

Sandeep Pathak

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

6,684
citations

471061

17
h-index

713013

21
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23
all docs

23
docs citations

23
times ranked

10065
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Overcoming ultraviolet light instability of sensitized TiO ₂ with meso-superstructured organometal tri-halide perovskite solar cells. <i>Nature Communications</i> , 2013, 4, 2885. | 5.8 | 1,592 |
| 2 | High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1421-1426. | 2.1 | 1,490 |
| 3 | Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 10030. | 5.8 | 620 |
| 4 | Lithium salts as redox active p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2572. | 1.3 | 557 |
| 5 | The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015, 9, 9380-9393. | 7.3 | 451 |
| 6 | Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016, 9, 2892-2901. | 15.6 | 372 |
| 7 | Perovskite Crystals for Tunable White Light Emission. <i>Chemistry of Materials</i> , 2015, 27, 8066-8075. | 3.2 | 362 |
| 8 | Doping of TiO ₂ for sensitized solar cells. <i>Chemical Society Reviews</i> , 2015, 44, 8326-8349. | 18.7 | 355 |
| 9 | Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organic-Inorganic Perovskite Solar Cells. <i>ACS Nano</i> , 2015, 9, 2311-2320. | 7.3 | 173 |
| 10 | Protic Ionic Liquids as p-Dopant for Organic Hole Transporting Materials and Their Application in High Efficiency Hybrid Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 13538-13548. | 6.6 | 167 |
| 11 | Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nd Doping of Mesostructured TiO ₂ . <i>Advanced Energy Materials</i> , 2016, 6, 1501868. | 10.2 | 157 |
| 12 | Employing PEDOT as the p-Type Charge Collection Layer in Regular Organic-Inorganic Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1666-1673. | 2.1 | 96 |
| 13 | The mechanism of toluene-assisted crystallization of organic-inorganic perovskites for highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4464-4471. | 5.2 | 86 |
| 14 | Electroluminescence from Organometallic Lead Halide Perovskite-Conjugated Polymer Diodes. <i>Advanced Electronic Materials</i> , 2015, 1, 1500008. | 2.6 | 62 |
| 15 | ZrO ₂ /TiO ₂ Electron Collection Layer for Efficient Meso-Superstructured Hybrid Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2342-2349. | 4.0 | 41 |
| 16 | Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for High Efficiency Perovskite Solar Cells. <i>Small</i> , 2017, 13, 1602808. | 5.2 | 36 |
| 17 | Present Status and Future Perspective of Antimony Chalcogenide (Sb ₂ X ₃) Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022, 5, 6545-6585. | 2.5 | 21 |
| 18 | Room temperature synthesis of perovskite (MAPbI ₃) single crystal by anti-solvent assisted inverse temperature crystallization method. <i>Journal of Crystal Growth</i> , 2020, 537, 125598. | 0.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Analysing the Prospects of Perovskite Solar Cells within the Purview of Recent Scientific Advancements. Crystals, 2018, 8, 242. | 1.0 | 13 |
| 20 | Enhanced photosensitive properties of a single-crystal formamidinium lead bromide iodine (FAPbBr ₂) based photodetector. Materials Advances, 2022, 3, 2089-2095. | 2.6 | 11 |
| 21 | Perylene diimide based low band gap copolymers: synthesis, characterization and their applications in perovskite solar cells. Journal of Polymer Research, 2020, 27, 1. | 1.2 | 3 |
| 22 | Novel low cost hole transporting materials for efficient organic-inorganic perovskite solar cells. , 2015, , . | | 1 |