

Zhuangqun Huang

List of Publications by Year in descending order

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33
papers

3,031
citations

257450

24
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434195

31
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all docs

33
docs citations

33
times ranked

4151
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Light-Driven Carbon-Free Cobalt-Based Molecular Catalyst for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2011, 133, 2068-2071.	13.7	336
2	Homogeneous Light-Driven Water Oxidation Catalyzed by a Tetra-ruthenium Complex with All Inorganic Ligands. <i>Journal of the American Chemical Society</i> , 2009, 131, 7522-7523.	13.7	330
3	Photoinduced Ultrafast Electron Transfer from CdSe Quantum Dots to Re-bipyridyl Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 5632-5633.	13.7	231
4	Ultrafast Charge Separation at CdS Quantum Dot/Rhodamine B Molecule Interface. <i>Journal of the American Chemical Society</i> , 2007, 129, 15132-15133.	13.7	225
5	Multiple Exciton Dissociation in CdSe Quantum Dots by Ultrafast Electron Transfer to Adsorbed Methylene Blue. <i>Journal of the American Chemical Society</i> , 2010, 132, 4858-4864.	13.7	212
6	Exciton Dissociation in CdSe Quantum Dots by Hole Transfer to Phenothiazine. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19734-19738.	3.1	164
7	Exceptionally Long-Lived Charge Separated State in Zeolitic Imidazolate Framework: Implication for Photocatalytic Applications. <i>Journal of the American Chemical Society</i> , 2016, 138, 8072-8075.	13.7	155
8	Efficient Water-Splitting Device Based on a Bismuth Vanadate Photoanode and Thin-Film Silicon Solar Cells. <i>ChemSusChem</i> , 2014, 7, 2832-2838.	6.8	149
9	Cs ₉ [(³ -PW10O36)2Ru4O5(OH)(H2O)4], a new all-inorganic, soluble catalyst for the efficient visible-light-driven oxidation of water. <i>Chemical Communications</i> , 2010, 46, 2784.	4.1	145
10	In situ probe of photocarrier dynamics in water-splitting hematite (¹ -Fe2O3) electrodes. <i>Energy and Environmental Science</i> , 2012, 5, 8923.	30.8	121
11	In Situ and Operando Investigations of Failure Mechanisms of the Solid Electrolyte Interphase on Silicon Electrodes. <i>ACS Energy Letters</i> , 2016, 1, 689-697.	17.4	116
12	Competition between Energy and Electron Transfer from CdSe QDs to Adsorbed Rhodamine B. <i>Journal of Physical Chemistry C</i> , 2010, 114, 962-969.	3.1	115
13	Electron Transfer Dynamics in Semiconductor-Chromophore-Polyoxometalate Catalyst Photoanodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 918-926.	3.1	108
14	Comparison of Electron-Transfer Dynamics from Coumarin 343 to TiO ₂ , SnO ₂ , and ZnO Nanocrystalline Thin Films: Role of Interface-Bound Charge-Separated Pairs. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6560-6566.	3.1	89
15	Synthesis and Characterization of a Metal-to-Polyoxometalate Charge Transfer Molecular Chromophore. <i>Journal of the American Chemical Society</i> , 2011, 133, 20134-20137.	13.7	81
16	Solar-Driven H ₂ O Generation From H ₂ O and O ₂ Using Earth-Abundant Mixed-Metal Oxide@Carbon Nitride Photocatalysts. <i>ChemSusChem</i> , 2016, 9, 2470-2479.	6.8	75
17	Atomic force microscopy with nanoelectrode tips for high resolution electrochemical, nano-adhesion and nanoelectrical imaging. <i>Nanotechnology</i> , 2017, 28, 095711.	2.6	58
18	Insights into Photoinduced Electron Transfer between [Ru(bpy) ₃] ²⁺ and [S ₂ O ₈] ²⁻ in Water: Computational and Experimental Studies. <i>Journal of Physical Chemistry A</i> , 2010, 114, 73-80.	2.5	51

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19	Polyoxometalates in the Design of Effective and Tunable Water Oxidation Catalysts. <i>Israel Journal of Chemistry</i> , 2011, 51, 238-246.	2.3	37
20	Spectroscopic Studies of Light-driven Water Oxidation Catalyzed by Polyoxometalates. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 11850-11859.	3.7	37
21	Gradient dopant profiling and spectral utilization of monolithic thin-film silicon photoelectrochemical tandem devices for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4155-4162.	10.3	35
22	Synthesis, structure, and characterization of two polyoxometalate-photosensitizer hybrid materials. <i>Inorganica Chimica Acta</i> , 2010, 363, 4381-4386.	2.4	34
23	Strain-Induced Lithium Losses in the Solid Electrolyte Interphase on Silicon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28406-28417.	8.0	31
24	Insights into Photoinduced Electron Transfer Between [Ru(mptpy) ₂] ⁴⁺ (mptpy) Tj ETQqO O 0 rgBT /Overlock Computational and Experimental Studies. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6284-6297.	2.5	27
25	Transition Metal Substitution Effects on Metal-to-Polyoxometalate Charge Transfer. <i>Inorganic Chemistry</i> , 2016, 55, 4308-4319.	4.0	24
26	Comparison between the measured and modeled hydrogen-evolution activity of Ni- or Pt-coated silicon photocathodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16220-16226.	7.1	13
27	A low-temperature synthesis of electrochemical active Pt nanoparticles and thin films by atomic layer deposition on Si(111) and glassy carbon surfaces. <i>Thin Solid Films</i> , 2015, 586, 28-34.	1.8	11
28	Probing electromechanical behaviors by datacube piezoresponse force microscopy in ambient and aqueous environments. <i>Nanotechnology</i> , 2019, 30, 235701.	2.6	9
29	Interfacial charge transfer dynamics in TiO ₂ -sensitizer-Ru ₄ POM photocatalytic systems for water oxidation. , 2011, , .		5
30	Atomic Force Microscopy for Solar Fuels Research: An Introductory Review. <i>Energy and Environment Focus</i> , 2015, 4, 260-277.	0.3	5
31	Structural and mechanistic studies of tunable, stable, fast multi-cobalt water oxidation catalysts. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
32	Probing Nanoscale Electromechanical Behaviors of Relaxor Ferroelectrics in Highly Conductive Liquid Environments. <i>Physical Review Applied</i> , 2019, 11, .	3.8	1
33	Nanoelectrochemistry and Nanoelectrics at Electrode/Electrolyte Interface. <i>Microscopy and Microanalysis</i> , 2018, 24, 1044-1045.	0.4	0