like CdS/g-C3N4 photocatalyst with high specific surface area and efficient charge separation.	1
85	An eco-friendly acidic catalyst phosphorus-doped graphitic carbon nitride for efficient conversion of fructose to 5-Hydroxymethylfurfural. 2022 ,	0
84	Well-Defined Ultrasmall V-NiP2 Nanoparticles Anchored g-C3N4 Nanosheets as Highly Efficient Visible-Light-Driven Photocatalysts for H2 Evolution. 2022 , 12, 998	O
83	P-Doped g-C3N4 Nanosheet-Modified BiVO4 Hybrid Nanostructure as an Efficient Visible Light-Driven Water Splitting Photoanode.	0
82	Pd-Decorated Hierarchically Porous Carbon Nanofibers for Enhanced Selective Hydrogenation of Phenol. 2022 , 61, 13416-13430	O
81	Fabrication and Characterization of Sulphur-Doped Graphitic Carbon Nitride Nanosheets as a Highly Selective and Ultrasensitive Electrochemical Sensor for Detection of 2,4-Dinitrophenol in Real Gym Supplements.	Ο
80	Synthesis of novel tetranuclear Ni complex incorporated mesoporous silica for improved photocatalytic degradation of methylene blue in presence of visible light. 2022 , 116161	Ο
79	Metal-free N-GQDs/P-g-C3N4 photocatalyst with broad-spectrum response: Enhanced exciton dissociation and charge migration for promoting H2 evolution and tetracycline degradation. 2022 , 122297	Ο
78	Recent Advances in g-C3N4-Based DonorAcceptor Photocatalysts for Photocatalytic Hydrogen Evolution: An Exquisite Molecular Structure Engineering. 2166-2186	2
77	Oxygen-doped carbon nitride for enhanced photocatalytic activity in visible-light-induced decarboxylative annulation reactions. 2022 , 415, 28-36	Ο
76	A new approach on visible light assisted oxygen doped g-C3N4/Bi2O3 direct Z-scheme heterojunction towards the degradation of bisphenol A: Degradation pathway, toxicity assessment, and continuous mode study. 2022 , 303, 122171	O

75	Defect and Interface Control on Graphitic Carbon Nitrides/Upconversion Nanocrystals for Enhanced Solar Hydrogen Production. 2022 ,	О
74	Graphitic carbon nitride (g-C3N4)-based photocatalytic materials for hydrogen evolution. 10,	1
73	Advanced Sensing of Antibiotics with Sr@Se Flower-Like Structure on Phosphorus-Doped g-C3N4 Composite: Application towards Detection of Chloramphenicol in Food Samples. 2022 , 10, 425	O
72	Graphitic Carbon Nitride as Visible-Light Photocatalyst Boosting Ozonation in Wastewater Treatment. 2022 , 12, 3494	O
71	Decorating Phosphorus-Doped g-C 3 N 4 with Zinc Porphyrin Metal Drganic Framework via an Electrostatic Self-Assembly Process: An Efficient Strategy to Boost Photocatalytic Hydrogen Evolution Performance. 2200714	O
70	Simultaneous loading of Ni2P cocatalysts on the inner and outer surfaces of mesopores P-doped carbon nitride hollow spheres for enhanced photocatalytic water splitting activity.	O
69	A warm-white light-emitting diode based on single-component emitter aromatic carbon nitride. 2022 , 13,	O
68	Mesoporous graphitic carbon nitride/hydroxyapatite (g-C3N4/HAp) nanocomposites for highly efficient photocatalytic degradation of rhodamine B dye. 2022 , 33, 104788	1
67	Post-synthetic modification of graphitic carbon nitride with PCl3 and POCl3 for enhanced photocatalytic degradation of organic compounds. 2022 , 130, 109439	O
66	A CQD/CdS/g-C3N4 photocatalyst for dye and antibiotic degradation: Dual carrier driving force and tunable electron transfer pathway. 2023 , 305, 122333	O
65	Electron rich P doped g-C3N4 for photodegradation of 2,4-dichlorophenoxyacetic acid under visible light by improving oxygen adsorption: Performance and catalytic mechanism. 2023 , 306, 122562	O
64	Construction of Z-scheme Ag/AgCl/Bi2WO6 photocatalysts with enhanced visible-light photocatalytic performance for gaseous toluene degradation. 2023 , 610, 155598	1
63	Blue TiO2 with Tunable Oxygen-Vacancy Defects for Enhanced Photocatalytic Diesel Oil Degradation. 2022 , 155716	O
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61	Design of the Synergistic Rectifying Interfaces in MottBchottky Catalysts.	2
60	Interlayer Charge Transfer Over Graphitized Carbon Nitride Enabling Highly-Efficient Photocatalytic Nitrogen Fixation. 2205388	1
59	P-mediated Cu-N 4 sites in carbon nitride realizing CO 2 photoreduction to C 2 H 4 with selectivity modulation. 2208132	2
58	Facile Preparation of a Bispherical Silvertarbon Photocatalyst and Its Enhanced Degradation Efficiency of Methylene Blue, Rhodamine B, and Methyl Orange under UV Light. 2022 , 12, 3959	O

