

# Sheikh Ifatur Rahman

## List of Publications by Year in descending order

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