Guigang Zhang

List of Publications by Year in descending order

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60 papers	12,489 citations	50170 46 h-index	118652 62 g-index
63 all docs	63 docs citations	63 times ranked	9520 citing authors

#	Article	IF	Citations
1	Iodine Modified Carbon Nitride Semiconductors as Visible Light Photocatalysts for Hydrogen Evolution. Advanced Materials, 2014, 26, 805-809.	11.1	1,033
2	Polycondensation of thiourea into carbon nitride semiconductors as visible light photocatalysts. Journal of Materials Chemistry, 2012, 22, 8083.	6.7	876
3	Overall water splitting by Pt/g-C₃N₄photocatalysts without using sacrificial agents. Chemical Science, 2016, 7, 3062-3066.	3.7	835
4	Layered Nanojunctions for Hydrogenâ€Evolution Catalysis. Angewandte Chemie - International Edition, 2013, 52, 3621-3625.	7.2	793
5	Coâ€Monomer Control of Carbon Nitride Semiconductors to Optimize Hydrogen Evolution with Visible Light. Angewandte Chemie - International Edition, 2012, 51, 3183-3187.	7.2	744
6	Conjugated Polymers: Catalysts for Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2016, 55, 15712-15727.	7.2	703
7	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. Angewandte Chemie - International Edition, 2017, 56, 13445-13449.	7.2	536
8	A facile synthesis of Br-modified g-C3N4 semiconductors for photoredox water splitting. Applied Catalysis B: Environmental, 2016, 192, 116-125.	10.8	460
9	Synthesis of bulk and nanoporous carbon nitride polymers from ammonium thiocyanate for photocatalytic hydrogen evolution. Journal of Materials Chemistry, 2011, 21, 13032.	6.7	426
10	Synthesis of Carbon Nitride Semiconductors in Sulfur Flux for Water Photoredox Catalysis. ACS Catalysis, 2012, 2, 940-948.	5.5	397
11	Ionothermal Synthesis of Triazineâ€“Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60â€‰% at 420â€…nm for Solar Hydrogen Production from â€œSea Waterâ€. Angewandte Chemie - International Edition, 2018, 57, 9372-9376.	7.2	369
12	Layered Co(OH)₂ Deposited Polymeric Carbon Nitrides for Photocatalytic Water Oxidation. ACS Catalysis, 2015, 5, 941-947.	5.5	335
13	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO₂ Reduction. Angewandte Chemie - International Edition, 2019, 58, 3433-3437.	7.2	311
14	Surface engineering of graphitic carbon nitride polymers with cocatalysts for photocatalytic overall water splitting. Chemical Science, 2017, 8, 5261-5274.	3.7	299
15	Dispersing Molecular Cobalt in Graphitic Carbon Nitride Frameworks for Photocatalytic Water Oxidation. Small, 2015, 11, 1215-1221.	5.2	281
16	Reducing the Exciton Binding Energy of Donorâ€“Acceptorâ€Based Conjugated Polymers to Promote Chargeâ€Induced Reactions. Angewandte Chemie - International Edition, 2019, 58, 10236-10240.	7.2	278
17	Polymeric Carbon Nitride/Reduced Graphene Oxide/Fe₂O₃: Allâ€Solidâ€State Zâ€Scheme System for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 7102-7106.	7.2	268
18	Advancing the n â†' Ï€* electron transition of carbon nitride nanotubes for H₂photosynthesis. Journal of Materials Chemistry A, 2017, 5, 12723-12728.	5.2	224

