Nakita K Noel

List of Publications by Year in Descending Order

39 papers	9,567 citations	26 h-index	41 g-index
41 ext. papers	10,625 ext. citations	18.4 avg, IF	6.12 L-index

#	Paper	IF	Citations
39	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	20.1	1
38	Role of Photon Recycling and Band Filling in Halide Perovskite Photoluminescence under Focussed Excitation Conditions. *Journal of Physical Chemistry C*, **2021**, 125, 2240-2249	3.8	4
37	Ultraviolet Photoemission Spectroscopy and Kelvin Probe Measurements on Metal Halide Perovskites: Advantages and Pitfalls. *Advanced Energy Materials*, **2020**, 10, 1903252	21.8	23
36	Elucidating the Role of a Tetrafluoroborate-Based Ionic Liquid at the n-Type Oxide/Perovskite Interface. *Advanced Energy Materials*, **2020**, 10, 1903231	21.8	50
35	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	6.4	16
34	Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. *Advanced Energy Materials*, **2020**, 10, 1903653	21.8	17
33	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. *Energy and Environmental Science*, **2019**, 12, 169-176	35.4	76
32	Rapid Charge-Transfer Cascade through SWCNT Composites Enabling Low-Voltage Losses for Perovskite Solar Cells. *ACS Energy Letters*, **2019**, 4, 1872-1879	20.1	24
31	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. *Energy and Environmental Science*, **2019**, 12, 3063-3073	35.4	77
30	Time-resolved imaging of carrier transport in halide perovskite thin films and evidence for nondiffusive transport. *Physical Review Materials*, **2019**, 3,	3.2	6
29	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	16.4	83
28	Mixed Lead-Tin Halide Perovskites for Efficient and Wavelength-Tunable Near-Infrared Light-Emitting Diodes. *Advanced Materials*, **2019**, 31, e1806105	24	37
27	Solution-Processed All-Perovskite Multi-junction Solar Cells. *Joule*, **2019**, 3, 387-401	27.8	109
26	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. *ACS Energy Letters*, **2018**, 3, 1233-1240	20.1	43
25	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	4.6	7
24	Unravelling the Improved Electronic and Structural Properties of Methylammonium Lead Iodide Deposited from Acetonitrile. *Chemistry of Materials*, **2018**, 30, 7737-7743	9.6	19
23	Hysteresis Index: A Figure without Merit for Quantifying Hysteresis in Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 2472-2476	20.1	150

22	Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. *MRS Advances*, **2018**, 3, 3075-3084	0.7	6
21	Crystallization Kinetics and Morphology Control of Formamidinium-Cesium Mixed-Cation Lead Mixed-Halide Perovskite via Tunability of the Colloidal Precursor Solution. *Advanced Materials*, **2017** , 29, 1607039	24	197
20	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. *Joule*, **2017**, 1, 328-343	27.8	104
19	Consolidation of the optoelectronic properties of CHNHPbBr perovskite single crystals. *Nature Communications*, **2017**, 8, 590	17.4	164
18	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. *Joule*, **2017**, 1, 155-167	27.8	222
17	Efficient and Stable Perovskite Solar Cells Using Molybdenum Tris(dithiolene)s as p-Dopants for Spiro-OMeTAD. *ACS Energy Letters*, **2017**, 2, 2044-2050	20.1	63
16	Investigating the Role of 4-Tert Butylpyridine in Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1601079	21.8	76
15	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	35.4	253
14	Mechanism for rapid growth of organic-inorganic halide perovskite crystals. *Nature Communications* , **2016**, 7, 13303	17.4	150
13	Hydrophobic Organic Hole Transporters for Improved Moisture Resistance in Metal Halide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 5981-9	9.5	158
12	Atmospheric influence upon crystallization and electronic disorder and its impact on the photophysical properties of organic-inorganic perovskite solar cells. *ACS Nano*, **2015**, 9, 2311-20	16.7	152
11	Dye monolayers used as the hole transporting medium in dye-sensitized solar cells. *Advanced Materials*, **2015**, 27, 5889-94	24	18
10	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. *Nature Communications*, **2015**, 6, 10030	17.4	492
9	Stability of Metal Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500963	21.8	861
8	Lead-free organic–inorganic tin halide perovskites for photovoltaic applications. *Energy and Environmental Science*, **2014**, 7, 3061-3068	35.4	1635
7	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	3.8	19
6	Performance and Stability Enhancement of Dye-Sensitized and Perovskite Solar Cells by Al Doping of TiO2. *Advanced Functional Materials*, **2014**, 24, 6046-6055	15.6	294
5	Enhanced photoluminescence and solar cell performance via Lewis base passivation of organic-inorganic lead halide perovskites. *ACS Nano*, **2014**, 8, 9815-21	16.7	1194

4	Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. *Advanced Materials* , **2014**, 26, 4013-30	24	133
3	Polystyrene templated porous titania wells for quantum dot heterojunction solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 14247-52	9.5	10
2	Anomalous Hysteresis in Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 1511-5	6.4	1951
1	Mesoporous TiO_2 single crystals delivering enhanced mobility and optoelectronic device performance. *Nature*, **2013**, 495, 215-9	50.4	669