

Jian Liu

List of Publications by Year in descending order

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70
papers

9,632
citations

87843

38
h-index

88593

70
g-index

73
all docs

73
docs citations

73
times ranked

13538
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. <i>Energy and Environmental Science</i> , 2012, 5, 6717.	15.6	1,552
2	Nanoporous Graphitic-C ₃ N ₄ @Carbon Metal-Free Electrocatalysts for Highly Efficient Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2011, 133, 20116-20119.	6.6	958
3	Molecular-based design and emerging applications of nanoporous carbon spheres. <i>Nature Materials</i> , 2015, 14, 763-774.	13.3	838
4	Graphitic carbon nitride ‐reloaded‐ emerging applications beyond (photo)catalysis. <i>Chemical Society Reviews</i> , 2016, 45, 2308-2326.	18.7	763
5	Facile Oxygen Reduction on a Three‐Dimensionally Ordered Macroporous Graphitic C ₃ N ₄ /Carbon Composite Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3892-3896.	7.2	588
6	From unstable CsSnI ₃ to air-stable Cs ₂ SnI ₆ : A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 227-234.	3.0	388
7	Enhanced photovoltaic performance and stability with a new type of hollow 3D perovskite {en}FASn ₃ . <i>Science Advances</i> , 2017, 3, e1701293.	4.7	325
8	An Engineered Superhydrophilic/Superaerophobic Electrocatalyst Composed of the Supported CoMoS _x /Chalcogel for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1659-1665.	7.2	268
9	Confined Synthesis of Two-Dimensional Covalent Organic Framework Thin Films within Superspreading Water Layer. <i>Journal of the American Chemical Society</i> , 2018, 140, 12152-12158.	6.6	231
10	Bio-inspired NADH regeneration by carbon nitride photocatalysis using diatom templates. <i>Energy and Environmental Science</i> , 2013, 6, 1486.	15.6	214
11	Nitrogenase-mimic iron-containing chalcogels for photochemical reduction of dinitrogen to ammonia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5530-5535.	3.3	211
12	Efficient Z-scheme photocatalysts of ultrathin g-C ₃ N ₄ -wrapped Au/TiO ₂ -nanocrystals for enhanced visible-light-driven conversion of CO ₂ with H ₂ O. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118314.	10.8	206
13	Uniform Graphitic Carbon Nitride Nanorod for Efficient Photocatalytic Hydrogen Evolution and Sustained Photoenzymatic Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8434-8440.	4.0	184
14	Microcontact‐Printing‐Assisted Access of Graphitic Carbon Nitride Films with Favorable Textures toward Photoelectrochemical Application. <i>Advanced Materials</i> , 2015, 27, 712-718.	11.1	177
15	Construction of Fully Conjugated Covalent Organic Frameworks via Facile Linkage Conversion for Efficient Photoenzymatic Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 5958-5963.	6.6	177
16	Ultrasensitive DNA Detection Using Photonic Crystals. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7258-7262.	7.2	160
17	Interfacial synthesis of ordered and stable covalent organic frameworks on amino-functionalized carbon nanotubes with enhanced electrochemical performance. <i>Chemical Communications</i> , 2017, 53, 6303-6306.	2.2	147
18	Facile synthesis of carbon-doped mesoporous anatase TiO ₂ for the enhanced visible-light driven photocatalysis. <i>Chemical Communications</i> , 2014, 50, 13971-13974.	2.2	143

