

Yue-Min Xie

List of Publications by Year in descending order

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Version: 2024-02-01

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471509

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1771
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#	ARTICLE	IF	CITATIONS
1	D-A- Γ -A-D-type Dopant-free Hole Transport Material for Low-Cost, Efficient, and Stable Perovskite Solar Cells. <i>Joule</i> , 2021, 5, 249-269.	24.0	203
2	Ultraviolet-ozone surface modification for non-wetting hole transport materials based inverted planar perovskite solar cells with efficiency exceeding 18%. <i>Journal of Power Sources</i> , 2017, 360, 157-165.	7.8	106
3	18% High-Efficiency Air-Processed Perovskite Solar Cells Made in a Humid Atmosphere of 70% RH. <i>Solar Rrl</i> , 2017, 1, 1700097.	5.8	97
4	Impact of surface dipole in NiO _x on the crystallization and photovoltaic performance of organometal halide perovskite solar cells. <i>Nano Energy</i> , 2019, 61, 496-504.	16.0	92
5	Air-processed mixed-cation Cs _{0.15} FA _{0.85} PbI ₃ planar perovskite solar cells derived from a PbI ₂ •CsI intermediate complex. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7731-7740.	10.3	75
6	Porphyrin-based thick-film bulk-heterojunction solar cells for indoor light harvesting. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9111-9118.	5.5	67
7	Suppressing Ion Migration across Perovskite Grain Boundaries by Polymer Additives. <i>Advanced Functional Materials</i> , 2021, 31, 2006802.	14.9	66
8	Spacer Engineering of Diammonium-Based 2D Perovskites toward Efficient and Stable 2D/3D Heterostructure Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, 2102973.	19.5	63
9	Charge transfer-induced photoluminescence in ZnO nanoparticles. <i>Nanoscale</i> , 2019, 11, 8736-8743.	5.6	48
10	Improving the conductivity of sol-gel derived NiO _x with a mixed oxide composite to realize over 80% fill factor in inverted planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9578-9586.	10.3	47
11	Homogeneous Grain Boundary Passivation in Wide-Bandgap Perovskite Films Enables Fabrication of Monolithic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	42
12	FA-Assisted Iodide Coordination in Organic-Inorganic Wide-Bandgap Perovskite with Mixed Halides. <i>Small</i> , 2020, 16, e1907226.	10.0	38
13	Revealing the crystallization process and realizing uniform 1.8 eV MA-based wide-bandgap mixed-halide perovskites via solution engineering. <i>Nano Research</i> , 2019, 12, 1033-1039.	10.4	37
14	Direct observation of cation-exchange in liquid-to-solid phase transformation in FA _{1-x} MA _x PbI ₃ based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9081-9088.	10.3	35
15	Metal-Halide Perovskite Crystallization Kinetics: A Review of Experimental and Theoretical Studies. <i>Advanced Energy Materials</i> , 2021, 11, 2100784.	19.5	35
16	Subtle side chain modification of triphenylamine-based polymer hole-transport layer materials produces efficient and stable inverted perovskite solar cells. , 2022, 1, 281-293.		34
17	Porous and Intercrossed PbI ₂ •CsI Nanorod Scaffold for Inverted Planar FA-Cs Mixed-Cation Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6126-6135.	8.0	32
18	Synergistic Effect of Pseudo-Halide Thiocyanate Anion and Cesium Cation on Realizing High-Performance Pinhole-Free MA-Based Wide-Band Gap Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25909-25916.	8.0	23

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19	Monolithic perovskite/organic tandem solar cells: Developments, prospects, and challenges. <i>Nano Select</i> , 2021, 2, 1266-1276.	3.7	18
20	The Role of Diammonium Cation on the Structural and Optoelectronic Properties in 3D Cesium-Formamidinium Mixed-Cation Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900140.	5.8	16
21	Efficient blue/white phosphorescent organic light-emitting diodes based on a silicon-based host material via a direct carbon-nitrogen bond. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5347-5353.	5.5	15
22	Solution processable small molecule based organic light-emitting devices prepared by dip-coating method. <i>Organic Electronics</i> , 2018, 55, 1-5.	2.6	12
23	Understanding the role of interconnecting layer on determining monolithic perovskite/organic tandem device carrier recombination properties. <i>Journal of Energy Chemistry</i> , 2022, 71, 12-19.	12.9	12
24	High efficiency and low driving voltage blue/white electrophosphorescence enabled by the synergistic combination of singlet and triplet energy of bicarbazole derivatives. <i>Organic Electronics</i> , 2015, 26, 25-29.	2.6	9
25	Spacer Engineering of Diammonium-Based 2D Perovskites toward Efficient and Stable 2D/3D Heterostructure Perovskite Solar Cells (<i>Adv. Energy Mater.</i> 2/2022). <i>Advanced Energy Materials</i> , 2022, 12, 2270004.	19.5	1