

In Situ Bond Modulation of Graphitic Carbon Nitride to Enhanced Photocatalytic Hydrogen Production

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Superiority of graphene over carbon analogs for enhanced photocatalytic H ₂ -production activity of ZnIn ₂ S ₄ . Applied Catalysis B: Environmental, 2017, 206, 344-352.	10.8	156
2	Unravelling charge carrier dynamics in protonated g-C ₃ N ₄ interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO ₂ reduction: A combined experimental and first-principles DFT study. Nano Research, 2017, 10, 1673-1696.	5.8	376
3	Orientation controlled preparation of nanoporous carbon nitride fibers and related composite for gas sensing under ambient conditions. Nano Research, 2017, 10, 1710-1719.	5.8	33
4	Earth-abundant WC nanoparticles as an active noble-metal-free co-catalyst for the highly boosted photocatalytic H ₂ production over g-C ₃ N ₄ nanosheets under visible light. Catalysis Science and Technology, 2017, 7, 1193-1202.	2.1	114
5	The enhanced photocatalytic activity of g-C ₃ N ₄ -LaFeO ₃ for the water reduction reaction through a mediator free Z-scheme mechanism. Inorganic Chemistry Frontiers, 2017, 4, 1022-1032.	3.0	99
6	Exfoliated metal free homojunction photocatalyst prepared by a biomediated route for enhanced hydrogen evolution and Rhodamine B degradation. Materials Chemistry Frontiers, 2017, 1, 1641-1653.	3.2	49
7	MoS ₂ -coated microspheres of self-sensitized carbon nitride for efficient photocatalytic hydrogen generation under visible light irradiation. Applied Surface Science, 2017, 396, 1808-1815.	3.1	67
8	Fabrication of 3D quasi-hierarchical Z-scheme RGO-Fe ₂ O ₃ -MoS ₂ nanoheterostructures for highly enhanced visible-light-driven photocatalytic degradation. Applied Surface Science, 2017, 420, 669-680.	3.1	68
9	Two-channel photocatalytic production of H ₂ O ₂ over g-C ₃ N ₄ nanosheets modified with perylene imides. Journal of Catalysis, 2017, 352, 274-281.	3.1	193
10	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. ChemCatChem, 2017, 9, 4035-4042.	1.8	20
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12	Strategies for Efficient Solar Water Splitting Using Carbon Nitride. Chemistry - an Asian Journal, 2017, 12, 1421-1434.	1.7	72
13	One-pot Synthesis of CdS Irregular Nanospheres Hybridized with Oxygen-Incorporated Defect-Rich MoS ₂ Ultrathin Nanosheets for Efficient Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 23635-23646.	4.0	178
14	Mesoporous Ag@TiO ₂ nanofibers and their photocatalytic activity for hydrogen evolution. RSC Advances, 2017, 7, 30051-30059.	1.7	27
15	Facet effect of Pd cocatalyst on photocatalytic CO ₂ reduction over g-C ₃ N ₄ . Journal of Catalysis, 2017, 349, 208-217.	3.1	332
16	One-step green synthesis of nitrogen and phosphorus co-doped pitch-based porous graphene-like carbon for supercapacitors. Journal of Porous Materials, 2017, 24, 1689-1696.	1.3	16
17	Greatly enhanced photocatalytic activity by organic flexible piezoelectric PVDF induced spatial electric field. Catalysis Science and Technology, 2017, 7, 5594-5601.	2.1	42
18	Intermediate-mediated strategy to horn-like hollow mesoporous ultrathin g-C ₃ N ₄ tube with spatial anisotropic charge separation for superior photocatalytic H ₂ evolution. Nano Energy, 2017, 41, 738-748.	8.2	215

