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List of Publications by Year in descending order

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29	3,665	361045	454577
papers	citations	20 h-index	30 g-index

32	32	32	5268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal degradation of CH₃NH₃PbI₃ perovskite into NH₃ and CH₃I gases observed by coupled thermogravimetryâ€“mass spectrometry analysis. Energy and Environmental Science, 2016, 9, 3406-3410.	15.6	616
2	Photodecomposition and thermal decomposition in methylammonium halide lead perovskites and inferred design principles to increase photovoltaic device stability. Journal of Materials Chemistry A, 2018, 6, 9604-9612.	5.2	437
3	Highly stable and efficient all-inorganic lead-free perovskite solar cells with native-oxide passivation. Nature Communications, 2019, 10, 16.	5.8	430
4	Air-Exposure Induced Dopant Redistribution and Energy Level Shifts in Spin-Coated Spiro-MeOTAD Films. Chemistry of Materials, 2015, 27, 562-569.	3.2	357
5	Recent Advances in Spiroâ€MeOTAD Hole Transport Material and Its Applications in Organicâ€“Inorganic Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1700623.	1.9	316
6	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution forÂHighâ€Stability Allâ€Inorganic Perovskite Solar Cells withÂCarbon Electrodes. Advanced Energy Materials, 2018, 8, 1800504.	10.2	272
7	Role of the Dopants on the Morphological and Transport Properties of Spiro-MeOTAD Hole Transport Layer. Chemistry of Materials, 2016, 28, 5702-5709.	3.2	194
8	Highly Efficient and Stable Perovskite Solar Cells via Modification of Energy Levels at the Perovskite/Carbon Electrode Interface. Advanced Materials, 2019, 31, e1804284.	11.1	161
9	Moisture and Oxygen Enhance Conductivity of LiTFSIâ€Doped Spiroâ€MeOTAD Hole Transport Layer in Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600117.	1.9	123
10	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO₂ Electron Transport Layer. Advanced Functional Materials, 2019, 29, 1806779.	7.8	118
11	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. Nature Communications, 2018, 9, 3880.	5.8	109
12	Interfacial Modification of Perovskite Solar Cells Using an Ultrathin MAI Layer Leads to Enhanced Energy Level Alignment, Efficiencies, and Reproducibility. Journal of Physical Chemistry Letters, 2017, 8, 3947-3953.	2.1	101
13	Efficient Wide-Bandgap Mixed-Cation and Mixed-Halide Perovskite Solar Cells by Vacuum Deposition. ACS Energy Letters, 2021, 6, 827-836.	8.8	81
14	Negligibleâ€Pbâ€Waste and Upscalable Perovskite Deposition Technology for Highâ€Operationalâ€Stability Perovskite Solar Modules. Advanced Energy Materials, 2019, 9, 1803047.	10.2	68
15	2D materials for conducting holes from grain boundaries in perovskite solar cells. Light: Science and Applications, 2021, 10, 68.	7.7	59
16	Atomic-scale view of stability and degradation of single-crystal MAPbBr₃ surfaces. Journal of Materials Chemistry A, 2019, 7, 20760-20766.	5.2	46
17	CdS/FTO thin film electrodes deposited by chemical bath deposition and by electrochemical deposition: A comparative assessment of photo-electrochemical characteristics. Solid State Sciences, 2013, 18, 83-90.	1.5	45
18	Combined electrochemical/chemical bath depositions to prepare CdS film electrodes with enhanced PEC characteristics. Journal of Electroanalytical Chemistry, 2013, 707, 117-121.	1.9	25

#	Article	IF	Citations
19	Assembly of tantalum porous films with graded oxidation profile from size-selected nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	25
20	The influence of secondary solvents on the morphology of a spiro-MeOTAD hole transport layer for lead halide perovskite solar cells. Journal Physics D: Applied Physics, 2018, 51, 294001.	1.3	23
21	Surface Termination-Dependent Nanotribological Properties of Single-Crystal MAPbBr₃ Surfaces. Journal of Physical Chemistry C, 2020, 124, 1484-1491.	1.5	15
22	An Integrated Bulk and Surface Modification Strategy for Gasâ€Quenched Inverted Perovskite Solar Cells with Efficiencies Exceeding 22%. Solar Rrl, 2022, 6, .	3.1	10
23	Intrinsic Organic Semiconductors as Hole Transport Layers in pâ€“iâ€“n Perovskite Solar Cells. Solar Rrl, 2022, 6, .	3.1	8
24	Photo-Oxidation Reveals H-Aggregates Hidden in Spin-Cast-Conjugated Polymer Films as Observed by Two-Dimensional Polarization Imaging. Chemistry of Materials, 2019, 31, 8927-8936.	3.2	6
25	Size-controlled deposition of Ag and Si nanoparticle structures with gas-aggregated sputtering. Materials Research Society Symposia Proceedings, 2013, 1546, 1.	0.1	5
26	Mapping of Embedded Functionalized Carbon Nanotubes in Poly(vinyl alcohol)/Nanotube Composite Using Electrostatic Force Microscopy. International Journal of Polymer Analysis and Characterization, 2012, 17, 268-277.	0.9	4
27	Surface Morphology of Films Grown by Size-Selected Ta Nanoparticles. Advanced Materials Research, 0, 647, 732-737.	0.3	3
28	Photovoltaics: Recent Advances in Spiroâ€MeOTAD Hole Transport Material and Its Applications in Organicâ€“Inorganic Halide Perovskite Solar Cells (Adv. Mater. Interfaces 1/2018). Advanced Materials Interfaces, 2018, 5, 1870003.	1.9	3
29	Growth of 2,2-Biimidazole-Based Nanorods on Mica Substrate. Journal of Nanomaterials, 2010, 2010, 1-7.	1.5	2