

Rahul Ranjan

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

417
citations

933447

10
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of tantalum doping in a TiO ₂ compact layer on the performance of planar spiro-OMeTAD free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1037-1047.	10.3	86
2	Progress in tailoring perovskite based solar cells through compositional engineering: Materials properties, photovoltaic performance and critical issues. <i>Materials Today Energy</i> , 2018, 9, 440-486.	4.7	58
3	The effect of dimensionality on the charge carrier mobility of halide perovskites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21551-21575.	10.3	49
4	Lewis Base Passivation of Quasi-2D Ruddlesden-Popper Perovskite for Order of Magnitude Photoluminescence Enhancement and Improved Stability. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1572-1582.	4.3	38
5	Eco-friendly synthesis of CuInS ₂ and CuInS ₂ @ZnS quantum dots and their effect on enzyme activity of lysozyme. <i>RSC Advances</i> , 2018, 8, 30589-30599.	3.6	29
6	Dicyanovinylene and Thiazolo[5,4-d]thiazole Core Containing D Type Hole-Transporting Materials for Spiro-OMeTAD-Free Perovskite Solar Cell Applications with Superior Atmospheric Stability. <i>ACS Applied Energy Materials</i> , 2019, 2, 7609-7618.	5.1	26
7	Enhanced efficiency and thermal stability of mesoscopic perovskite solar cells by adding PC70BM acceptor. <i>Solar Energy Materials and Solar Cells</i> , 2019, 202, 110130.	6.2	23
8	Role of PC60BM in defect passivation and improving degradation behaviour in planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 207, 110335.	6.2	23
9	Temperature Assisted Nucleation and Growth To Optimize Perovskite Morphology at Liquid Interface: A Study by Electrochemical Impedance Spectroscopy. <i>ACS Applied Energy Materials</i> , 2018, 1, 4420-4425.	5.1	19
10	Recent Progress on Hole-Transporting Materials for Perovskite-Sensitized Solar Cells. , 2018, , 279-324.		12
11	Low-Temperature Microwave Processed TiO ₂ as an Electron Transport Layer for Enhanced Performance and Atmospheric Stability in Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 2679-2696.	5.1	11
12	Effect of NiO Precursor Solution Ageing on the Perovskite Film Formation and Their Integration as Hole Transport Material for Perovskite Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3710-3717.	0.9	9
13	Enhanced thermal and moisture stability via dual additives approach in methylammonium lead iodide based planar perovskite solar cells. <i>Solar Energy</i> , 2021, 225, 200-210.	6.1	9
14	Exfoliation and gelation in laponite-carboxymethyl cellulose complexes and its application in sustained drug release. <i>Polymer Bulletin</i> , 2020, 77, 5389-5406.	3.3	7
15	Partial Heel Pad Avulsion with Open Calcaneal Tuberosity Fracture with Tendo-achilles Rupture: A Case Report. <i>Journal of Orthopaedic Case Reports</i> , 2016, 6, 44-48.	0.1	5
16	Bilateral Tubercular Dactylitis: Unusual presentation of an usual disease. <i>Indian Journal of Tuberculosis</i> , 2019, 66, 346-352.	0.7	4
17	Atraumatic Acute Compartment Syndrome of Forearm Following Artificial Mehndi (Henna) Dermatitis – A Rare Case Report. <i>Journal of Clinical and Diagnostic Research JCDR</i> , 2017, 11, RD01-RD03.	0.8	4
18	Inadvertent injection of potassium chloride instead of sodium chloride during treatment of chronic low back ache with epidural injection leading to paraplegia. <i>Journal of Craniovertebral Junction and Spine</i> , 2016, 7, 279.	0.8	3

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19	Management of neglected lateral condyle fracture of humerus: A comparison between two modalities of fixation. Indian Journal of Orthopaedics, 2018, 52, 423.	1.1	2