Lihao Han

List of Publications by Year
in descending order

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18	1,813	687363 13	940533 16
papers	citations	h-index	g-index

19	19	19	3230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient solar water splitting by enhanced charge separation in a bismuth vanadate-silicon tandem photoelectrode. Nature Communications, 2013, 4, 2195.	12.8	1,137
2	Efficient Waterâ€Splitting Device Based on a Bismuth Vanadate Photoanode and Thinâ€Film Silicon Solar Cells. ChemSusChem, 2014, 7, 2832-2838.	6.8	149
3	A direct coupled electrochemical system for capture and conversion of CO2 from oceanwater. Nature Communications, 2020, 11, 4412.	12.8	91
4	High-Rate Electrochemical Reduction of Carbon Monoxide to Ethylene Using Cu-Nanoparticle-Based Gas Diffusion Electrodes. ACS Energy Letters, 2018, 3, 855-860.	17.4	77
5	Extracting large photovoltages from a-SiC photocathodes with an amorphous TiO₂ front surface field layer for solar hydrogen evolution. Energy and Environmental Science, 2015, 8, 1585-1593.	30.8	74
6	An Experimental- and Simulation-Based Evaluation of the CO₂ Utilization Efficiency of Aqueous-Based Electrochemical CO₂ Reduction Reactors with Ion-Selective Membranes. ACS Applied Energy Materials, 2019, 2, 5843-5850.	5.1	51
7	Optimization of amorphous silicon double junction solar cells for an efficient photoelectrochemical water splitting device based on a bismuth vanadate photoanode. Physical Chemistry Chemical Physics, 2014, 16, 4220-4229.	2.8	40
8	Raman study of laser-induced heating effects in free-standing silicon nanocrystals. Nanoscale, 2015, 7, 8389-8397.	5.6	36
9	Gradient dopant profiling and spectral utilization of monolithic thin-film silicon photoelectrochemical tandem devices for solar water splitting. Journal of Materials Chemistry A, 2015, 3, 4155-4162.	10.3	35
10	A novel preparation method for ZnO/Î³-Al₂O₃ nanofibers with enhanced absorbability and improved photocatalytic water-treatment performance by Ag nanoparticles. Nanoscale, 2018, 10, 6892-6899.	5.6	33
11	Decoupling H₂(g) and O₂(g) Production in Water Splitting by a Solar-Driven V^{3+/2+}(aq,H₂SO₄)|KOH(aq) Cell. ACS Energy Letters, 2019, 4, 968-976.	17.4	33
12	A thin-film silicon/silicon hetero-junction hybrid solar cell for photoelectrochemical water-reduction applications. Solar Energy Materials and Solar Cells, 2016, 150, 82-87.	6.2	17
13	A Hybrid Catalyst-Bonded Membrane Device for Electrochemical Carbon Monoxide Reduction at Different Relative Humidities. ACS Sustainable Chemistry and Engineering, 2019, 7, 16964-16970.	6.7	14
14	A low-temperature synthesis of electrochemical active Pt nanoparticles and thin films by atomic layer deposition on Si(111) and glassy carbon surfaces. Thin Solid Films, 2015, 586, 28-34.	1.8	11
15	Reliable Performance Characterization of Mediated Photocatalytic Waterâ€Splitting Half Reactions. ChemSusChem, 2017, 10, 2158-2166.	6.8	8
16	Optical modeling of an efficient water splitting device based on bismuth vanadate photoanode and micromorph silicon solar cells. , 2014, , .		3
17	Size control, quantum confinement, and oxidation kinetics of silicon nanocrystals synthesized at a high rate by expanding thermal plasma. Applied Physics Letters, 2015, 106, 213106.	3.3	3
18	Silicon quantum dots in an oxide matrix for third generation photovoltaic solar cells. , 2010, , .		1