

Zafer Hawash

List of Publications by Year in descending order

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29
papers

3,665
citations

361045

20
h-index

454577

30
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all docs

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docs citations

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times ranked

5268
citing authors

#	ARTICLE	IF	CITATIONS
1	An Integrated Bulk and Surface Modification Strategy for Gas-Quenched Inverted Perovskite Solar Cells with Efficiencies Exceeding 22%. <i>Solar Rrl</i> , 2022, 6, .	3.1	10
2	Intrinsic Organic Semiconductors as Hole Transport Layers in Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	8
3	Efficient Wide-Bandgap Mixed-Cation and Mixed-Halide Perovskite Solar Cells by Vacuum Deposition. <i>ACS Energy Letters</i> , 2021, 6, 827-836.	8.8	81
4	2D materials for conducting holes from grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021, 10, 68.	7.7	59
5	Surface Termination-Dependent Nanotribological Properties of Single-Crystal MAPbBr ₃ Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1484-1491.	1.5	15
6	Atomic-scale view of stability and degradation of single-crystal MAPbBr ₃ surfaces. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20760-20766.	5.2	46
7	Photo-Oxidation Reveals H-Aggregates Hidden in Spin-Cast-Conjugated Polymer Films as Observed by Two-Dimensional Polarization Imaging. <i>Chemistry of Materials</i> , 2019, 31, 8927-8936.	3.2	6
8	Highly Efficient and Stable Perovskite Solar Cells via Modification of Energy Levels at the Perovskite/Carbon Electrode Interface. <i>Advanced Materials</i> , 2019, 31, e1804284.	11.1	161
9	Negligible Pb-Waste and Upscalable Perovskite Deposition Technology for High-Operational Stability Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2019, 9, 1803047.	10.2	68
10	Highly stable and efficient all-inorganic lead-free perovskite solar cells with native-oxide passivation. <i>Nature Communications</i> , 2019, 10, 16.	5.8	430
11	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO ₂ Electron Transport Layer. <i>Advanced Functional Materials</i> , 2019, 29, 1806779.	7.8	118
12	Photodecomposition and thermal decomposition in methylammonium halide lead perovskites and inferred design principles to increase photovoltaic device stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9604-9612.	5.2	437
13	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution for High-Stability All-Inorganic Perovskite Solar Cells with Carbon Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800504.	10.2	272
14	Photovoltaics: Recent Advances in Spiro-MeOTAD Hole Transport Material and Its Applications in Organic-Inorganic Halide Perovskite Solar Cells (<i>Adv. Mater. Interfaces</i> 1/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870003.	1.9	3
15	Recent Advances in Spiro-MeOTAD Hole Transport Material and Its Applications in Organic-Inorganic Halide Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700623.	1.9	316
16	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. <i>Nature Communications</i> , 2018, 9, 3880.	5.8	109
17	The influence of secondary solvents on the morphology of a spiro-MeOTAD hole transport layer for lead halide perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 294001.	1.3	23
18	Interfacial Modification of Perovskite Solar Cells Using an Ultrathin MAI Layer Leads to Enhanced Energy Level Alignment, Efficiencies, and Reproducibility. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3947-3953.	2.1	101

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19	Moisture and Oxygen Enhance Conductivity of LiTFSI-Doped Spiro-MeOTAD Hole Transport Layer in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600117.	1.9	123
20	Role of the Dopants on the Morphological and Transport Properties of Spiro-MeOTAD Hole Transport Layer. <i>Chemistry of Materials</i> , 2016, 28, 5702-5709.	3.2	194
21	Thermal degradation of CH ₃ NH ₃ PbI ₃ perovskite into NH ₃ and CH ₃ I gases observed by coupled thermogravimetry-mass spectrometry analysis. <i>Energy and Environmental Science</i> , 2016, 9, 3406-3410.	15.6	616
22	Air-Exposure Induced Dopant Redistribution and Energy Level Shifts in Spin-Coated Spiro-MeOTAD Films. <i>Chemistry of Materials</i> , 2015, 27, 562-569.	3.2	357
23	Assembly of tantalum porous films with graded oxidation profile from size-selected nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	25
24	Combined electrochemical/chemical bath depositions to prepare CdS film electrodes with enhanced PEC characteristics. <i>Journal of Electroanalytical Chemistry</i> , 2013, 707, 117-121.	1.9	25
25	CdS/FTO thin film electrodes deposited by chemical bath deposition and by electrochemical deposition: A comparative assessment of photo-electrochemical characteristics. <i>Solid State Sciences</i> , 2013, 18, 83-90.	1.5	45
26	Size-controlled deposition of Ag and Si nanoparticle structures with gas-aggregated sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1546, 1.	0.1	5
27	Mapping of Embedded Functionalized Carbon Nanotubes in Poly(vinyl alcohol)/Nanotube Composite Using Electrostatic Force Microscopy. <i>International Journal of Polymer Analysis and Characterization</i> , 2012, 17, 268-277.	0.9	4
28	Growth of 2,2-Biimidazole-Based Nanorods on Mica Substrate. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-7.	1.5	2
29	Surface Morphology of Films Grown by Size-Selected Ta Nanoparticles. <i>Advanced Materials Research</i> , 0, 647, 732-737.	0.3	3