Zhi-Jun Li

List of Publications by Year
in descending order

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73 papers	5,259 citations	81434 41 h-index	93651 72 g-index
80 all docs	80 docs citations	80 times ranked	7285 citing authors

#	Article	IF	Citations
1	Comparative study of metal oxides and phosphate modification with different mechanisms over g-C3N4 for visible-light photocatalytic degradation of metribuzin. Rare Metals, 2022, 41, 155-165.	3.6	50
2	Interface Modulation of FePc/Porous Ti(HPO₄)₂ Zâ€Scheme Heterojunctions with Ultrafine Ag for Efficiently Photocatalytic CO Oxidation. Small Structures, 2022, 3, .	6.9	9
3	N-Rich Doped Anatase TiO2 with Smart Defect Engineering as Efficient Photocatalysts for Acetaldehyde Degradation. Nanomaterials, 2022, 12, 1564.	1.9	8
4	Synthesis of mixed-valence Cu phthalocyanine/graphene/g-C₃N₄ ultrathin heterojunctions as efficient photocatalysts for CO₂ reduction. Catalysis Science and Technology, 2022, 12, 4817-4825.	2.1	6
5	Synergetic Subnano Niâ€and Mnâ€Oxo Clusters Anchored by Chitosan Oligomers on 2D gâ€C 3 N 4 Boost Photocatalytic CO 2 Reduction. Solar Rrl, 2021, 5, 2000472.	3.1	20
6	Au-Modulated Z-Scheme CuPc/BiVO₄ Nanosheet Heterojunctions toward Efficient CO₂ Conversion under Wide-Visible-Light Irradiation. ACS Sustainable Chemistry and Engineering, 2021, 9, 2400-2408.	3.2	20
7	Controlled Construction of Copper Phthalocyanine/Î±â€Fe₂O₃ Ultrathin Sâ€Scheme Heterojunctions for Efficient Photocatalytic CO₂ Reduction under Wide Visibleâ€Light Irradiation. Small Science, 2021, 1, 2100050.	5.8	34
8	Energy Platform for Directed Charge Transfer in the Cascade Zâ€Scheme Heterojunction: CO₂ Photoreduction without a Cocatalyst. Angewandte Chemie, 2021, 133, 21074-21082.	1.6	23
9	Energy Platform for Directed Charge Transfer in the Cascade Zâ€Scheme Heterojunction: CO₂ Photoreduction without a Cocatalyst. Angewandte Chemie - International Edition, 2021, 60, 20906-20914.	7.2	132
10	Solar-Driven Lignin Oxidation via Hydrogen Atom Transfer with a Dye-Sensitized TiO₂ Photoanode. ACS Energy Letters, 2020, 5, 777-784.	8.8	56
11	Improved Photocatalytic Activity of Porous In2O3 by co-Modifying Nanosized CuO and Ag with Synergistic Effects. Chemical Research in Chinese Universities, 2020, 36, 1116-1121.	1.3	7
12	Enhanced singlet oxygen generation by hybrid Mn-doped nanocomposites for selective photo-oxidation of benzylic alcohols. Nano Research, 2020, 13, 1668-1676.	5.8	20
13	Ultrafine SnO₂/010 Facet-Exposed BiVO₄ Nanocomposites as Efficient Photoanodes for Controllable Conversion of 2,4-Dichlorophenol via a Preferential Dechlorination Path. ACS Applied Materials & Interfaces, 2020, 12, 28264-28272.	4.0	19
14	Decoupling and Coupling of the Hostâ€“Dopant Interaction by Manipulating Dopant Movement in Core/Shell Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 5992-5999.	2.1	18
15	Visible-light induced disproportionation of pyrrole derivatives for photocatalyst-free aryl halides reduction. Green Chemistry, 2020, 22, 1911-1918.	4.6	24
16	Innentitelbild: Dimensionâ€Matched Zinc Phthalocyanine/BiVO₄ Ultrathin Nanocomposites for CO₂ Reduction as Efficient Wideâ€Visibleâ€Lightâ€Driven Photocatalysts via a Cascade Charge Transfer (Angew. Chem. 32/2019). Angewandte Chemie, 2019, 131, 10878-10878.	1.6	0
17	Improved Photoactivities of Largeâ€surfaceâ€area gâ€C₃N₄ for CO₂ Conversion by Controllably Introducing Coâ€and Niâ€Species to Effectively Modulate Photogenerated Charges. ChemCatChem, 2019, 11, 6282-6287.	1.8	15
18	Review on Photogenerated Hole Modulation Strategies in Photoelectrocatalysis for Solar Fuel Production. ChemCatChem, 2019, 11, 5875-5884.	1.8	17

