

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

#	ARTICLE	IF	CITATIONS
19	Inadvertent injection of potassium chloride instead of sodium chloride during treatment of chronic low back ache with epidural injection leading to paraplegia. Journal of Craniovertebral Junction and Spine, 2016, 7, 279.	0.8	3