Nakita K Noel

List of Publications by Year
in descending order

41 papers	11,766 citations	172207 29 h-index	276539 41 g-index
41 all docs	41 docs citations	41 times ranked	13489 citing authors

#	Article	IF	Citations
1	Anomalous Hysteresis in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1511-1515.	2.1	2,190
2	Lead-free organicâ€“inorganic tin halide perovskites for photovoltaic applications. Energy and Environmental Science, 2014, 7, 3061-3068.	15.6	2,086
3	Enhanced Photoluminescence and Solar Cell Performance via Lewis Base Passivation of Organicâ€“Inorganic Lead Halide Perovskites. ACS Nano, 2014, 8, 9815-9821.	7.3	1,439
4	Stability of Metal Halide Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1500963.	10.2	1,045
5	Mesoporous TiO2 single crystals delivering enhanced mobility and optoelectronic device performance. Nature, 2013, 495, 215-219.	13.7	751
6	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. Nature Communications, 2015, 6, 10030.	5.8	620
7	Performance and Stability Enhancement of Dyeâ€Sensitized and Perovskite Solar Cells by Al Doping of TiO₂. Advanced Functional Materials, 2014, 24, 6046-6055.	7.8	330
8	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. Energy and Environmental Science, 2017, 10, 145-152.	15.6	319
9	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. Joule, 2017, 1, 155-167.	11.7	264
10	Crystallization Kinetics and Morphology Control of Formamidiniumâ€“Cesium Mixedâ€Cation Lead Mixedâ€Halide Perovskite via Tunability of the Colloidal Precursor Solution. Advanced Materials, 2017, 29, 1607039.	11.1	263
11	Hysteresis Index: A Figure without Merit for Quantifying Hysteresis in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2472-2476.	8.8	257
12	Consolidation of the optoelectronic properties of CH3NH3PbBr3 perovskite single crystals. Nature Communications, 2017, 8, 590.	5.8	207
13	Mechanism for rapid growth of organicâ€“inorganic halide perovskite crystals. Nature Communications, 2016, 7, 13303.	5.8	191
14	Hydrophobic Organic Hole Transporters for Improved Moisture Resistance in Metal Halide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 5981-5989.	4.0	184
15	Solution-Processed All-Perovskite Multi-junction Solar Cells. Joule, 2019, 3, 387-401.	11.7	177
16	Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2015, 9, 2311-2320.	7.3	173
17	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. Joule, 2017, 1, 328-343.	11.7	148
18	Lessons Learned: From Dyeâ€Sensitized Solar Cells to Allâ€Solidâ€State Hybrid Devices. Advanced Materials, 2014, 26, 4013-4030.	11.1	144

#	Article	IF	Citations
19	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. Energy and Environmental Science, 2019, 12, 169-176.	15.6	115
20	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. Energy and Environmental Science, 2019, 12, 3063-3073.	15.6	111
21	Facile Synthesis of Stable and Highly Luminescent Methylammonium Lead Halide Nanocrystals for Efficient Light Emitting Devices. Journal of the American Chemical Society, 2019, 141, 1269-1279.	6.6	108
22	Investigating the Role of 4â€Tert Butylpyridine in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601079.	10.2	106
23	Elucidating the Role of a Tetrafluoroborateâ€Based Ionic Liquid at the nâ€Type Oxide/Perovskite Interface. Advanced Energy Materials, 2020, 10, 1903231.	10.2	81
24	Efficient and Stable Perovskite Solar Cells Using Molybdenum Tris(dithiolene)s as p-Dopants for Spiro-OMeTAD. ACS Energy Letters, 2017, 2, 2044-2050.	8.8	79
25	Mixed Leadâ€“Tin Halide Perovskites for Efficient and Wavelengthâ€Tunable Nearâ€Infrared Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1806105.	11.1	66
26	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. ACS Energy Letters, 2018, 3, 1233-1240.	8.8	54
27	Rapid Charge-Transfer Cascade through SWCNT Composites Enabling Low-Voltage Losses for Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 1872-1879.	8.8	33
28	Ultraviolet Photoemission Spectroscopy and Kelvin Probe Measurements on Metal Halide Perovskites: Advantages and Pitfalls. Advanced Energy Materials, 2020, 10, 1903252.	10.2	33
29	Crystalline Nature of Colloids in Methylammonium Lead Halide Perovskite Precursor Inks Revealed by Cryo-Electron Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 5980-5986.	2.1	30
30	Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. Advanced Energy Materials, 2020, 10, 1903653.	10.2	28
31	Unravelling the Improved Electronic and Structural Properties of Methylammonium Lead Iodide Deposited from Acetonitrile. Chemistry of Materials, 2018, 30, 7737-7743.	3.2	23
32	Observation of Annealing-Induced Doping in TiO₂ Mesoporous Single Crystals for Use in Solid State Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 1821-1827.	1.5	19
33	Dye Monolayers Used as the Hole Transporting Medium in Dyeâ€Sensitized Solar Cells. Advanced Materials, 2015, 27, 5889-5894.	11.1	19
34	Utilizing Nonpolar Organic Solvents for the Deposition of Metal-Halide Perovskite Films and the Realization of Organic Semiconductor/Perovskite Composite Photovoltaics. ACS Energy Letters, 2022, 7, 1246-1254.	8.8	12
35	Polystyrene Templated Porous Titania Wells for Quantum Dot Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 14247-14252.	4.0	11
36	Role of Photon Recycling and Band Filling in Halide Perovskite Photoluminescence under Focussed Excitation Conditions. Journal of Physical Chemistry C, 2021, 125, 2240-2249.	1.5	11

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37	Time-resolved imaging of carrier transport in halide perovskite thin films and evidence for nondiffusive transport. Physical Review Materials, 2019, 3, .	0.9	10
38	Improved Charge Balance in Green Perovskite Light-Emitting Diodes with Atomic-Layer-Deposited Al₂O₃. ACS Applied Materials & Interfaces, 2022, 14, 34247-34252.	4.0	10
39	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. Molecular Systems Design and Engineering, 2018, 3, 741-747.	1.7	9
40	Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. MRS Advances, 2018, 3, 3075-3084.	0.5	8
41	Perovskite based optoelectronics: molecular design perspectives â€“ a themed collection. Molecular Systems Design and Engineering, 2018, 3, 700-701.	1.7	2