

Shuai Yuan

List of Publications by Year in descending order

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docs citations

18
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228
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of NiOx hole transport layer for acceleration of charge extraction in inverted perovskite solar cells. RSC Advances, 2020, 10, 12289-12296.	3.6	22
2	Charge carrier recombination dynamics in a bi-cationic perovskite solar cell. Physical Chemistry Chemical Physics, 2019, 21, 5409-5415.	2.8	20
3	Effects of interfacial energy level alignment on carrier dynamics and photovoltaic performance of inverted perovskite solar cells. Journal of Power Sources, 2020, 452, 227845.	7.8	19
4	Influence of the MAI additive on grain boundaries, trap-state properties, and charge dynamics in perovskite solar cells. Physical Chemistry Chemical Physics, 2021, 23, 6162-6170.	2.8	18
5	The Influence of CsBr on Crystal Orientation and Optoelectronic Properties of MAPbI ₃ -Based Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 2958-2967.	8.0	18
6	The influence of the electron transport layer on charge dynamics and trap-state properties in planar perovskite solar cells. RSC Advances, 2020, 10, 12347-12353.	3.6	16
7	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. RSC Advances, 2016, 6, 112512-112519.	3.6	15
8	Characterization of the influences of morphology on the intrinsic properties of perovskite films by temperature-dependent and time-resolved spectroscopies. Physical Chemistry Chemical Physics, 2018, 20, 6575-6581.	2.8	11
9	Cd _{1-x} Zn _x S Nanorod Solid Solutions with Sulfur Vacancies as Effective Electron Traps for Highly Efficient Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2021, 125, 25600-25607.	3.1	11
10	Efficient and Stable Perovskite Solar Cells via CsPF ₆ Passivation of Perovskite Film Defects. Journal of Physical Chemistry Letters, 2022, 13, 4598-4604.	4.6	11
11	Spacer Engineering of Thiophene-Based Two-Dimensional/Three-Dimensional Hybrid Perovskites for Stable and Efficient Solar Cells. Journal of Physical Chemistry C, 2022, 126, 3351-3358.	3.1	9
12	Bifunctional Chlorosilane Modification for Defect Passivation and Stability Enhancement of High-Efficiency Perovskite Solar Cells. Journal of Physical Chemistry C, 2020, 124, 22903-22913.	3.1	8
13	Simultaneous Transport Promotion and Recombination Suppression in Perovskite Solar Cells by Defect Passivation with Li-Doped Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2021, 125, 5525-5533.	3.1	7
14	Polarization-Induced Trap States in Perovskite Solar Cells Revealed by Circuit-Switched Transient Photoelectric Technique. Journal of Physical Chemistry C, 2022, 126, 3696-3704.	3.1	7
15	Lewis Base-Mediated Perovskite Crystallization as Revealed by In Situ, Real-Time Optical Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 5357-5362.	4.6	5
16	Intragap State Engineering for Tunable Single-Photon Upconversion Photoluminescence of Lead Halide Perovskite. Journal of Physical Chemistry C, 2022, 126, 2447-2453.	3.1	3
17	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
18	Electron transport layer assisted by nickel chloride hexahydrate for open-circuit voltage improvement in MAPbI ₃ perovskite solar cells. RSC Advances, 2022, 12, 13820-13825.	3.6	0