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19	Enhancement of photochemical hydrogen evolution over Pt-loaded hierarchical titania photonic crystal. <i>Energy and Environmental Science</i> , 2010, 3, 1503.	15.6	139
20	Bio-inspired carbon nitride mesoporous spheres for artificial photosynthesis: photocatalytic cofactor regeneration for sustainable enzymatic synthesis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7686-7693.	5.2	100
21	Graphitic carbon nitride doped SnO ₂ enabling efficient perovskite solar cells with PCEs exceeding 22%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2644-2653.	5.2	98
22	Hierarchically Macro-/Mesoporous Ti ^{IV} /Si Oxides Photonic Crystal with Highly Efficient Photocatalytic Capability. <i>Environmental Science & Technology</i> , 2009, 43, 9425-9431.	4.6	97
23	Biomimetic polymeric semiconductor based hybrid nanosystems for artificial photosynthesis towards solar fuels generation via CO ₂ reduction. <i>Nano Energy</i> , 2016, 25, 128-135.	8.2	97
24	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient N-type Organic Thermoelectrics. <i>Advanced Materials</i> , 2021, 33, e2006694.	11.1	91
25	Preparation of N-Graphdiyne Nanosheets at Liquid/Liquid Interface for Photocatalytic NADH Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2740-2744.	4.0	89
26	Single cobalt atom anchored on carbon nitride with well-defined active sites for photo-enzyme catalysis. <i>Nano Energy</i> , 2020, 73, 104750.	8.2	79
27	Carbon nitride nanosheets as visible light photocatalytic initiators and crosslinkers for hydrogels with thermoresponsive turbidity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8933-8938.	5.2	75
28	Porous Carbon Nitride Thin Strip: Precise Carbon Doping Regulating Delocalized π -Electron Induces Elevated Photocatalytic Hydrogen Evolution. <i>Small</i> , 2021, 17, e2006622.	5.2	73
29	The bioinspired construction of an ordered carbon nitride array for photocatalytic mediated enzymatic reduction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14699-14705.	1.3	72
30	In Situ Synthesis of Highly Dispersed and Ultrafine Metal Nanoparticles from Chalcogels. <i>Journal of the American Chemical Society</i> , 2017, 139, 2900-2903.	6.6	68
31	Hierarchical TiO ₂ photonic crystal spheres prepared by spray drying for highly efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 541-547.	5.2	66
32	Graphitic Carbon Nitride Films: Emerging Paradigm for Versatile Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53571-53591.	4.0	57
33	Bioinspired NADH Regeneration Based on Conjugated Photocatalytic Systems. <i>Solar Rrl</i> , 2021, 5, 2000339.	3.1	56
34	Encapsulation of lipase in mesoporous silica yolk-shell spheres with enhanced enzyme stability. <i>RSC Advances</i> , 2013, 3, 22008.	1.7	54
35	Hierarchical optical antenna: Gold nanoparticle-modified photonic crystal for highly-sensitive label-free DNA detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 8127.	6.7	50
36	Preparation of Hydrophilic Conjugated Microporous Polymers for Efficient Visible Light-Driven Nicotinamide Adenine Dinucleotide Regeneration and Photobiocatalytic Formaldehyde Reduction. <i>ACS Catalysis</i> , 2020, 10, 12976-12986.	5.5	50

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37	Construction of Thiazolo[5,4- <i>d</i>]thiazole-based Two-Dimensional Network for Efficient Photocatalytic CO ₂ Reduction. ACS Applied Materials & Interfaces, 2020, 12, 46483-46489.	4.0	43
38	Bioinspired Metalation of the Metal-Organic Framework MIL-125-NH ₂ for Photocatalytic NADH Regeneration and Gas-Liquid-Solid Three-Phase Enzymatic CO ₂ Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	41
39	Facile synthesis of carbon nitride micro-/nanoclusters with photocatalytic activity for hydrogen evolution. RSC Advances, 2013, 3, 22988.	1.7	40
40	Flexible asymmetric supercapacitor with high energy density based on optimized MnO ₂ cathode and Fe ₂ O ₃ anode. Chinese Chemical Letters, 2019, 30, 750-756.	4.8	39
41	Facile Fabrication of Tough SiC Inverse Opal Photonic Crystals. Journal of Physical Chemistry C, 2010, 114, 22303-22308.	1.5	38
42	<i>In situ</i> generation of supported palladium nanoparticles from a Pd/Sn/S chalcogel and applications in 4-nitrophenol reduction and Suzuki coupling. Journal of Materials Chemistry A, 2019, 7, 4446-4450.	5.2	34
43	Bioinspired Atomic Manganese Site Accelerates Oxo-Dehydrogenation of N-Heterocycles over a Conjugated Tri-s-Triazine Framework. ACS Catalysis, 2021, 11, 313-322.	5.5	33
44	Surface Engineering of Carbon Nitride Electrode by Molecular Cobalt Species and Their Photoelectrochemical Application. Chemistry - an Asian Journal, 2018, 13, 1539-1543.	1.7	30
45	High flux photocatalytic self-cleaning nanosheet C ₃ N ₄ membrane supported by cellulose nanofibers for dye wastewater purification. Nano Research, 2021, 14, 2568-2573.	5.8	30
46	Microfluidic chip-based one-step fabrication of an artificial photosystem I for photocatalytic cofactor regeneration. RSC Advances, 2016, 6, 101974-101980.	1.7	29
47	Synthesis of dense MoS ₂ nanosheet layers on hollow carbon spheres and their applications in supercapacitors and the electrochemical hydrogen evolution reaction. Inorganic Chemistry Frontiers, 2018, 5, 2198-2204.	3.0	29
48	Construction of frustrated Lewis pairs on TiO _{2-x} derived from perovskite for enhanced photocatalytic CO ₂ reduction. Chemical Engineering Journal, 2022, 427, 131554.	6.6	28
49	Aquatic plant inspired hierarchical artificial leaves for highly efficient photocatalysis. Journal of Materials Chemistry A, 2013, 1, 7760.	5.2	27
50	Facile assembly of a graphitic carbon nitride film at an air/water interface for photoelectrochemical NADH regeneration. Inorganic Chemistry Frontiers, 2020, 7, 2434-2442.	3.0	23
51	Confined Interfacial Synthesis of Highly Crystalline and Ultrathin Graphdiyne Films and Their Applications for N ₂ Fixation. Chemistry - A European Journal, 2020, 26, 7801-7807.	1.7	22
52	Bio-directed morphology engineering towards hierarchical 1D to 3D macro/meso/nanosopic morph-tunable carbon nitride assemblies for enhanced artificial photosynthesis. Journal of Materials Chemistry A, 2017, 5, 2195-2203.	5.2	21
53	Methanol Oxidation to Formate on ALD-Prepared VO _x /Al ₂ O ₃ Catalysts: A Mechanistic Study. Journal of Physical Chemistry C, 2017, 121, 26794-26805.	1.5	17
54	In-situ Construction of Superhydrophilic g-C ₃ N ₄ Film by Vapor-Assisted Confined Deposition for Photocatalysis. Frontiers in Materials, 2019, 6, .	1.2	17