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19	Dimensionâ€Matched Zinc Phthalocyanine/BiVO₄ Ultrathin Nanocomposites for CO₂ Reduction as Efficient Wideâ€Visibleâ€Lightâ€Driven Photocatalysts via a Cascade Charge Transfer. Angewandte Chemie, 2019, 131, 10989-10994.	1.6	44
20	Dimensionâ€Matched Zinc Phthalocyanine/BiVO₄ Ultrathin Nanocomposites for CO₂ Reduction as Efficient Wideâ€Visibleâ€Lightâ€Driven Photocatalysts via a Cascade Charge Transfer. Angewandte Chemie - International Edition, 2019, 58, 10873-10878.	7.2	168
21	Improved visible-light photoactivities of porous LaFeO₃ by coupling with nanosized alkaline earth metal oxides and mechanism insight. Catalysis Science and Technology, 2019, 9, 3149-3157.	2.1	40
22	Exciton Energy Shifts and Tunable Dopant Emission in Manganese-Doped Two-Dimensional CdS/ZnS Core/Shell Nanoplatelets. Chemistry of Materials, 2019, 31, 2516-2523.	3.2	48
23	Review of strategies for the fabrication of heterojunctional nanocomposites as efficient visible-light catalysts by modulating excited electrons with appropriate thermodynamic energy. Journal of Materials Chemistry A, 2019, 7, 10879-10897.	5.2	98
24	Photocatalytic Hydrogen Evolution: Susceptible Surface Sulfide Regulates Catalytic Activity of CdSe Quantum Dots for Hydrogen Photogeneration (Adv. Mater. 7/2019). Advanced Materials, 2019, 31, 1970048.	11.1	1
25	Susceptible Surface Sulfide Regulates Catalytic Activity of CdSe Quantum Dots for Hydrogen Photogeneration. Advanced Materials, 2019, 31, e1804872.	11.1	55
26	Synthesis of Silicateâ€Bridged Heterojunctional SnO₂/BiVO₄ Nanoplates as Efficient Photocatalysts to Convert CO₂ and Degrade 2,4â€Dichlorophenol. Particle and Particle Systems Characterization, 2018, 35, 1700320.	1.2	13
27	Photoelectrochemically Active and Environmentally Stable CsPbBr₃/TiO₂ Core/Shell Nanocrystals. Advanced Functional Materials, 2018, 28, 1704288.	7.8	413
28	General Strategy for the Growth of CsPbX₃ (X = Cl, Br, I) Perovskite Nanosheets from the Assembly of Nanorods. Chemistry of Materials, 2018, 30, 3854-3860.	3.2	75
29	Direct synthesis of sulfide capped CdS and CdS/ZnS colloidal nanocrystals for efficient hydrogen evolution under visible light irradiation. Journal of Materials Chemistry A, 2018, 6, 16328-16332.	5.2	29
30	Complete Dopant Substitution by Spinodal Decomposition in Mn-Doped Two-Dimensional CsPbCl₃ Nanoplatelets. Chemistry of Materials, 2018, 30, 6400-6409.	3.2	97
31	A Redox Shuttle Accelerates O₂ Evolution of Photocatalysts Formed In Situ under Visible Light. Advanced Materials, 2017, 29, 1606009.	11.1	48
32	Self-Assembled Framework Enhances Electronic Communication of Ultrasmall-Sized Nanoparticles for Exceptional Solar Hydrogen Evolution. Journal of the American Chemical Society, 2017, 139, 4789-4796.	6.6	146
33	Enhanced visible-light-driven hydrogen generation by in situ formed photocatalyst RGOâ€“CdSâ€“Ni_xS from metal salts and RGOâ€“CdS composites. Journal of Materials Chemistry A, 2017, 5, 9537-9543.	5.2	29
34	Prolonged lifetime and enhanced separation of photogenerated charges of nanosized Î±-Fe2O3 by coupling SnO2 for efficient visible-light photocatalysis to convert CO2 and degrade acetaldehyde. Nano Research, 2017, 10, 2321-2331.	5.8	44
35	Direct synthesis of all-inorganic heterostructured CdSe/CdS QDs in aqueous solution for improved photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2017, 5, 10365-10373.	5.2	89
36	Controlled Dopant Migration in CdS/ZnS Core/Shell Quantum Dots. Journal of the American Chemical Society, 2017, 139, 8878-8885.	6.6	90

