

James E Thorne

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,789
citations

471509

17
h-index

677142

22
g-index

26
all docs

26
docs citations

26
times ranked

3123
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling unassisted solar water splitting by iron oxide and silicon. <i>Nature Communications</i> , 2015, 6, 7447.	12.8	429
2	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2902-2907.	7.1	229
3	Understanding the origin of photoelectrode performance enhancement by probing surface kinetics. <i>Chemical Science</i> , 2016, 7, 3347-3354.	7.4	185
4	Forming Buried Junctions to Enhance the Photovoltage Generated by Cuprous Oxide in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13493-13497.	13.8	160
5	Comparison of heterogenized molecular and heterogeneous oxide catalysts for photoelectrochemical water oxidation. <i>Energy and Environmental Science</i> , 2016, 9, 1794-1802.	30.8	136
6	Energetics at the Surface of Photoelectrodes and Its Influence on the Photoelectrochemical Properties. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4083-4088.	4.6	94
7	Enabling practical electrocatalyst-assisted photoelectron-chemical water splitting with earth abundant materials. <i>Nano Research</i> , 2015, 8, 56-81.	10.4	92
8	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO_3 for Solar Water Oxidation. <i>ACS Central Science</i> , 2018, 4, 1166-1172.	11.3	69
9	Controlling the Electronic Coupling between CdSe Quantum Dots and Thiol Capping Ligands via pH and Ligand Selection. <i>Langmuir</i> , 2012, 28, 11072-11077.	3.5	51
10	Understanding Photocharging Effects on Bismuth Vanadate. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22083-22087.	8.0	47
11	Observation of a potential-dependent switch of water-oxidation mechanism on Co-oxide-based catalysts. <i>CheM</i> , 2021, 7, 2101-2117.	11.7	42
12	Understanding the role of co-catalysts on silicon photocathodes using intensity modulated photocurrent spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29653-29659.	2.8	40
13	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7285-7290.	4.6	34
14	Charge carrier kinetics in hematite with NiFeOx coating in aqueous solutions: Dependence on bias voltage. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 344-348.	3.9	30
15	Uncovering Photo-Excited Charge Carrier Dynamics in Hematite ($\hat{\Gamma}_6$ - Fe_2O_3) Hidden in the Nanosecond Range by the Heterodyne Transient Grating Technique Combined with the Randomly Interleaved Pulse-Train Method. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6693-6700.	3.1	25
16	Investigation of Photoexcited Carrier Dynamics in Hematite and the Effect of Surface Modifications by an Advanced Transient Grating Technique. <i>ACS Omega</i> , 2017, 2, 1031-1035.	3.5	23
17	Interaction of Mn with reducible $CeO_2(111)$ thin films. <i>Applied Surface Science</i> , 2013, 283, 1-5.	6.1	19
18	Photosensitization of ZnO single crystal electrodes with PbS quantum dots. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1954-1959.	1.8	18

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19	Strong O 2p-Fe 3d Hybridization Observed in Solution-Grown Hematite Films by Soft X-ray Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 927-932.	2.6	18
20	Comparative study of photo-excited charge carrier dynamics of atomic layer deposited and solution-derived hematite films: Dependence of charge carrier kinetics on surface orientations. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 645-649.	3.9	16
21	Sensitization of ZnO Single Crystal Electrodes with CdSe Quantum Dots. <i>Langmuir</i> , 2014, 30, 12551-12558.	3.5	13
22	<i>Nanostructured Materials.</i> , 2016, , 463-492.		0
23	Efficient Photocatalysis using Hematite Nanostructures and their Derivatives. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2016, , 27-55.	0.1	0