

Dhirendra Kumar Chaudhary

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

408
citations

933447

10
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Large area semitransparent inverted organic solar cells with enhanced operational stability using TiO ₂ electron transport layer for building integrated photovoltaic devices. <i>Materials Letters</i> , 2021, 283, 128725.	2.6	14
2	Effects of 10 MeV Al ⁴⁺ ions irradiation on fluorine-doped tin oxide substrates for photovoltaic device applications. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 275502.	2.8	6
3	Thickness effect on scaling law and surface properties of nano-dimensional SnTe thin films. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	4
4	Core/Shell Nanocrystal Tailored Carrier Dynamics in Hysteresisless Perovskite Solar Cells with ~20% Efficiency and Long Operational Stability. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 591-600.	4.6	21
5	Charge Transport between Coaxial Polymer Nanorods and Grafted All-Inorganic Perovskite Nanocrystals for Hybrid Organic Solar Cells with Enhanced Photoconversion Efficiency. <i>Journal of Physical Chemistry C</i> , 2020, 124, 246-255.	3.1	11
6	Fullerene (C ₆₀)-modulated surface evolution in CH ₃ NH ₃ PbI ₃ and its role in controlling the performance of inverted perovskite solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11150-11158.	2.2	7
7	All-inorganic quantum dot assisted enhanced charge extraction across the interfaces of bulk organo-halide perovskites for efficient and stable pin-hole free perovskite solar cells. <i>Chemical Science</i> , 2019, 10, 9530-9541.	7.4	43
8	Attuning the Electronic Properties of Two-Dimensional Co-Fe-O for Accelerating Water Electrolysis and Photolysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30682-30693.	8.0	16
9	Bulk-heterojunction hybrid solar cells with non-toxic, earth abundant stannite phase CuZn ₂ AlS ₄ nanocrystals. <i>Thin Solid Films</i> , 2018, 649, 202-209.	1.8	6
10	High performance duckweed-derived carbon support to anchor NiFe electrocatalysts for efficient solar energy driven water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18948-18959.	10.3	58
11	Dependence of halide composition on the stability of highly efficient all-inorganic cesium lead halide perovskite quantum dot solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 28-35.	6.2	82
12	Broad range and highly sensitive optical pH sensor based on Hierarchical ZnO microflowers over tapered silica fiber. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 399-405.	4.1	36
13	Improved photovoltaic performance of bilayer small molecular solar cells via geometrical rearrangement of active materials. <i>Materials Technology</i> , 2017, 32, 792-799.	3.0	7
14	Impact of CH ₃ NH ₃ PbI ₃ -PCBM bulk heterojunction active layer on the photovoltaic performance of perovskite solar cells. <i>Chemical Physics Letters</i> , 2017, 685, 210-216.	2.6	10
15	Realization of efficient perovskite solar cells with MEH:PPV hole transport layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3451-3457.	2.2	12
16	Nanostructuring on zinc phthalocyanine thin films for single-junction organic solar cells. <i>AIP Conference Proceedings</i> , 2016, .	0.4	4
17	Solution-processed Cu ₂ XSn ₄ (X = Fe, Co, Ni) photo-electrochemical and thin film solar cells on vertically grown ZnO nanorod arrays. <i>RSC Advances</i> , 2016, 6, 115204-115212.	3.6	54
18	Evolution in surface coverage of CH ₃ NH ₃ PbI ₃ XCl _X via heat assisted solvent vapour treatment and their effects on photovoltaic performance of devices. <i>RSC Advances</i> , 2016, 6, 94731-94738.	3.6	10

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19	Controlled growth of ZnPc nanostructures via heat assisted solvent vapour treatment method and application in photovoltaic devices. Journal of Materials Science: Materials in Electronics, 2016, 27, 10701-10706.	2.2	1
20	Morphological Studies on Ag Doped CdZnS Alloy Nanostructures. Materials Focus, 2016, 5, 146-153.	0.4	3
21	Studies on Photovoltaic Properties of ZnPc/PTCDA Based Bilayer Organic Solar Cells. Advanced Science Letters, 2014, 20, 1515-1518.	0.2	2