

Md Azimul Haque

List of Publications by Citations

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40
papers

3,169
citations

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h-index

43
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43
ext. papers

3,742
ext. citations

12
avg, IF

5.29
L-index

#	Paper	IF	Citations
40	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016 , 1, 32-37	20.1	551
39	CH ₃ NH ₃ PbCl ₃ Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3781-6	6.4	507
38	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2017 , 5, 1600704	8.1	277
37	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016 , 28, 8144-8149	24	206
36	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1704665	15.6	126
35	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602803	21.8	115
34	Schottky junctions on perovskite single crystals: light-modulated dielectric constant and self-biased photodetection. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8304-8312	7.1	104
33	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 1782-1788	20.1	103
32	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 6-14	6.4	101
31	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , 2018 , 9, 4299	17.4	98
30	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn ₂ SnO ₄ Electron Transporting Layer: Interface Matters. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28404-11	9.5	94
29	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. <i>ACS Photonics</i> , 2015 , 2, 849-855	6.3	91
28	2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors. <i>Advanced Functional Materials</i> , 2017 , 27, 1605554	15.6	87
27	Self-Healing and Stretchable 3D-Printed Organic Thermoelectrics. <i>Advanced Functional Materials</i> , 2019 , 29, 1905426	15.6	72
26	High-Performance Ultraviolet-to-Infrared Broadband Perovskite Photodetectors Achieved via Inter-/Intraband Transitions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37832-37838	9.5	67
25	A Photodetector Based on p-Si/n-ZnO Nanotube Heterojunctions with High Ultraviolet Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37120-37127	9.5	66
24	Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity. <i>Advanced Science</i> , 2020 , 7, 1903389	13.6	65

23	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, e1801661	24	58
22	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018 , 3, 1492-1498	20.1	56
21	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35018-35029	9.5	52
20	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29821-29829	9.5	44
19	Stable Bandgap-Tunable Hybrid Perovskites with Alloyed Pb-Ba Cations for High-Performance Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 59-66	6.4	33
18	Processing-Performance Evolution of Perovskite Solar Cells: From Large Grain Polycrystalline Films to Single Crystals. <i>Advanced Energy Materials</i> , 2020 , 10, 1902762	21.8	28
17	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900865	8.1	27
16	Role of Compositional Tuning on Thermoelectric Parameters of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14928-14933	3.8	23
15	A 0D Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. <i>Advanced Functional Materials</i> , 2019 , 29, 1809166	15.6	23
14	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High-Performance Humidity Sensing. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11218-11222	16.4	21
13	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. <i>ACS Energy Letters</i> , 2018 , 3, 476-481	20.1	11
12	Low-Temperature-Processed Colloidal Quantum Dots as Building Blocks for Thermoelectrics. <i>Advanced Energy Materials</i> , 2019 , 9, 1803049	21.8	11
11	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 054001	3	11
10	Tuning the Thermoelectric Performance of Hybrid Tin Perovskites by Air Treatment. <i>Advanced Energy and Sustainability Research</i> , 2020 , 1, 2000033	1.6	8
9	Enhanced Thermoelectric Performance and Lifetime in Acid-Doped PEDOT:PSS Films Via Work Function Modification. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9126-9132	6.1	8
8	Crystal structure of hexa-kis-(dimethyl sulfoxide- π -manganese(II) tetra-iodide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016 , 72, 1791-1793	0.7	5
7	A Highly Conductive Conjugated Polyelectrolyte for Flexible Organic Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8667-8675	6.1	5
6	Molecular Doping of a Naphthalene Diimide-Bithiophene Copolymer and SWCNTs for n-Type Thermoelectric Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 411-418	9.5	4

5	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). <i>Advanced Materials</i> , 2018 , 30, 1870260	24	3
4	Imaging the Reduction of Electron Trap States in Shelled Copper Indium Gallium Selenide Nanocrystals Using Ultrafast Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15010-15016	3.8	3
3	Role of Dopants in Organic and Halide Perovskite Energy Conversion Devices <i>Chemistry of Materials</i> ,	9.6	2
2	Halide Perovskites: Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity (Adv. Sci. 10/2020). <i>Advanced Science</i> , 2020 , 7, 2070056	13.6	1
1	The ultralow thermal conductivity and tunable thermoelectric properties of surfactant-free SnSe nanocrystals.. <i>RSC Advances</i> , 2021 , 11, 28072-28080	3.7	1