

Bing Shan

List of Publications by Year in descending order

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26
papers

852
citations

471509

17
h-index

552781

26
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26
all docs

26
docs citations

26
times ranked

1330
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary molecular-semiconductor p-n junctions for photoelectrocatalytic CO ₂ reduction. <i>Nature Energy</i> , 2019, 4, 290-299.	39.5	149
2	Mechanistic Details for Cobalt Catalyzed Photochemical Hydrogen Production in Aqueous Solution: Efficiencies of the Photochemical and Non-Photochemical Steps. <i>Inorganic Chemistry</i> , 2013, 52, 4853-4859.	4.0	82
3	Layer-by-Layer Molecular Assemblies for Dye-Sensitized Photoelectrosynthesis Cells Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2017, 139, 14518-14525.	13.7	55
4	Steering CO ₂ electroreduction toward ethanol production by a surface-bound Ru polypyridyl carbene catalyst on N-doped porous carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26353-26358.	7.1	55
5	Stable Molecular Photocathode for Solar-Driven CO ₂ Reduction in Aqueous Solutions. <i>ACS Energy Letters</i> , 2019, 4, 629-636.	17.4	54
6	Water Photo-oxidation Initiated by Surface-Bound Organic Chromophores. <i>Journal of the American Chemical Society</i> , 2017, 139, 16248-16255.	13.7	52
7	Controlling Vertical and Lateral Electron Migration Using a Bifunctional Chromophore Assembly in Dye-Sensitized Photoelectrosynthesis Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 6493-6500.	13.7	48
8	Modulating Hole Transport in Multilayered Photocathodes with Derivatized p-Type Nickel Oxide and Molecular Assemblies for Solar-Driven Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4374-4379.	4.6	47
9	Electrocatalytic CO ₂ Reduction with a Ruthenium Catalyst in Solution and on Nanocrystalline TiO ₂ . <i>ChemSusChem</i> , 2019, 12, 2402-2408.	6.8	37
10	A Silicon-Based Heterojunction Integrated with a Molecular Excited State in a Water-Splitting Tandem Cell. <i>Journal of the American Chemical Society</i> , 2019, 141, 10390-10398.	13.7	34
11	A Molecular Silane-Derivatized Ru(II) Catalyst for Photoelectrochemical Water Oxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 15062-15069.	13.7	29
12	Generation of Long-Lived Redox Equivalents in Self-Assembled Bilayer Structures on Metal Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5882-5890.	3.1	24
13	Direct photoactivation of a nickel-based, water-reduction photocathode by a highly conjugated supramolecular chromophore. <i>Energy and Environmental Science</i> , 2018, 11, 447-455.	30.8	23
14	Electron-Withdrawing Boron Dipyrromethene Dyes As Visible Light Absorber/Sensitizers on Semiconductor Oxide Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7768-7776.	8.0	23
15	Completing a Charge Transport Chain for Artificial Photosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 9823-9826.	13.7	20
16	Charge Transfer from Upconverting Nanocrystals to Semiconducting Electrodes: Optimizing Thermodynamic Outputs by Electronic Energy Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 463-471.	13.7	19
17	Photochemical Generation of Strong One-Electron Reductants via Light-Induced Electron Transfer with Reversible Donors Followed by Cross Reaction with Sacrificial Donors. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10400-10406.	2.5	18
18	Stable Molecular Surface Modification of Nanostructured, Mesoporous Metal Oxide Photoanodes by Silane and Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4560-4567.	8.0	18

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19	Photocathode Chromophoreâ€“Catalyst Assembly via Layer-By-Layer Deposition of a Low Band-Gap Isoindigo Conjugated Polyelectrolyte. ACS Applied Energy Materials, 2018, 1, 62-67.	5.1	12
20	Promoting electrochemical reduction of CO ₂ to ethanol by B/N-doped sp ³ /sp ² nanocarbon electrode. Chinese Chemical Letters, 2022, 33, 4691-4694.	9.0	12
21	Synthesis and Photophysical Properties of a Covalently Linked Porphyrin Chromophoreâ€“Ru(II) Water Oxidation Catalyst Assembly on SnO ₂ Electrodes. Journal of Physical Chemistry C, 2018, 122, 13455-13461.	3.1	11
22	Photocatalytic H ₂ -Evolution by Homogeneous Molybdenum Sulfide Clusters Supported by Dithiocarbamate Ligands. Inorganic Chemistry, 2019, 58, 16458-16474.	4.0	11
23	Excitation energy-dependent photocurrent switching in a single-molecule photodiode. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16198-16203.	7.1	10
24	Light-driven water oxidation by a dye-sensitized photoanode with a chromophore/catalyst assembly on a mesoporous double-shell electrode. Journal of Chemical Physics, 2019, 150, 041727.	3.0	5
25	Influence of Surface and Structural Variations in Donorâ€“Acceptorâ€“Donor Sensitizers on Photoelectrocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 47499-47510.	8.0	3
26	Enhancing charge separation by lattice coherency engineering in heterojunction photocatalysis. Chem Catalysis, 2022, 2, 10-12.	6.1	1