

Hansong Xue

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

444
citations

1040056

9
h-index

1058476

14
g-index

16
all docs

16
docs citations

16
times ranked

397
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolithic perovskite/organic tandem solar cells with 23.6% efficiency enabled by reduced voltage losses and optimized interconnecting layer. <i>Nature Energy</i> , 2022, 7, 229-237.	39.5	137
2	Expanding the Utility of Brønsted Base Catalysis: Biomimetic Enantioselective Decarboxylative Reactions. <i>Chemistry - A European Journal</i> , 2011, 17, 8363-8370.	3.3	93
3	Mechanistic Insights into Bicyclic Guanidine-Catalyzed Reactions from Microscopic and Macroscopic Perspectives. <i>Journal of Organic Chemistry</i> , 2015, 80, 5745-5752.	3.2	63
4	Modelling and loss analysis of meso-structured perovskite solar cells. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	24
5	Quantifying operating uncertainties of a PEMFC – Monte Carlo-machine learning based approach. <i>Renewable Energy</i> , 2020, 158, 343-359.	8.9	24
6	Correlating variability of modeling parameters with photovoltaic performance: Monte Carlo simulation of a meso-structured perovskite solar cell. <i>Applied Energy</i> , 2019, 237, 131-144.	10.1	20
7	Embedding physics domain knowledge into a Bayesian network enables layer-by-layer process innovation for photovoltaics. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	18
8	Optoelectronic modeling and sensitivity analysis of a four-terminal all-perovskite tandem solar cell – Identifying pathways to improve efficiency. <i>Solar Energy</i> , 2021, 216, 589-600.	6.1	13
9	Elucidating the underlying physics in a two-terminal all-perovskite tandem solar cell: A guideline towards 30% power conversion efficiency. <i>Solar Energy</i> , 2022, 231, 716-731.	6.1	12
10	Cloud-inspired multiple scattering for light intensified photochemical flow reactors. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1058-1063.	3.7	11
11	Physics-guided characterization and optimization of solar cells using surrogate machine learning model. , 2019, , .		8
12	Optimizing bifacial all-perovskite tandem solar cell: How to balance light absorption and recombination. <i>Solar Energy</i> , 2022, 231, 1092-1106.	6.1	8
13	Elucidating the functional form of the recombination losses in a planar perovskite solar cell: A scaling analysis. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	6
14	Guanidine-catalyzed asymmetric Strecker reaction: modes of activation and origin of stereoselectivity. <i>Canadian Journal of Chemistry</i> , 2016, 94, 1099-1108.	1.1	5
15	A spatially smoothed device model for meso-structured perovskite solar cells. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	2