

Lihua Lin

List of Publications by Year in descending order

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38
papers

10,034
citations

109264

35
h-index

276775

41
g-index

43
all docs

43
docs citations

43
times ranked

8470
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic Carbon Nitride Polymers toward Sustainable Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12868-12884.	7.2	1,223
2	Overall water splitting by Pt/g-C ₃ N ₄ photocatalysts without using sacrificial agents. <i>Chemical Science</i> , 2016, 7, 3062-3066.	3.7	835
3	Triazine-Based Crystalline Graphitic Carbon Nitrides for Highly Efficient Hydrogen Evolution Photocatalysis. <i>ACS Catalysis</i> , 2016, 6, 3921-3931.	5.5	756
4	Carbon-doped BN nanosheets for metal-free photoredox catalysis. <i>Nature Communications</i> , 2015, 6, 7698.	5.8	609
5	Helical Graphitic Carbon Nitrides with Photocatalytic and Optical Activities. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11926-11930.	7.2	543
6	Triazine-Based Crystalline Carbon Nitride Nanosheets for an Improved Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1700008.	11.1	541
7	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
8	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6164-6175.	7.2	481
9	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. <i>Nature Catalysis</i> , 2020, 3, 649-655.	16.1	427
10	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2019, 131, 6225-6236.	1.6	378
11	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
12	Sol Processing of Conjugated Carbon Nitride Powders for Thin Film Fabrication. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6297-6301.	7.2	354
13	Invisible Security Ink Based on Water-Soluble Graphitic Carbon Nitride Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2773-2777.	7.2	336
14	Carbon Nitride Aerogels for the Photoredox Conversion of Water. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10905-10910.	7.2	287
15	Crystalline carbon nitride semiconductors prepared at different temperatures for photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 234-241.	10.8	227
16	Biomimetic Donor-Acceptor Motifs in Conjugated Polymers for Promoting Exciton Splitting and Charge Separation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8729-8733.	7.2	190
17	Photocatalytic overall water splitting by conjugated semiconductors with crystalline poly(triazine) Tj ETQq1 1 0.784314 rgBT/Overlo	3.7	186
18	Formation of heterostructures via direct growth CN on h-BN porous nanosheets for metal-free photocatalysis. <i>Nano Energy</i> , 2017, 42, 58-68.	8.2	151

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19	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
20	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. <i>Trends in Chemistry</i> , 2020, 2, 813-824.	4.4	126
21	Polymeric Carbon Nitride with Localized Aluminum Coordination Sites as a Durable and Efficient Photocatalyst for Visible Light Utilization. <i>ACS Catalysis</i> , 2018, 8, 4241-4256.	5.5	118
22	Ultrafine Cobalt Catalysts on Covalent Carbon Nitride Frameworks for Oxygenic Photosynthesis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2287-2296.	4.0	103
23	Phenyl-doped graphitic carbon nitride: photoluminescence mechanism and latent fingerprint imaging. <i>Nanoscale</i> , 2017, 9, 17737-17742.	2.8	77
24	Isothermal 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</i> , 2018, 130, 9516-9520.	1.6	73
25	A perovskite oxide LaCoO_3 cocatalyst for efficient photocatalytic reduction of CO_2 with visible light. <i>Chemical Communications</i> , 2018, 54, 2272-2275.	2.2	72
26	Invisible Security Ink Based on Water-Soluble Graphitic Carbon Nitride Quantum Dots. <i>Angewandte Chemie</i> , 2016, 128, 2823-2827.	1.6	69
27	Carbon Nitride Aerogels for the Photoredox Conversion of Water. <i>Angewandte Chemie</i> , 2017, 129, 11045-11050.	1.6	69
28	Unprecedented Centimeter-Long Carbon Nitride Needles: Synthesis, Characterization and Applications. <i>Small</i> , 2018, 14, e1800633.	5.2	64
29	Design of a Unique Energy-Band Structure and Morphology in a Carbon Nitride Photocatalyst for Improved Charge Separation and Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 519-530.	3.2	60
30	Electronic properties and $4f \rightarrow 5d$ transitions in Ce-doped Lu_2SiO_5 : a theoretical investigation. <i>Journal of Materials Chemistry</i> , 2012, 22, 13723.	6.7	53
31	Cubic mesoporous carbon nitride polymers with large cage-type pores for visible light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16179-16188.	5.2	43
32	Enhanced Overall Water Splitting by a Zirconium-Doped TaON -Based Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202116573.	7.2	36
33	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
34	Thermal nitridation of triazine motifs to heptazine-based carbon nitride frameworks for use in visible light photocatalysis. <i>Chinese Journal of Catalysis</i> , 2015, 36, 2089-2094.	6.9	28
35	Biomimetic Donor-Acceptor Motifs in Conjugated Polymers for Promoting Exciton Splitting and Charge Separation. <i>Angewandte Chemie</i> , 2018, 130, 8865-8869.	1.6	26
36	First-Principles Study on Structural Properties and $4f \rightarrow 5d$ Transitions of Locally Charge-Compensated Ce^{3+} in CaF_2 . <i>Journal of Physical Chemistry C</i> , 2012, 116, 18419-18426.	1.5	22

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37	Role of Dopants on the Local Electronic Structure of Polymeric Carbon Nitride Photocatalysts. <i>Small Methods</i> , 2021, 5, e2000707.	4.6	11
38	Enhanced Overall Water Splitting by a Zirconium-Doped TaON-Based Photocatalyst. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2