M A Hossain

List of Publications by Year in descending order

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21 papers	1,021 citations	643344 15 h-index	799663 21 g-index
21 all docs	21 docs citations	21 times ranked	2003 citing authors

#	Article	IF	Citations
1	Designing 3d metal oxides: selecting optimal density functionals for strongly correlated materials. Physical Chemistry Chemical Physics, 2022, 24, 14119-14139.	1.3	4
2	Impact of Pregrown SiO_x on the Carrier Selectivity and Thermal Stability of Molybdenum-Oxide-Passivated Contact for Si Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36426-36435.	4.0	8
3	Doped Nickel Oxide Carrier-Selective Contact for Silicon Solar Cells. IEEE Journal of Photovoltaics, 2021, 11, 1176-1187.	1.5	10
4	Atomic layer deposition enabling higher efficiency solar cells: A review. Nano Materials Science, 2020, 2, 204-226.	3.9	44
5	Interface Modification Enabled by Atomic Layer Deposited Ultraâ€Thin Titanium Oxide for Highâ€Efficiency and Semitransparent Organic Solar Cells. Solar Rrl, 2020, 4, 2000497.	3.1	15
6	Highâ€Efficiency Nonfullerene Organic Solar Cells Enabled by Atomic Layer Deposited Zirconiumâ€Doped Zinc Oxide. Solar Rrl, 2020, 4, 2000241.	3.1	18
7	Optimized Ni_{1â^'x}Al_xO hole transport layer for silicon solar cells. RSC Advances, 2020, 10, 22377-22386.	1.7	1
8	15% Efficiency Ultrathin Silicon Solar Cells with Fluorine-Doped Titanium Oxide and Chemically Tailored Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) as Asymmetric Heterocontact. ACS Nano, 2019, 13, 6356-6362.	7.3	53
9	Catalyst-free synthesis of ZnO-CuO-ZnFe2O4 nanocomposites by a rapid one-step thermal decomposition approach. Materials Science in Semiconductor Processing, 2019, 90, 41-49.	1.9	8
10	Interfacial Kinetics and Ionic Diffusivity of the Electrodeposited MoS₂ Film. ACS Applied Materials & Interfaces, 2018, 10, 13509-13518.	4.0	27
11	Atomic layer deposited ZnxNi1â^'xO: A thermally stable hole selective contact for silicon solar cells. Applied Physics Letters, 2018, 113, .	1.5	17
12	Enhanced Heterojunction Interface Quality To Achieve 9.3% Efficient Cd-Free Cu₂ZnSnS₄ Solar Cells Using Atomic Layer Deposition ZnSnO Buffer Layer. Chemistry of Materials, 2018, 30, 7860-7871.	3.2	66
13	Controlled growth of Cu2O thin films by electrodeposition approach. Materials Science in Semiconductor Processing, 2017, 63, 203-211.	1.9	74
14	Ecofriendly and Nonvacuum Electrostatic Spray-Assisted Vapor Deposition of Cu(In,Ga)(S,Se)₂ Thin Film Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 22497-22503.	4.0	25
15	Conformal growth of nanocrystalline CdX (X = S, Se) on mesoscopic NiO and their photoelectrochemical properties. Physical Chemistry Chemical Physics, 2013, 15, 4767.	1.3	31
16	Band engineered ternary solid solution CdSxSe1â^'x-sensitized mesoscopic TiO2 solar cells. Physical Chemistry Chemical Physics, 2012, 14, 7154.	1.3	47
17	PbS/CdS-sensitized mesoscopic SnO2 solar cells for enhanced infrared light harnessing. Physical Chemistry Chemical Physics, 2012, 14, 7367.	1.3	59
18	CdSe-sensitized mesoscopic TiO2 solar cells exhibiting >5% efficiency: redundancy of CdS buffer layer. Journal of Materials Chemistry, 2012, 22, 16235.	6.7	140

#	Article	IF	Citations
19	Characteristics of p-NiO Thin Films Prepared by Spray Pyrolysis and Their Application in CdS-sensitized Photocathodes. Journal of the Electrochemical Society, 2011, 158, H733.	1.3	56
20	Carrier Generation and Collection in CdS/CdSe-Sensitized SnO₂ Solar Cells Exhibiting Unprecedented Photocurrent Densities. ACS Nano, 2011, 5, 3172-3181.	7.3	243
21	Mesoporous SnO₂ Spheres Synthesized by Electrochemical Anodization and Their Application in CdSe-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 21878-21884.	1.5	75