

Sheikh Ifatur Rahman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Phenylhydrazinium Iodide for Surface Passivation and Defects Suppression in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2000778.	14.9	103
2	Grain Boundary Defect Passivation of Triple Cation Mixed Halide Perovskite with Hydrazine-Based Aromatic Iodide for Efficiency Improvement. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41312-41322.	8.0	45
3	Mitigating Open-Circuit Voltage Loss in Pb-Sn Low-Bandgap Perovskite Solar Cells via Additive Engineering. <i>ACS Applied Energy Materials</i> , 2021, 4, 1731-1742.	5.1	43
4	Rear-Illuminated Perovskite Photorechargeable Lithium Battery. <i>Advanced Functional Materials</i> , 2020, 30, 2001865.	14.9	31
5	Nanoscale spatial mapping of charge carrier dynamics in perovskite solar cells. <i>Nano Today</i> , 2020, 33, 100874.	11.9	21
6	Grain Boundary Defect Passivation in Quadruple Cation Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2000740.	5.8	19
7	Mitigating Interfacial Mismatch between Lithium Metal and Garnet-Type Solid Electrolyte by Depositing Metal Nitride Lithiophilic Interlayer. <i>ACS Applied Energy Materials</i> , 2022, 5, 648-657.	5.1	16
8	Tailoring the Grain Boundaries of Wide-Bandgap Perovskite Solar Cells by Molecular Engineering. <i>Solar Rrl</i> , 2020, 4, 2000384.	5.8	15
9	A comparative study on different HTMs in perovskite solar cell with ZnOS electron transport layer. , 2017, , .		14
10	Metallic 1T Phase Tungsten Disulfide Microflowers for Trace Level Detection of Hg ²⁺ ions. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000068.	5.3	12
11	Numerical analysis of CdTe thin film solar cells with CdS:O window layer and ZnO buffer layer. , 2016, , .		6
12	Numerical analysis of CdS:O/CdTe thin film solar cell using CuInTe BSF layer. , 2016, , .		5
13	Kinetic Monte Carlo Simulation of Perovskite Solar Cells to Probe Film Coverage and Thickness. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000068.	5.8	3
14	III-Nitride p-down green (520nm) light emitting diodes with near-ideal voltage drop. <i>Applied Physics Letters</i> , 2022, 121, .	3.3	3
15	Numerical analysis of MoTeInTe thin film solar cell with CuInTe BSF layer. , 2017, , .		1