

Hao-Yi Wang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

411
citations

759233

12
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

652
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Defects of MAPbI ₃ Thin Films Treated by FAI for High-Performance Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1805810.	14.9	73
2	Adverse Effects of Excess Residual PbI ₂ on Photovoltaic Performance, Charge Separation, and Trap-State Properties in Mesoporous Structured Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2017, 23, 3986-3992.	3.3	63
3	Trap-limited charge recombination in intrinsic perovskite film and meso-superstructured perovskite solar cells and the passivation effect of the hole-transport material on trap states. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29501-29506.	2.8	36
4	Porous gold nanoparticle/graphene oxide composite as efficient catalysts for reduction of 4-nitrophenol. <i>RSC Advances</i> , 2016, 6, 35945-35951.	3.6	35
5	Mechanism of biphasic charge recombination and accumulation in TiO ₂ mesoporous structured perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12128-12134.	2.8	28
6	Rules for Selecting Metal Cocatalyst Based on Charge Transfer and Separation Efficiency between ZnO Nanoparticles and Noble Metal Cocatalyst Ag/ Au/ Pt. <i>ChemCatChem</i> , 2020, 12, 3838-3842.	3.7	24
7	Charge carrier recombination dynamics in a bi-cationic perovskite solar cell. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5409-5415.	2.8	20
8	Effect of trap states on photocatalytic properties of boron-doped anatase TiO ₂ microspheres studied by time-resolved infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4349-4358.	2.8	19
9	Influence of the MACl additive on grain boundaries, trap-state properties, and charge dynamics in perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6162-6170.	2.8	18
10	The influence of morphology on charge transport/recombination dynamics in planar perovskite solar cells. <i>Chemical Physics Letters</i> , 2016, 662, 257-262.	2.6	17
11	Efficient promotion of charge separation and suppression of charge recombination by blending PCBM and its dimer as electron transport layer in inverted perovskite solar cells. <i>RSC Advances</i> , 2016, 6, 112512-112519.	3.6	15
12	The Influence of Structural Configuration on Charge Accumulation, Transport, Recombination, and Hysteresis in Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 442-451.	3.8	15
13	Multiple-Trapping Model for the Charge Recombination Dynamics in Mesoporous-Structured Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 4872-4878.	6.8	11
14	Characterization of the influences of morphology on the intrinsic properties of perovskite films by temperature-dependent and time-resolved spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6575-6581.	2.8	11
15	The Influence of Morphology and PbI ₂ on the Intrinsic Trap State Distribution in Perovskite Films Determined by Using Temperature-Dependent Fluorescence Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 310-317.	2.1	7
16	Polarization-Induced Trap States in Perovskite Solar Cells Revealed by Circuit-Switched Transient Photoelectric Technique. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3696-3704.	3.1	7
17	Lewis Base-Mediated Perovskite Crystallization as Revealed by In Situ, Real-Time Optical Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5357-5362.	4.6	5
18	Power output and carrier dynamics studies of perovskite solar cells under working conditions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19922-19927.	2.8	4

#	ARTICLE	IF	CITATIONS
19	Diffusion Dynamics of Mobile Ions Hidden in Transient Optoelectronic Measurement in Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 8330-8337.	5.1	1
20	Silicon Dioxide Nanoparticles Increase the Incidence Depth of Short-Wavelength Light in Active Layer for High-Performance Perovskite Solar Cells. Journal of Physical Chemistry C, 2022, 126, 7400-7409.	3.1	1
21	Interpretation of the Biphasic Charge Carrier Recombination Process Observed in Mesoporous-Structured Perovskite Solar Cells. , 0, , .		0