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19	Condensed and low-defected graphitic carbon nitride with enhanced photocatalytic hydrogen evolution under visible light irradiation. Applied Catalysis B: Environmental, 2016, 181, 413-419.	10.8	217
20	A facile synthesis of covalent carbon nitride photocatalysts by Co-polymerization of urea and phenylurea for hydrogen evolution. Journal of Catalysis, 2013, 307, 246-253.	3.1	186
21	Integrating CdS quantum dots on hollow graphitic carbon nitride nanospheres for hydrogen evolution photocatalysis. Applied Catalysis B: Environmental, 2015, 179, 479-488.	10.8	178
22	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. Angewandte Chemie, 2017, 129, 13630-13634.	1.6	135
23	Room Temperature Synthesis of Heptazineâ€Based Microporous Polymer Networks as Photocatalysts for Hydrogen Evolution. Macromolecular Rapid Communications, 2013, 34, 1008-1013.	2.0	134
24	Layering MoS2 on soft hollow g-C3N4 nanostructures for photocatalytic hydrogen evolution. Applied Catalysis A: General, 2016, 521, 2-8.	2.2	125
25	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. Angewandte Chemie - International Edition, 2019, 58, 14950-14954.	7.2	120
26	Fully Condensed Poly (Triazine Imide) Crystals: Extended Ïâ€Conjugation and Structural Defects for Overall Water Splitting. Angewandte Chemie - International Edition, 2022, 61, .	7.2	114
27	Konjugierte Polymere: Katalysatoren fÃ¼r die photokatalytische Wasserstoffentwicklung. Angewandte Chemie, 2016, 128, 15940-15956.	1.6	110
28	Semiâ€heterogeneous Dual Nickel/Photocatalysis using Carbon Nitrides: Esterification of Carboxylic Acids with Aryl Halides. Angewandte Chemie - International Edition, 2019, 58, 9575-9580.	7.2	108
29	Ultrafine Cobalt Catalysts on Covalent Carbon Nitride Frameworks for Oxygenic Photosynthesis. ACS Applied Materials & Interfaces, 2016, 8, 2287-2296.	4.0	103
30	Mesoporous Carbon Nitrideâ€Tungsten Oxide Composites for Enhanced Photocatalytic Hydrogen Evolution. ChemSusChem, 2015, 8, 1404-1410.	3.6	98
31	Cobalt selenide: a versatile cocatalyst for photocatalytic water oxidation with visible light. Journal of Materials Chemistry A, 2015, 3, 17946-17950.	5.2	96
32	Surface Modification of Carbon Nitride Polymers by Coreâ€“Shell Nickel/Nickel Oxide Cocatalysts for Hydrogen Evolution Photocatalysis. ChemCatChem, 2015, 7, 2864-2870.	1.8	96
33	A â€œwaitingâ€•carbon nitride radical anion: a charge storage material and key intermediate in direct Câ€“H thiolation of methylarenes using elemental sulfur as the â€œSâ€•source. Chemical Science, 2018, 9, 3584-3591.	3.7	94
34	Oxysulfide Semiconductors for Photocatalytic Overall Water Splitting with Visible Light. Angewandte Chemie - International Edition, 2019, 58, 15580-15582.	7.2	83
35	Ionothermal Synthesis of Triazineâ€“Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60â€‰% at 420â€…nm for Solar Hydrogen Production from â€œSea Waterâ€• Angewandte Chemie, 2018, 130, 9516-9520.	1.6	73
36	Ionothermal Synthesis of Covalent Triazine Frameworks in a NaClâ€KClâ€ZnCl₂Eutectic Salt for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	67