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20	Preparation of Carbon-Rich <i>g</i> -C ₃ N ₄ Nanosheets with Enhanced Visible Light Utilization for Efficient Photocatalytic Hydrogen Production. <i>Small</i> , 2017, 13, 1701552.	5.2	142
21	Nanoheterostructured photocatalysts for improving photocatalytic hydrogen production. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1295-1306.	6.9	114
22	A bifunctional NiCoP-based core/shell cocatalyst to promote separate photocatalytic hydrogen and oxygen generation over graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19025-19035.	5.2	151
23	Boosting molecular oxygen activation of SrTiO ₃ by engineering exposed facets for highly efficient photocatalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23822-23830.	5.2	47
24	<i>g</i> -C ₃ N ₄ Hydrogen-Bonding Viologen for Significantly Enhanced Visible-Light Photocatalytic H ₂ Evolution. <i>ACS Catalysis</i> , 2017, 7, 8228-8234.	5.5	131
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32	Flowing water enabled piezoelectric potential of flexible composite film for enhanced photocatalytic performance. <i>Chemical Engineering Journal</i> , 2018, 347, 263-272.	6.6	49
33	Epitaxial facet junctions on TiO ₂ single crystals for efficient photocatalytic water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 1444-1448.	15.6	102
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35	Enhancement of photocatalytic hydrogen evolution activity of <i>g</i> -C ₃ N ₄ induced by structural distortion via post-fluorination treatment. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 276-284.	10.8	33
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38	Different Morphologies of SnS ₂ Supported on 2D g-C ₃ N ₄ for Excellent and Stable Visible Light Photocatalytic Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2018, 6, 5132-5141.	3.2	125
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41	Bifunctional Cu ₃ P Decorated g-C ₃ N ₄ Nanosheets as a Highly Active and Robust Visible-Light Photocatalyst for H ₂ Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 4026-4036.	3.2	243
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56	g-C ₃ N ₄ -Based Heterostructured Photocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1701503.	10.2	1,870
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63	Alkali-assisted fabrication of holey carbon nitride nanosheet with tunable conjugated system for efficient visible-light-driven water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 877-885.	10.8	69
64	Self-assembled synthesis of defect-engineered graphitic carbon nitride nanotubes for efficient conversion of solar energy. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 154-161.	10.8	296
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69	Tuning Metal Catalyst with Metal-C ₃ N ₄ Interaction for Efficient CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2018, 8, 11035-11041.	5.5	161
70	Significantly Improved Photocatalytic Hydrogen Production Activity over Ultrafine Mesoporous TiO ₂ Nanofibers Photocatalysts. <i>ChemistrySelect</i> , 2018, 3, 10126-10132.	0.7	8
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74	Carbon Self-Doped Carbon Nitride Nanosheets with Enhanced Visible-Light Photocatalytic Hydrogen Production. <i>Catalysts</i> , 2018, 8, 366.	1.6	17
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76	Amino-Assisted Anchoring of CsPbBr ₃ Perovskite Quantum Dots on Porous g-C ₃ N ₄ for Enhanced Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13570-13574.	7.2	432
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80	Reconstructing Supramolecular Aggregates to Nitrogen-Deficient g-C ₃ N ₄ Bunchy Tubes with Enhanced Photocatalysis for H ₂ Production. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18746-18753.	4.0	97
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88	Defect Engineering Metal-Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10246-10250.	7.2	619
89	New two-dimensional porous graphitic carbon nitride nanosheets for highly efficient photocatalytic hydrogen evolution under visible-light irradiation. <i>Catalysis Science and Technology</i> , 2018, 8, 3846-3852.	2.1	32
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95	Preparation of Fe_2O_3 nanowires through electrospinning and their Ag_3PO_4 heterojunction composites with enhanced visible light photocatalytic activity. <i>Ferroelectrics</i> , 2018, 528, 58-65.	0.3	18
96	Kohlenstoffnitridmaterialien für photochemische Zellen zur Wasserspaltung. <i>Angewandte Chemie</i> , 2019, 131, 6198-6211.	1.6	19
97	Carbon Nitride Materials for Water Splitting Photoelectrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6138-6151.	7.2	205
98	Rational modulation of p-n homojunction in P-doped g-C ₃ N ₄ decorated with Ti ₃ C ₂ for photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118077.	10.8	94
99	Heterogeneous structural defects to prompt charge shuttle in g-C ₃ N ₄ plane for boosting visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118094.	10.8	97
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104	Bosk-like monocrystal of Co-Sn-Se grown on porous Ti for electrocatalytic hydrogen evolution. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15097-15104.	1.1	1
105	Facile fabrication of oxygen and carbon co-doped carbon nitride nanosheets for efficient visible light photocatalytic H_2 evolution and CO_2 reduction. <i>Dalton Transactions</i> , 2019, 48, 12070-12079.	1.6	21
106	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117931.	10.8	170
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110	Constructing of Z-scheme 3D g-C ₃ N ₄ -ZnO@graphene aerogel heterojunctions for high-efficient adsorption and photodegradation of organic pollutants. <i>Applied Surface Science</i> , 2019, 492, 808-817.	3.1	70
111	Constructing Sn(II)-doped SrNb ₂ O ₆ for visible light response driven H ₂ and O ₂ evolution from water. <i>Catalysis Science and Technology</i> , 2019, 9, 3619-3622.	2.1	4
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113	In situ self-assembly synthesis of carbon self-doped graphite carbon nitride hexagonal tubes with enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27354-27362.	3.8	25
114	Ultrasmall Co@Co(OH) ₂ Nanoclusters Embedded in N-Enriched Mesoporous Carbon Networks as Efficient Electrocatalysts for Water Oxidation. <i>ChemSusChem</i> , 2019, 12, 5117-5125.	3.6	26
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116	K and halogen binary-doped graphitic carbon nitride (g-C ₃ N ₄) toward enhanced visible light hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27704-27712.	3.8	44
117	Fully Conjugated Covalent Organic Polymer with Carbon-Encapsulated Ni ₂ P for Highly Sustained Photocatalytic H ₂ Production from Seawater. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41313-41320.	4.0	71
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119	Potassium-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16644-16650.	7.2	356
120	Three-Dimensional Hierarchical Porous Carbon/Graphitic Carbon Nitride Composites for Efficient Photocatalytic Hydrogen Production. <i>ChemCatChem</i> , 2019, 11, 6364-6371.	1.8	22
121	Structure Tuning of Polymeric Carbon Nitride for Solar Energy Conversion: From Nano to Molecular Scale. <i>CheM</i> , 2019, 5, 2775-2813.	5.8	78
122	Current understanding and challenges of solar-driven hydrogen generation using polymeric photocatalysts. <i>Nature Energy</i> , 2019, 4, 746-760.	19.8	638
123	Sandwich-Nanostructured n-Cu ₂ O/AuAg/p-Cu ₂ O Photocathode with Highly Positive Onset Potential for Improved Water Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38625-38632.	4.0	30
124	Synthesis of magnetic biomass carbon-based Bi ₂ O ₃ photocatalyst and mechanism insight by a facile microwave and deposition method. <i>New Journal of Chemistry</i> , 2019, 43, 2888-2898.	1.4	16
125	Highly Efficient Photoelectrochemical Water Splitting: Surface Modification of Cobalt-Phosphate-Loaded Co ₃ O ₄ /Fe ₂ O ₃ p-n Heterojunction Nanorod Arrays. <i>Advanced Functional Materials</i> , 2019, 29, 1801902.	7.8	220
126	Defects Promote Ultrafast Charge Separation in Graphitic Carbon Nitride for Enhanced Visible-Light-Driven CO ₂ Reduction Activity. <i>Chemistry - A European Journal</i> , 2019, 25, 5028-5035.	1.7	85

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