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55	Investigation of Water-Stable Perovskite DMASnBr_3 for Photoenzyme Catalysis in Aqueous Solution. <i>Solar Rrl</i> , 2020, 4, 2000559.	3.1	17
56	Facile Assembly of a Large-Area BNNSs Film for Oxidation/Corrosion-Resistant Coatings. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800750.	1.9	14
57	Controllable synthesis for highly dispersed ruthenium clusters confined in nitrogen doped carbon for efficient hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 205-212.	5.0	14
58	Reversibly phototunable TiO_2 photonic crystal modulated by Ag nanoparticles' oxidation/reduction. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	13
59	Guanidine carbonate assisted supramolecular self-assembly for synthesizing porous g-C $_3$ N $_4$ for enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19939-19947.	3.8	13
60	Rational engineering of superaerophobic CoMoSx electrocatalysts for overall water splitting. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 623, 126734.	2.3	13
61	An Engineered Superhydrophilic/Superaerophobic Electrocatalyst Composed of the Supported CoMoS Chalcogel for Overall Water Splitting. <i>Angewandte Chemie</i> , 2020, 132, 1676-1682.	1.6	12
62	Visible-Light-Driven Photocatalytic Water Disinfection Toward Escherichia coli by Nanowired g-C $_3$ N $_4$ Film. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	2.4	8
63	Biomedical Applications of Metal-Organic Frameworks at the Subcellular Level. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100034.	1.7	8
64	Organic dye-sensitized sponge-like TiO_2 photoanode for dye-sensitized solar cells. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120314.	1.6	7
65	Efficient and synergistic decolourization and nitrate removal using a single-chamber with a coupled biocathode-photoanode system. <i>Bioelectrochemistry</i> , 2020, 132, 107439.	2.4	7
66	Iron-doping Accelerating NADH Oxidation over Carbon Nitride. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1076-1082.	1.3	7
67	Synthesis of atomic platinum with high loading on metal-organic sulfide. <i>Science China Materials</i> , 2022, 65, 1294-1302.	3.5	6
68	Bio-inspired double-layer structure artificial microreactor with highly efficient light harvesting for photocatalysts. <i>RSC Advances</i> , 2015, 5, 11096-11100.	1.7	4
69	Biomimetic high-flux proton pump constructed with asymmetric polymeric carbon nitride membrane. <i>Nano Research</i> , 2023, 16, 18-24.	5.8	4
70	Bioinspired Metalation of the Metal-Organic Framework MIL-125-NH $_2$ for Photocatalytic NADH Regeneration and Gas-Liquid-Solid Three-Phase Enzymatic CO $_2$ Reduction. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3