57	Synthesis of Z-scheme g-C3N4/WO3 nano-photocatalyst with superior antibacterial characteristics for wastewater treatment.	O
56	Phosphorus doped and defect modified graphitic carbon nitride for boosting photocatalytic hydrogen production. 2022 , 25, 117-123	O
55	Effective strategies for improved optoelectronic properties of graphitic carbon nitride: A review. 2023 , 5, 100699	O
54	In situ protonated-phosphorus interstitial doping induces long-lived shallow charge trapping in porous C3NN4 photocatalysts for highly efficient H2 generation.	1
53	Inside-and-out modification of graphitic carbon nitride (g-C3N4) photocatalysts via defect engineering for energy and environmental science. 2023 , 105, 108032	2
52	Low bandgap carbon nitride nanoparticles incorporated in titania nanotube arrays by in situ electrophoretic anodization for photocatalytic CO2 reduction. 2023 , 456, 141067	O
51	Synthesis of novel rare-earth cerium doped C3N4 nanocomposites for boosting photocatalytic H2 evolution. 2023 , 811, 140222	О
50	Toxic environmental drug nimesulide detection and degradation using the Bi-functional vanadium and phosphorous doped graphitic carbon nitride nanosheets. 2023 , 11, 109055	O
49	Framework structure engineering of polymeric carbon nitrides and its recent applications. 2023 , 133, 101056	1
48	N-doped synergistic porous thin-walled g-C3N4 nanotubes for efficient tetracycline photodegradation. 2022 , 140570	O
47	Design and Architecture of P-O Co-Doped Porous g-C3N4 by Supramolecular Self-Assembly for Enhanced Hydrogen Evolution. 2022 , 12, 1583	0
46	Non-Metal-Doped Porous Carbon Nitride Nanostructures for Photocatalytic Green Hydrogen Production. 2022 , 23, 15129	1
45	Synthesis of phosphorus-nitrogen hybrid flame retardant and investigation of its efficient flame-retardant behavior in PA6 / PA66.	0
44	Efficient Activation of Peroxymonosulfate by V-Doped Graphitic Carbon Nitride for Organic Contamination Remediation. 2022 , 15, 8936	O
43	Melamine-phytic acid derived supramolecular synthesis of g-C3N4 for enhanced solar hydrogen evolution. 2023 ,	0
42	Recent Trends in Plasmon-Assisted Photocatalytic CO2[Reduction.	O
41	Zn3Sb4O6F6 and KI-Doped Zn3Sb4O6F6: A Metal Oxyfluoride System for Photocatalytic Activity, Knoevenagel Condensation, and Bacterial Disinfection. 2023 , 62, 1032-1046	O
40	Extended £conjugated system in carbon nitride by incorporating pyridine rings and N vacancies for photocatalytic H2 evolution and H2O2 production. 2023 , 204, 465-474	O

39	Surface-assisted synthesis of biomass carbon-decorated polymer carbon nitride for efficient visible light photocatalytic hydrogen evolution. 2023 , 634, 1014-1023	O
38	Tuning of graphitic carbon nitride (g-C3N4) for photocatalysis: A critical review. 2023 , 16, 104542	1
37	Four-Component Synthesis of Spiro-Imidazolidines Enabled by Carbon Nitride Photocatalysis. 2023 , 13, 866-876	1
36	Doping of graphitic carbon nitride for photocatalysis. 2023 , 359-375	О
35	Hydrogen-Induced Defective Crystalline Carbon Nitride with Enhanced Bidirectional Charge Migration for Persulfate Photoactivation.	0
34	The synergistic effect of potassium ions and nitrogen defects on carbon nitride for enhanced photocatalytic hydrogen evolution. 2023 ,	О
33	Afterglow Electrochemiluminescence from Nitrogen-Deficient Graphitic Carbon Nitride. 2023 , 95, 2917-2924	О
32	Boosting exciton dissociation and charge transfer by regulating dielectric constant in polymer carbon nitride for CO2 photoreduction. 2023 , 327, 122417	O
31	Sn-doped g-C3N4 as a novel photoelectrocatalyst for water oxidation. 2023 , 176, 111242	O
30	Pt@Ni2P/C3N4 for charge acceleration to promote hydrogen evolution from ammonia-borane. 2023 ,	О
29	Dual P-doped-site modified porous g-C3N4 achieves high dissociation and mobility efficiency for photocatalytic H2O2 production. 2023 , 461, 142140	О
28	Efficient photosynthesis of H2O2 via two-electron oxygen reduction reaction by defective g-C3N4 with terminal cyano groups and nitrogen vacancies. 2023 , 463, 142512	O
27	Construction of g-C3N4 with N2C-type defects/MoO3 Z-scheme photocatalyst: Effective mineralization and toxicity reduction of microcystin-LR by multiple free radical degradation pathways. 2023 , 464, 142542	0
26	Metal derivative (MD)/g-C3N4 association in hydrogen production: A study on the fascinating chemistry behind, current trend & future direction. 2023 , 80, 562-583	О
25	Saccharin copolymerization-modified metal-free graphite carbon nitride for efficient photocatalytic removal of tetracycline hydrochloride in actual water samples: Process and mechanism. 2023 , 11, 109792	О
24	Alkali metal ion-doped heptazine-based g-C3N4 quantum dots for efficient adsorption of methyl blue: A DFT perspective. 2023 , 38, 102852	O
23	Biochar doped carbon nitride to enhance the photocatalytic hydrogen evolution through synergy of nitrogen vacancies and bridging carbon structure: Nanoarchitectonics and first-principles calculation. 2023 , 209, 117988	0
22	Controllably solar-driven C-C coupling organic synthesis integrated with H2 production over P-doped g-C3N4 with NiS nanoparticles modification. 2023 , 32, 101794	О

