

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	Enhanced photosensitive properties of a single-crystal formamidinium lead bromide iodine (FAPbBr ₂) based photodetector. <i>Materials Advances</i> , 2022, 3, 2089-2095.	2.6	11
2	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
3	Perylene diimide based low band gap copolymers: synthesis, characterization and their applications in perovskite solar cells. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	3
4	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
5	Analysing the Prospects of Perovskite Solar Cells within the Purview of Recent Scientific Advancements. <i>Crystals</i> , 2018, 8, 242.	1.0	13
6	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
7	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
8	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016, 9, 2892-2901.	15.6	372
9	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
10	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
11	Novel low cost hole transporting materials for efficient organic-inorganic perovskite solar cells. , 2015, , .		1
12	Electroluminescence from Organometallic Lead Halide Perovskite-Conjugated Polymer Diodes. <i>Advanced Electronic Materials</i> , 2015, 1, 1500008.	2.6	62
13	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
14	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015, 9, 9380-9393.	7.3	451
15	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
16	Perovskite Crystals for Tunable White Light Emission. <i>Chemistry of Materials</i> , 2015, 27, 8066-8075.	3.2	362
17	Doping of TiO ₂ for sensitized solar cells. <i>Chemical Society Reviews</i> , 2015, 44, 8326-8349.	18.7	355
18	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

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19	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
20	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
21	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
22	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