Sandeep Pathak

List of Publications by Year
in descending order

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22 papers	6,684 citations	471509 17 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	10065 citing authors

#	Article	IF	Citations
1	Overcoming ultraviolet light instability of sensitized TiO2 with meso-superstructured organometal tri-halide perovskite solar cells. Nature Communications, 2013, 4, 2885.	12.8	1,592
2	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. Journal of Physical Chemistry Letters, 2014, 5, 1421-1426.	4.6	1,490
3	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. Nature Communications, 2015, 6, 10030.	12.8	620
4	Lithium salts as â€œredox activeâ€•p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 2572.	2.8	557
5	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. ACS Nano, 2015, 9, 9380-9393.	14.6	451
6	Efficient perovskite solar cells by metal ion doping. Energy and Environmental Science, 2016, 9, 2892-2901.	30.8	372
7	Perovskite Crystals for Tunable White Light Emission. Chemistry of Materials, 2015, 27, 8066-8075.	6.7	362
8	Doping of TiO₂for sensitized solar cells. Chemical Society Reviews, 2015, 44, 8326-8349.	38.1	355
9	Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2015, 9, 2311-2320.	14.6	173
10	Protic Ionic Liquids as p-Dopant for Organic Hole Transporting Materials and Their Application in High Efficiency Hybrid Solar Cells. Journal of the American Chemical Society, 2013, 135, 13538-13548.	13.7	167
11	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Ndâ€Doping of Mesostructured TiO₂. Advanced Energy Materials, 2016, 6, 1501868.	19.5	157
12	Employing PEDOT as the p-Type Charge Collection Layer in Regular Organicâ€“Inorganic Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1666-1673.	4.6	96
13	The mechanism of toluene-assisted crystallization of organicâ€“inorganic perovskites for highly efficient solar cells. Journal of Materials Chemistry A, 2016, 4, 4464-4471.	10.3	86
14	Electroluminescence from Organometallic Lead Halide Perovskiteâ€Conjugated Polymer Diodes. Advanced Electronic Materials, 2015, 1, 1500008.	5.1	62
15	ZrO₂/TiO₂ Electron Collection Layer for Efficient Meso-Superstructured Hybrid Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 2342-2349.	8.0	41
16	Controlling Nucleation and Growth of Metal Halide Perovskite Thin Films for Highâ€Efficiency Perovskite Solar Cells. Small, 2017, 13, 1602808.	10.0	36
17	Present Status and Future Perspective of Antimony Chalcogenide (Sb₂X₃) Photovoltaics. ACS Applied Energy Materials, 2022, 5, 6545-6585.	5.1	21
18	Room temperature synthesis of perovskite (MAPbI3) single crystal by anti-solvent assisted inverse temperature crystallization method. Journal of Crystal Growth, 2020, 537, 125598.	1.5	18

#	Article	IF	Citations
19	Analysing the Prospects of Perovskite Solar Cells within the Purview of Recent Scientific Advancements. Crystals, 2018, 8, 242.	2.2	13
20	Enhanced photosensitive properties of a single-crystal formamidinium lead bromide iodine (FAPbBr₂I) based photodetector. Materials Advances, 2022, 3, 2089-2095.	5.4	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.	2.4	3
22	Novel low cost hole transporting materials for efficient organic-inorganic perovskite solar cells. , 2015, , .		1