

Santanu Bag

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

2,717
citations

623734

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1058476

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docs citations

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times ranked

3604
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol-Assisted Thin-Film Growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskites: A Means to Achieve High Quality, Defect-Free Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1701151.	19.5	58
2	Efficient semi-transparent planar perovskite solar cells using a "molecular glue". <i>Nano Energy</i> , 2016, 30, 542-548.	16.0	71
3	Large Perovskite Grain Growth in Low-Temperature Solution-Processed Planar p-i-n Solar Cells by Sodium Addition. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5053-5057.	8.0	120
4	Beyond 11% Efficiency: Characteristics of State-of-the-Art $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 34-38.	19.5	922
5	Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. <i>Chemistry of Materials</i> , 2012, 24, 4588-4593.	6.7	165
6	Electronic properties of the $\text{Cu}_2\text{ZnSn}(\text{Se},\text{S})_4$ absorber layer in solar cells as revealed by admittance spectroscopy and related methods. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	194
7	Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. <i>Energy and Environmental Science</i> , 2012, 5, 7060.	30.8	303
8	Biomimetic Multifunctional Porous Chalcogels as Solar Fuel Catalysts. <i>Journal of the American Chemical Society</i> , 2011, 133, 7252-7255.	13.7	73
9	Selective Surfaces: High-Surface-Area Zinc Tin Sulfide Chalcogels. <i>Chemistry of Materials</i> , 2011, 23, 2447-2456.	6.7	88
10	Chalcogels: Porous Metal-Chalcogenide Networks from Main-Group Metal Ions. Effect of Surface Polarizability on Selectivity in Gas Separation. <i>Journal of the American Chemical Society</i> , 2010, 132, 14951-14959.	13.7	87
11	Spongy chalcogels of non-platinum metals act as effective hydrodesulfurization catalysts. <i>Nature Chemistry</i> , 2009, 1, 217-224.	13.6	121
12	Aerogels from metal chalcogenides and their emerging unique properties. <i>Journal of Materials Chemistry</i> , 2008, 18, 3628.	6.7	98
13	Importance of Solution Equilibria in the Directed Assembly of Metal Chalcogenide Mesostructures. <i>Journal of the American Chemical Society</i> , 2008, 130, 8366-8376.	13.7	36
14	Porous Semiconducting Gels and Aerogels from Chalcogenide Clusters. <i>Science</i> , 2007, 317, 490-493.	12.6	381