Md Azimul Haque

List of Publications by Year in Descending Order

40 papers	3,169 citations	24 h-index	43 g-index
43 ext. papers	3,742 ext. citations	12 avg, IF	5.29 L-index

#	Paper	IF	Citations
40	Molecular Doping of a Naphthalene Diimide-Bithiophene Copolymer and SWCNTs for n-Type Thermoelectric Composites. *ACS Applied Materials & Interfaces*, **2021**, 13, 411-418	9.5	4
39	The ultralow thermal conductivity and tunable thermoelectric properties of surfactant-free SnSe nanocrystals.. *RSC Advances*, **2021**, 11, 28072-28080	3.7	1
38	Halide Perovskites: Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity (Adv. Sci. 10/2020). *Advanced Science*, **2020**, 7, 2070056	13.6	1
37	Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity. *Advanced Science*, **2020** , 7, 1903389	13.6	65
36	Processing-Performance Evolution of Perovskite Solar Cells: From Large Grain Polycrystalline Films to Single Crystals. *Advanced Energy Materials*, **2020**, 10, 1902762	21.8	28
35	Tuning the Thermoelectric Performance of Hybrid Tin Perovskites by Air Treatment. *Advanced Energy and Sustainability Research*, **2020**, 1, 2000033	1.6	8
34	A Highly Conductive Conjugated Polyelectrolyte for Flexible Organic Thermoelectrics. *ACS Applied Energy Materials*, **2020**, 3, 8667-8675	6.1	5
33	Enhanced Thermoelectric Performance and Lifetime in Acid-Doped PEDOT:PSS Films Via Work Function Modification. *ACS Applied Energy Materials*, **2020**, 3, 9126-9132	6.1	8
32	Self-Healing and Stretchable 3D-Printed Organic Thermoelectrics. *Advanced Functional Materials*, **2019**, 29, 1905426	15.6	72
31	Role of Compositional Tuning on Thermoelectric Parameters of Hybrid Halide Perovskites. *Journal of Physical Chemistry C*, **2019**, 123, 14928-14933	3.8	23
30	A 0D Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. *Advanced Functional Materials*, **2019**, 29, 1809166	15.6	23
29	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. *Advanced Optical Materials*, **2019**, 7, 1900865	8.1	27
28	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. *ACS Applied Materials & Interfaces*, **2019**, 11, 29821-29829	9.5	44
27	Low-Temperature-Processed Colloidal Quantum Dots as Building Blocks for Thermoelectrics. *Advanced Energy Materials*, **2019**, 9, 1803049	21.8	11
26	Stable Bandgap-Tunable Hybrid Perovskites with Alloyed Pb-Ba Cations for High-Performance Photovoltaic Applications. *Journal of Physical Chemistry Letters*, **2019**, 10, 59-66	6.4	33
25	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. *Journal Physics D: Applied Physics*, **2019**, 52, 054001	3	11
24	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. *ACS Energy Letters*, **2018**, 3, 476-481	20.1	11

23	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. *Advanced Functional Materials*, **2018**, 28, 1704665	15.6	126
22	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. *Nature Communications*, **2018**, 9, 4299	17.4	98
21	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). *Advanced Materials*, **2018**, 30, 1870260	24	3
20	Imaging the Reduction of Electron Trap States in Shelled Copper Indium Gallium Selenide Nanocrystals Using Ultrafast Electron Microscopy. *Journal of Physical Chemistry C*, **2018**, 122, 15010-15016	3.8	3
19	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. *ACS Energy Letters*, **2018**, 3, 1492-1498	20.1	56
18	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. *Advanced Materials*, **2018**, 30, e1801661	24	58
17	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High-Performance Humidity Sensing. *Angewandte Chemie - International Edition*, **2018**, 57, 11218-11222	16.4	21
16	2D Organic–Inorganic Hybrid Thin Films for Flexible UV–Visible Photodetectors. *Advanced Functional Materials*, **2017**, 27, 1605554	15.6	87
15	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. *Advanced Optical Materials*, **2017**, 5, 1600704	8.1	277
14	High-Performance Ultraviolet-to-Infrared Broadband Perovskite Photodetectors Achieved via Inter-/Intraband Transitions. *ACS Applied Materials & Interfaces*, **2017**, 9, 37832-37838	9.5	67
13	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. *ACS Applied Materials & Interfaces*, **2017**, 9, 35018-35029	9.5	52
12	A Photodetector Based on p-Si/n-ZnO Nanotube Heterojunctions with High Ultraviolet Responsivity. *ACS Applied Materials & Interfaces*, **2017**, 9, 37120-37127	9.5	66
11	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1602803	21.8	115
10	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. *ACS Energy Letters*, **2017**, 2, 1782-1788	20.1	103
9	Schottky junctions on perovskite single crystals: light-modulated dielectric constant and self-biased photodetection. *Journal of Materials Chemistry C*, **2016**, 4, 8304-8312	7.1	104
8	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. *Advanced Materials*, **2016**, 28, 8144-8149	24	206
7	Crystal structure of hexa-kis-(dimethyl sulfoxide-)manganese(II) tetra-iodide. *Acta Crystallographica Section E: Crystallographic Communications*, **2016**, 72, 1791-1793	0.7	5
6	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. *ACS Energy Letters*, **2016**, 1, 32-37	20.1	551

5	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. *ACS Photonics*, **2015**, 2, 849-855	6.3	91
4	CH3NH3PbCl3 Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. *Journal of Physical Chemistry Letters*, **2015**, 6, 3781-6	6.4	507
3	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn2SnO4 Electron Transporting Layer: Interface Matters. *ACS Applied Materials & Interfaces*, **2015**, 7, 28404-11	9.5	94
2	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2015**, 137, 6-14	6.4	101
1	Role of Dopants in Organic and Halide Perovskite Energy Conversion Devices *Chemistry of Materials*,	9.6	2