

Optimizing Optical Absorption, Exciton Dissociation, and Charge Transport in Carbon Nitride with Ultrahigh Solar Hydrogen Production

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Solar to Chemical Energy Conversion. Lecture Notes in Energy, 2016, , .	0.2	19
2	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. Nanoscale, 2017, 9, 16586-16590.	2.8	20
3	One-step hydrothermal synthesis of a novel 3D BiFeWO ₆ /Bi ₂ WO ₆ composite with superior visible-light photocatalytic activity. Green Chemistry, 2018, 20, 3014-3023.	4.6	51
4	Crystalline carbon nitride semiconductors prepared at different temperatures for photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2018, 231, 234-241.	10.8	227
5	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. Chemical Society Reviews, 2018, 47, 2298-2321.	18.7	488
6	New 2D Carbon Nitride Organic Materials Synthesis with Huge Application Prospects in CN Photocatalyst. Small, 2018, 14, e1704138.	5.2	47
7	Polymeric Carbon Nitride with Localized Aluminum Coordination Sites as a Durable and Efficient Photocatalyst for Visible Light Utilization. ACS Catalysis, 2018, 8, 4241-4256.	5.5	118
8	Preparation and characterization of expanded g-C ₃ N ₄ via rapid microwave-assisted synthesis. Diamond and Related Materials, 2018, 83, 109-117.	1.8	13
9	Carbon nitride creates thioamides in high yields by the photocatalytic Kindler reaction. Green Chemistry, 2018, 20, 838-842.	4.6	61
10	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. Nano Energy, 2018, 47, 66-73.	8.2	71
11	Template-free large-scale synthesis of g-C ₃ N ₄ microtubes for enhanced visible light-driven photocatalytic H ₂ production. Nano Research, 2018, 11, 3462-3468.	5.8	199
12	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
13	Toward a rational photocatalyst design: a new formation strategy of co-catalyst/semiconductor heterostructures via in situ exsolution. Chemical Communications, 2018, 54, 1505-1508.	2.2	39
14	Structuring phase junction between tri-s-triazine and triazine crystalline C ₃ N ₄ for efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 227, 153-160.	10.8	139
15	Carbon nitride with electron storage property: Enhanced exciton dissociation for high-efficient photocatalysis. Applied Catalysis B: Environmental, 2018, 236, 99-106.	10.8	99
16	Drastic promoting the visible photoreactivity of layered carbon nitride by polymerization of dicyandiamide at high pressure. Applied Catalysis B: Environmental, 2018, 232, 330-339.	10.8	123
17	A "waiting" carbon nitride radical anion: a charge storage material and key intermediate in direct C-H thiolation of methylarenes using elemental sulfur as the "S" source. Chemical Science, 2018, 9, 3584-3591.	3.7	94
18	A General Synthesis of Porous Carbon Nitride Films with Tunable Surface Area and Photophysical Properties. Angewandte Chemie - International Edition, 2018, 57, 1186-1192.	7.2	161

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19	A General Synthesis of Porous Carbon Nitride Films with Tunable Surface Area and Photophysical Properties. <i>Angewandte Chemie</i> , 2018, 130, 1200-1206.	1.6	26
20	Cobalt manganese spinel as an effective cocatalyst for photocatalytic water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 886-894.	10.8	78
21	Preparation of TiO ₂ /Bi ₂ WO ₆ nanostructured heterojunctions on carbon fibers as a weaveable visible-light photocatalyst/photoelectrode. <i>Environmental Science: Nano</i> , 2018, 5, 327-337.	2.2	80
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23	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2018, 9, 4968.	5.8	244
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26	Enhancement of Catalytic Properties by Adjusting Molecular Diffusion in Nanoporous Catalysts. <i>Advances in Catalysis</i> , 2018, , 1-47.	0.1	3
27	Single Pt Atom with Highly Vacant d-Orbital for Accelerating Photocatalytic H ₂ Evolution. <i>ACS Applied Energy Materials</i> , 2018, 1, 6082-6088.	2.5	93
28	Metal-Free Graphitic Carbon Nitride Photocatalyst Goes Into Two-Dimensional Time. <i>Frontiers in Chemistry</i> , 2018, 6, 551.	1.8	41
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30	Few Layered BiOBr with Expanded Interlayer Spacing and Oxygen Vacancies for Efficient Decomposition of Real Oil Field Produced Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13739-13746.	3.2	54
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32	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , 2018, 53, 296-336.	8.2	732
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34	Oxygen-doped carbon nitride aerogel: A self-supported photocatalyst for solar-to-chemical energy conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 428-435.	10.8	108
35	Photochemical Construction of Carbonitride Structures for Redox Light Redox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8674-8677.	7.2	93
36	Facile preparation of porous carbon nitride for visible light photocatalytic reduction and oxidation applications. <i>Journal of Materials Science</i> , 2018, 53, 11315-11328.	1.7	13

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37	Photochemical Construction of Carbonitride Structures for Red-Light Redox Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 8810-8813.	1.6	28
38	Ionothermal Synthesis of Triazine-Heptazine-Based Copolymers with Apparent Quantum Yields of 60% at 420 nm for Solar Hydrogen Production from Sea Water. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9372-9376.	7.2	369
39	Significant Enhancement of Visible-Light-Driven Hydrogen Evolution by Structure Regulation of Carbon Nitrides. <i>ACS Nano</i> , 2018, 12, 5221-5227.	7.3	194
40	Bandgap Engineering of Organic Semiconductors for Highly Efficient Photocatalytic Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1801084.	10.2	127
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43	Photoredox Catalytic Organic Transformations using Heterogeneous Carbon Nitrides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15936-15947.	7.2	339
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47	Photoredoxkatalytische organische Umwandlungen an heterogenen Kohlenstoffnitriden. <i>Angewandte Chemie</i> , 2018, 130, 16164-16176.	1.6	55
48	A dual-reaction-center Fenton-like process on Cu-Cu linkage between copper oxides and defect-containing g-C ₃ N ₄ for efficient removal of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17819-17828.	5.2	73
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50	Two-dimensional polymeric carbon nitride: structural engineering for optimizing photocatalysis. <i>Science China Chemistry</i> , 2018, 61, 1205-1213.	4.2	50
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56	Multifunctional C-Doped CoFe ₂ O ₄ Material as Cocatalyst to Promote Reactive Oxygen Species Generation over Magnetic Recyclable CoFe/AgX Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11968-11978.	3.2	42
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65	A significant enhancement of catalytic performance by adjusting catalyst wettability. <i>Science China Materials</i> , 2018, 61, 1137-1142.	3.5	22
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110	Oxamide-modified g-C ₃ N ₄ nanostructures: Tailoring surface topography for high-performance visible light photocatalysis. <i>Chemical Engineering Journal</i> , 2019, 374, 1064-1075.	6.6	218
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115	Accelerated Discovery of Organic Polymer Photocatalysts for Hydrogen Evolution from Water through the Integration of Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2019, 141, 9063-9071.	6.6	264
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