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37	Identifying key intermediates generated in situ from Cu(II) saltâ€“catalyzed Câ€“H functionalization of aromatic amines under illumination. Science Advances, 2017, 3, e1700666.	4.7	40
38	Interface Engineering of Mn-Doped ZnSe-Based Core/Shell Nanowires for Tunable Hostâ€“Dopant Coupling. ACS Nano, 2017, 11, 12591-12600.	7.3	45
39	Nonstoichiometric Cu_xIn_yS Quantum Dots for Efficient Photocatalytic Hydrogen Evolution. ChemSusChem, 2017, 10, 4833-4838.	3.6	45
40	Coupling of Nanocrystalline Anatase TiO2 to Porous Nanosized LaFeO3 for Efficient Visible-Light Photocatalytic Degradation of Pollutants. Nanomaterials, 2016, 6, 22.	1.9	35
41	Improved Photoelectrocatalytic Performance for Water Oxidation by Earth-Abundant Cobalt Molecular Porphyrin Complex-Integrated BiVO₄ Photoanode. ACS Applied Materials & Interfaces, 2016, 8, 18577-18583.	4.0	92
42	Tracking Co(I) Intermediate in Operando in Photocatalytic Hydrogen Evolution by X-ray Transient Absorption Spectroscopy and DFT Calculation. Journal of Physical Chemistry Letters, 2016, 7, 5253-5258.	2.1	44
43	Comparison of H₂ photogeneration by [FeFe]-hydrogenase mimics with CdSe QDs and Ru(bpy)₃Cl₂ in aqueous solution. Energy and Environmental Science, 2016, 9, 2083-2089.	15.6	65
44	Solar Energy Conversion: Holeâ€Acceptingâ€Ligandâ€Modified CdSe QDs for Dramatic Enhancement of Photocatalytic and Photoelectrochemical Hydrogen Evolution by Solar Energy (Adv. Sci. 4/2016). Advanced Science, 2016, 3, .	5.6	1
45	Holeâ€Acceptingâ€Ligandâ€Modified CdSe QDs for Dramatic Enhancement of Photocatalytic and Photoelectrochemical Hydrogen Evolution by Solar Energy. Advanced Science, 2016, 3, 1500282.	5.6	60
46	Exceptional Visible-Light Activities of TiO₂-Coupled N-Doped Porous Perovskite LaFeO₃ for 2,4-Dichlorophenol Decomposition and CO₂ Conversion. Environmental Science & Technology, 2016, 50, 13600-13610.	4.6	146
47	Protonated Graphitic Carbon Nitride with Surface Attached Molecule as Hole Relay for Efficient Photocatalytic O₂ Evolution. ACS Catalysis, 2016, 6, 8336-8341.	5.5	44
48	An Oxidant-Free Strategy for Indole Synthesis via Intramolecular Câ€“C Bond Construction under Visible Light Irradiation: Cross-Coupling Hydrogen Evolution Reaction. ACS Catalysis, 2016, 6, 4635-4639.	5.5	102
49	Combining visible light catalysis and transfer hydrogenation for in situ efficient and selective semihydrogenation of alkynes under ambient conditions. Chemical Communications, 2016, 52, 1800-1803.	2.2	42
50	Polymer-modified hydrophilic graphene: A promotor to photocatalytic hydrogen evolution for in situ formation of core@shell cobalt nanocomposites. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 331, 247-254.	2.0	13
51	Visible light-induced photochemical oxygen evolution from water by 3,4,9,10-perylenetetracarboxylic dianhydride nanorods as an n-type organic semiconductor. Catalysis Science and Technology, 2016, 6, 672-676.	2.1	16
52	Solution-processable graphenes by covalent functionalization of graphene oxide with polymeric monoamines. Science China Chemistry, 2016, 59, 1018-1024.	4.2	3
53	Activation of Cï£¿H Bonds through Oxidantâ€Free Photoredox Catalysis: Crossâ€Coupling Hydrogenâ€Evolution Transformation of Isochromans and Î²â€Keto Esters. Chemistry - A European Journal, 2015, 21, 18080-18084.	1.7	85
54	The singlet excited state of BODIPY promoted aerobic cross-dehydrogenative-coupling reactions under visible light. Chemical Communications, 2015, 51, 11256-11259.	2.2	91