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37	Ni-Co layered double hydroxides cocatalyst for sustainable oxygen photosynthesis. Applied Catalysis B: Environmental, 2017, 210, 454-461.	10.8	65
38	Polymeric Carbon Nitride/Reduced Graphene Oxide/Fe₂O₃: Allâ€Solidâ€State Zâ€Scheme System for Photocatalytic Overall Water Splitting. Angewandte Chemie, 2019, 131, 7176-7180.	1.6	64
39	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO₂ Reduction. Angewandte Chemie, 2019, 131, 3471-3475.	1.6	56
40	Enhancement of photocatalytic H2 evolution on pyrene-based polymer promoted by MoS2 and visible light. Applied Catalysis B: Environmental, 2019, 251, 102-111.	10.8	55
41	Molecular Triazineâ€“Heptazine Junctions Promoting Exciton Dissociation for Overall Water Splitting with Visible Light. Journal of Physical Chemistry C, 2021, 125, 9818-9826.	1.5	55
42	Green radicals of potassium poly(heptazine imide) using light and benzylamine. Journal of Materials Chemistry A, 2019, 7, 24771-24775.	5.2	54
43	Gradient Zn-Doped Poly Heptazine Imides Integrated with a van der Waals Homojunction Boosting Visible Light-Driven Water Oxidation Activities. ACS Catalysis, 2021, 11, 13463-13471.	5.5	54
44	Photocatalytic cyanation of carbon nitride scaffolds: Tuning band structure and enhancing the performance in green light driven C S bond formation. Applied Catalysis B: Environmental, 2018, 229, 249-253.	10.8	48
45	Advantages in Using Inexpensive CO₂ To Favor Photocatalytic Oxidation of Benzylamines. ACS Catalysis, 2020, 10, 7336-7342.	5.5	45
46	Visible-Light Flow Reactor Packed with Porous Carbon Nitride for Aerobic Substrate Oxidations. ACS Applied Materials & Interfaces, 2020, 12, 8176-8182.	4.0	40
47	The facile synthesis of graphitic carbon nitride from amino acid and urea for photocatalytic H2 production. Research on Chemical Intermediates, 2017, 43, 5137-5152.	1.3	38
48	Merging Surface Organometallic Chemistry with Graphitic Carbon Nitride Photocatalysis for CO₂ Photofixation. ChemCatChem, 2015, 7, 1422-1423.	1.8	33
49	Polymeric Donorâ€“Acceptor Heterostructures for Enhanced Photocatalytic H₂ Evolution without Using Pt Cocatalysts. Chemistry - A European Journal, 2019, 25, 6102-6107.	1.7	33
50	Molecular Design of Covalent Triazine Frameworks with Anisotropic Charge Migration for Photocatalytic Hydrogen Production. Small, 2022, 18, e2200129.	5.2	33
51	Reducing the Exciton Binding Energy of Donorâ€“Acceptorâ€Based Conjugated Polymers to Promote Chargeâ€Induced Reactions. Angewandte Chemie, 2019, 131, 10342-10346.	1.6	32
52	Molecular Junctions on Polymeric Carbon Nitrides with Enhanced Photocatalytic Performance. ChemSusChem, 2020, 13, 888-892.	3.6	22
53	Semiâ€heterogene duale Nickelâ€Photokatalyse mit Kohlenstoffnitriden: Veresterung von CarbonsÃuren mit Arylhalogeniden. Angewandte Chemie, 2019, 131, 9676-9681.	1.6	20
54	H₂ and CH₄ production from bio-alcohols using condensed poly(heptazine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.2	20

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55	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. Angewandte Chemie, 2019, 131, 15092-15096.	1.6	19
56	A 3D Hybrid Praseodymiumâ€“Antimonyâ€“Oxochloride Compound: Singleâ€Crystalâ€toâ€Singleâ€Crystal Transformation and Photocatalytic Properties. Chemistry - A European Journal, 2013, 19, 15396-15403.	1.7	15
57	Fully Condensed Poly (Triazine Imide) Crystals: Extended Ïâ€Conjugation and Structural Defects for Overall Water Splitting. Angewandte Chemie, 2022, 134, .	1.6	14
58	Ionothermal Synthesis of Covalent Triazine Frameworks in a NaClâ€KClâ€ZnCl₂Eutectic Salt for the Hydrogen Evolution Reaction. Angewandte Chemie, 2022, 134, .	1.6	7
59	Visibleâ€Lightâ€Driven Photochemical Activation of sp 3 Câˆ'H Bond for Hemiaminal Formation. Asian Journal of Organic Chemistry, 2018, 7, 2464-2467.	1.3	5
60	Oxysulfidâ€Halbleiter fÃ¼r die photokatalytische Wasserspaltung mit sichtbarem Licht. Angewandte Chemie, 2019, 131, 15726-15728.	1.6	3