Santanu Bag

List of Publications by Year
in descending order

14 papers	2,717 citations	623734 14 h-index	1058476 14 g-index
16 all docs	16 docs citations	16 times ranked	3604 citing authors

#	Article	IF	Citations
1	Beyond 11% Efficiency: Characteristics of Stateâ€ofâ€theâ€Art Cu₂ZnSn(S,Se)₄ Solar Cells. Advanced Energy Materials, 2013, 3, 34-38.	19.5	922
2	Porous Semiconducting Gels and Aerogels from Chalcogenide Clusters. Science, 2007, 317, 490-493.	12.6	381
3	Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. Energy and Environmental Science, 2012, 5, 7060.	30.8	303
4	Electronic properties of the Cu2ZnSn(Se,S)4 absorber layer in solar cells as revealed by admittance spectroscopy and related methods. Applied Physics Letters, 2012, 100, .	3.3	194
5	Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. Chemistry of Materials, 2012, 24, 4588-4593.	6.7	165
6	Spongy chalcogels of non-platinum metals act as effective hydrodesulfurization catalysts. Nature Chemistry, 2009, 1, 217-224.	13.6	121
7	Large Perovskite Grain Growth in Low-Temperature Solution-Processed Planar p-i-n Solar Cells by Sodium Addition. ACS Applied Materials & Interfaces, 2016, 8, 5053-5057.	8.0	120
8	Aerogels from metal chalcogenides and their emerging unique properties. Journal of Materials Chemistry, 2008, 18, 3628.	6.7	98
9	Selective Surfaces: High-Surface-Area Zinc Tin Sulfide Chalcogels. Chemistry of Materials, 2011, 23, 2447-2456.	6.7	88
10	Chalcogels: Porous Metalâ"Chalcogenide Networks from Main-Group Metal Ions. Effect of Surface Polarizability on Selectivity in Gas Separation. Journal of the American Chemical Society, 2010, 132, 14951-14959.	13.7	87
11	Biomimetic Multifunctional Porous Chalcogels as Solar Fuel Catalysts. Journal of the American Chemical Society, 2011, 133, 7252-7255.	13.7	73
12	Efficient semi-transparent planar perovskite solar cells using a â€˜molecular glueâ€™. Nano Energy, 2016, 30, 542-548.	16.0	71
13	Aerosolâ€Jetâ€Assisted Thinâ€Film Growth of CH₃NH₃PbI₃ Perovskitesâ€"A Means to Achieve High Quality, Defectâ€Free Films for Efficient Solar Cells. Advanced Energy Materials, 2017, 7, 1701151.	19.5	58
14	Importance of Solution Equilibria in the Directed Assembly of Metal Chalcogenide Mesostructures. Journal of the American Chemical Society, 2008, 130, 8366-8376.	13.7	36