

# M A Hossain

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

1,021  
citations

567281  
15  
h-index

713466  
21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1730  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Carrier Generation and Collection in CdS/CdSe-Sensitized SnO <sub>2</sub> Solar Cells Exhibiting Unprecedented Photocurrent Densities. ACS Nano, 2011, 5, 3172-3181.  | 14.6 | 243       |
| 2  | CdSe-sensitized mesoscopic TiO <sub>2</sub> solar cells exhibiting >5% efficiency: redundancy of CdS buffer layer. Journal of Materials Chemistry, 2012, 22, 16235.   | 6.7  | 140       |
| 3  | Mesoporous SnO <sub>2</sub> Spheres Synthesized by Electrochemical Anodization and Their Application in CdSe-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 21878-21884.                               | 3.1  | 75        |
| 4  | Controlled growth of Cu <sub>2</sub> O thin films by electrodeposition approach. Materials Science in Semiconductor Processing, 2017, 63, 203-211.  | 4.0  | 74        |
| 5  | Enhanced Heterojunction Interface Quality To Achieve 9.3% Efficient Cd-Free Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells Using Atomic Layer Deposition ZnSnO Buffer Layer. Chemistry of Materials, 2018, 30, 7860-7871.   | 6.7  | 66        |
| 6  | PbS/CdS-sensitized mesoscopic SnO <sub>2</sub> solar cells for enhanced infrared light harnessing. Physical Chemistry Chemical Physics, 2012, 14, 7367.   | 2.8  | 59        |
| 7  | 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.   | 2.9  | 56        |
| 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. | 14.6 | 53        |
| 9  | Band engineered ternary solid solution CdS <sub>x</sub> Se <sub>1-x</sub> -sensitized mesoscopic TiO <sub>2</sub> solar cells. Physical Chemistry Chemical Physics, 2012, 14, 7154.   | 2.8  | 47        |
| 10 | Atomic layer deposition enabling higher efficiency solar cells: A review. Nano Materials Science, 2020, 2, 204-226.   | 8.8  | 44        |
| 11 | Conformal growth of nanocrystalline CdX (X = S, Se) on mesoscopic NiO and their photoelectrochemical properties. Physical Chemistry Chemical Physics, 2013, 15, 4767.   | 2.8  | 31        |
| 12 | Interfacial Kinetics and Ionic Diffusivity of the Electrodeposited MoS <sub>2</sub> Film. ACS Applied Materials & Interfaces, 2018, 10, 13509-13518.  | 8.0  | 27        |
| 13 | Ecofriendly and Nonvacuum Electrostatic Spray-Assisted Vapor Deposition of Cu(In,Ga)(S,Se) <sub>2</sub> Thin Film Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 22497-22503.                                    | 8.0  | 25        |
| 14 | High-Efficiency Nonfullerene Organic Solar Cells Enabled by Atomic Layer Deposited Zirconium-Doped Zinc Oxide. Solar Rrl, 2020, 4, 2000241.   | 5.8  | 18        |
| 15 | Atomic layer deposited Zn <sub>x</sub> Ni <sub>1-x</sub> O: A thermally stable hole selective contact for silicon solar cells. Applied Physics Letters, 2018, 113, .  | 3.3  | 17        |
| 16 | Interface Modification Enabled by Atomic Layer Deposited Ultra-Thin Titanium Oxide for High-Efficiency and Semitransparent Organic Solar Cells. Solar Rrl, 2020, 4, 2000497.  | 5.8  | 15        |
| 17 | Doped Nickel Oxide Carrier-Selective Contact for Silicon Solar Cells. IEEE Journal of Photovoltaics, 2021, 11, 1176-1187.   | 2.5  | 10        |
| 18 | Catalyst-free synthesis of ZnO-CuO-ZnFe <sub>2</sub> O <sub>4</sub> nanocomposites by a rapid one-step thermal decomposition approach. Materials Science in Semiconductor Processing, 2019, 90, 41-49.                      | 4.0  | 8         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Impact of Pregrown SiO <sub>x</sub> on the Carrier Selectivity and Thermal Stability of Molybdenum-Oxide-Passivated Contact for Si Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36426-36435. | 8.0 | 8         |
| 20 | Designing 3d metal oxides: selecting optimal density functionals for strongly correlated materials. Physical Chemistry Chemical Physics, 2022, 24, 14119-14139.  | 2.8 | 4         |
| 21 | Optimized Ni <sub>1-x</sub> Al <sub>x</sub> O hole transport layer for silicon solar cells. RSC Advances, 2020, 10, 22377-22386.   | 3.6 | 1         |