James E Thorne

List of Publications by Year
in descending order

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Version: 2024-02-01

23	1,789	471509 17	677142 22
papers	citations	h-index	g-index

26	26	26	3123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of a potential-dependent switch of water-oxidation mechanism on Co-oxide-based catalysts. CheM, 2021, 7, 2101-2117.	11.7	42
2	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. Journal of Physical Chemistry Letters, 2020, 11, 7285-7290.	4.6	34
3	Uncovering Photo-Excited Charge Carrier Dynamics in Hematite (Î±-Fe₂O₃) Hidden in the Nanosecond Range by the Heterodyne Transient Grating Technique Combined with the Randomly Interleaved Pulse-Train Method. Journal of Physical Chemistry C, 2019, 123, 6693-6700.	3.1	25
4	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907.	7.1	229
5	Charge carrier kinetics in hematite with NiFeOx coating in aqueous solutions: Dependence on bias voltage. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 344-348.	3.9	30
6	Strong O 2pâ€“Fe 3d Hybridization Observed in Solution-Grown Hematite Films by Soft X-ray Spectroscopies. Journal of Physical Chemistry B, 2018, 122, 927-932.	2.6	18
7	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO₃ for Solar Water Oxidation. ACS Central Science, 2018, 4, 1166-1172.	11.3	69
8	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. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 645-649.	3.9	16
9	Investigation of Photoexcited Carrier Dynamics in Hematite and the Effect of Surface Modifications by an Advanced Transient Grating Technique. ACS Omega, 2017, 2, 1031-1035.	3.5	23
10	Understanding the role of co-catalysts on silicon photocathodes using intensity modulated photocurrent spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 29653-29659.	2.8	40
11	Understanding Photocharging Effects on Bismuth Vanadate. ACS Applied Materials & Interfaces, 2017, 9, 22083-22087.	8.0	47
12	Nanostructured Materials. , 2016, , 463-492.		0
13	Comparison of heterogenized molecular and heterogeneous oxide catalysts for photoelectrochemical water oxidation. Energy and Environmental Science, 2016, 9, 1794-1802.	30.8	136
14	Understanding the origin of photoelectrode performance enhancement by probing surface kinetics. Chemical Science, 2016, 7, 3347-3354.	7.4	185
15	Efficient Photocatalysis using Hematite Nanostructures and their Derivatives. World Scientific Series in Nanoscience and Nanotechnology, 2016, , 27-55.	0.1	0
16	Enabling practical electrocatalyst-assisted photoelectron-chemical water splitting with earth abundant materials. Nano Research, 2015, 8, 56-81.	10.4	92
17	Enabling unassisted solar water splitting by iron oxide and silicon. Nature Communications, 2015, 6, 7447.	12.8	429
18	Energetics at the Surface of Photoelectrodes and Its Influence on the Photoelectrochemical Properties. Journal of Physical Chemistry Letters, 2015, 6, 4083-4088.	4.6	94

#	Article	IF	Citations
19	Forming Buried Junctions to Enhance the Photovoltage Generated by Cuprous Oxide in Aqueous Solutions. Angewandte Chemie - International Edition, 2014, 53, 13493-13497.	13.8	160
20	Sensitization of ZnO Single Crystal Electrodes with CdSe Quantum Dots. Langmuir, 2014, 30, 12551-12558.	3.5	13
21	Photosensitization of ZnO single crystal electrodes with PbS quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1954-1959.	1.8	18
22	Interaction of Mn with reducible CeO2(111) thin films. Applied Surface Science, 2013, 283, 1-5.	6.1	19
23	Controlling the Electronic Coupling between CdSe Quantum Dots and Thiol Capping Ligands via pH and Ligand Selection. Langmuir, 2012, 28, 11072-11077.	3.5	51