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55	A solution-processed, mercaptoacetic acid-engineered CdSe quantum dot photocathode for efficient hydrogen production under visible light irradiation. Energy and Environmental Science, 2015, 8, 1443-1449.	15.6	90
56	Enhanced Driving Force and Charge Separation Efficiency of Protonated g-C₃N₄ for Photocatalytic O₂ Evolution. ACS Catalysis, 2015, 5, 6973-6979.	5.5	414
57	Vectorial Electron Transfer for Improved Hydrogen Evolution by Mercaptopropionicâ€Acidâ€Regulated CdSe Quantumâ€Dotsâ€“TiO₂â€“Ni(OH)₂ Assembly. ChemSusChem, 2015, 8, 642-649.	3.6	39
58	Enhanced photocatalytic hydrogen evolution by combining water soluble graphene with cobalt salts. Beilstein Journal of Nanotechnology, 2014, 5, 1167-1174.	1.5	12
59	Mechanistic Insights into the Interfaceâ€Directed Transformation of Thiols into Disulfides and Molecular Hydrogen by Visibleâ€Light Irradiation of Quantum Dots. Angewandte Chemie - International Edition, 2014, 53, 2085-2089.	7.2	205
60	Photocatalytic Hydrogen Evolution from Glycerol and Water over Nickelâ€Hybrid Cadmium Sulfide Quantum Dots under Visibleâ€Light Irradiation. ChemSusChem, 2014, 7, 1468-1475.	3.6	91
61	Enhancement of the Efficiency of Photocatalytic Reduction of Protons to Hydrogen via Molecular Assembly. Accounts of Chemical Research, 2014, 47, 2177-2185.	7.6	237
62	Cross-Coupling Hydrogen Evolution Reaction in Homogeneous Solution without Noble Metals. Organic Letters, 2014, 16, 1988-1991.	2.4	147
63	Visible Light Catalysis-Assisted Assembly of Ni_h-QD Hollow Nanospheres in Situ via Hydrogen Bubbles. Journal of the American Chemical Society, 2014, 136, 8261-8268.	6.6	74
64	Interface-directed assembly of a simple precursor of [FeFe]â€“H2ase mimics on CdSe QDs for photosynthetic hydrogen evolution in water. Energy and Environmental Science, 2013, 6, 2597.	15.6	115
65	A Cascade Cross-Coupling Hydrogen Evolution Reaction by Visible Light Catalysis. Journal of the American Chemical Society, 2013, 135, 19052-19055.	6.6	250
66	A robust â€œartificial catalystâ€•in situ formed from CdTe QDs and inorganic cobalt salts for photocatalytic hydrogen evolution. Energy and Environmental Science, 2013, 6, 465-469.	15.6	120
67	Chitosan confinement enhances hydrogen photogeneration from a mimic of the diiron subsite of [FeFe]-hydrogenase. Nature Communications, 2013, 4, 2695.	5.8	159
68	Water-soluble sulfonatedâ€“grapheneâ€“platinum nanocomposites: facile photochemical preparation with enhanced catalytic activity for hydrogen photogeneration. Catalysis Science and Technology, 2013, 3, 1815.	2.1	20
69	Facile Synthesis of Phosphateâ€Functionalized MWCNTâ€“TiO₂ Nanocomposites as Efficient Photocatalysts and Insights into the Roles of Nanostructured Carbon. ChemPlusChem, 2013, 78, 670-676.	1.3	7
70	Photocatalysis: An Exceptional Artificial Photocatalyst, Ni_hâ€CdSe/CdS Core/Shell Hybrid, Made In Situ from CdSe Quantum Dots and Nickel Salts for Efficient Hydrogen Evolution (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	11.1	2
71	An Exceptional Artificial Photocatalyst, Ni_hâ€CdSe/CdS Core/Shell Hybrid, Made In Situ from CdSe Quantum Dots and Nickel Salts for Efficient Hydrogen Evolution. Advanced Materials, 2013, 25, 6613-6618.	11.1	140
72	Graphene-Supported RuO₂ Nanoparticles for Efficient Aerobic Cross-Dehydrogenative Coupling Reaction in Water. Organic Letters, 2012, 14, 5992-5995.	2.4	62

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73	A triad [FeFe] hydrogenase system for light-driven hydrogen evolution. Chemical Communications, 2011, 47, 8406.	2.2	50