21	Enhancement of bifunctional photocatalytic activity of boron-doped g-C3N4/SnO2 heterojunction driven by plasmonic Ag quantum dots. 2023 , 22, 100325	O
20	Constructing photocatalysis-self-Fenton system over a defective twin C3N4: In-situ producing H2O2 and mineralizing organic pollutants. 2023 , 331, 122716	O
19	Improved performance of visible-light photocatalytic H2-production and Cr(VI) reduction by waste pigeon guano doped g-C3N4 nanosheets. 2023 , 152, 37-49	0
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17	Directional Charge Transfer Channels in a Monolithically Integrated Electrode for Photoassisted Overall Water Splitting. 2023 , 17, 3465-3482	1
16	More Accurate Method for Evaluating the Activity of Photocatalytic Hydrogen Evolution and Its Reaction Kinetics Equation. 2023 , 39, 3431-3438	O
15	Topologically Porous Heterostructures for Photo/Photothermal Catalysis of Clean Energy Conversion. 2023 , 7,	О
14	Boosting visible-light-driven photocatalytic performance by heterostructure of S-doped g-C3N4/MIL-101(Fe). 2023 , 151, 110616	O
13	Rapid elimination of antibiotic gemifloxacin mesylate and methylene blue over Pt nanoparticles dispersed chitosan/g-C3N4 ternary visible light photocatalyst.	O
12	Synergistic Functionality of Dopants and Defects in Co-Phthalocyanine/B-CN Z-Scheme Photocatalysts for Promoting Photocatalytic CO 2 Reduction Reactions. 2208179	O
11	Electromagnetic absorption behavior regulation in bimetallic polyphthalocyanine derived CoFe-alloy/C 0D/2D nanocomposites. 2023 , 33, 101058	0
10	Preparation of carbon nitride nanotubes with P-doping and their photocatalytic properties for hydrogen evolution. 2023 , 208, 290-302	O
9	Photocatalytic Overall Water Splitting Reaction Feature on Photodeposited NixP/EGa2O3 Nanosheets.	O
8	Synergistic effect of phosphorus doping and MoS2 co-catalysts on g-C3N4 photocatalysts for enhanced solar water splitting. 2023 , 158, 171-179	O
7	Advanced Functional Carbon Nitride by Implanting Semi-Isolated VO 2 Active Sites for Photocatalytic H 2 Production and Organic Pollutant Degradation.	O
6	Fabrication of a Concave Cubic Z-Scheme ZnIn2S4/Cu2O Heterojunction with Superior Light-Driven CO2 Reduction Performance. 2023 , 37, 6036-6048	O
5	Construction of PCN-222 and Atomically Thin 2D CNs Van Der Waals Heterojunction for Enhanced Visible Light Photocatalytic Hydrogen Production. 2023 , 13, 1318	О
4	Fabrication and characterization of Z-scheme BiOCl/C/Cu2O heterojunction nanocomposites as efficient catalysts for the photocatalytic reduction of CO2.	O

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The Photocatalytic Performance of P, Cl Doped Carboxylated Multiwalled Carbon Nanotube Modified Graphitic Carbon Nitride.

Polarization Reorientation of Carbon Nitride Induced by a Local Bridge Donor for Boosting Photocatalytic H2 Evolution Integrated with Selective Amine Oxidation.