

# Avishek Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

401  
citations

933447

10  
h-index

940533

16  
g-index

16  
all docs

16  
docs citations

16  
times ranked

494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of p-CuO/n-Si Heterojunction Solar Cell Performance Through Nitrogen Plasma Treatment. <i>Journal of Electronic Materials</i> , 2021, 50, 1720-1725.	2.2	5
2	Functional nanomaterials, synergisms, and biomimicry for environmentally benign marine antifouling technology. <i>Materials Horizons</i> , 2021, 8, 3201-3238.	12.2	44
3	Pulse Plasma Deposition of Terpinen-4-ol: An Insight into Polymerization Mechanism and Enhanced Antibacterial Response of Developed Thin Films. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 339-355.	2.4	17
4	In-Situ Surface Modification of Terpinen-4-ol Plasma Polymers for Increased Antibacterial Activity. <i>Materials</i> , 2020, 13, 586.	2.9	6
5	Electrically Insulating Plasma Polymer/ZnO Composite Films. <i>Materials</i> , 2019, 12, 3099.	2.9	8
6	Eco-friendly nanocomposites derived from geranium oil and zinc oxide in one step approach. <i>Scientific Reports</i> , 2019, 9, 5973.	3.3	29
7	Tailoring terpenoid plasma polymer properties by controlling the substrate temperature during PECVD. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45771.	2.6	10
8	Biodegradable optically transparent terpinen-4-ol thin films for marine antifouling applications. <i>Surface and Coatings Technology</i> , 2018, 349, 426-433.	4.8	18
9	Plant Secondary Metabolite-Derived Polymers: A Potential Approach to Develop Antimicrobial Films. <i>Polymers</i> , 2018, 10, 515.	4.5	24
10	Aluminium alloyed iron-silicide/silicon solar cells: A simple approach for low cost environmental-friendly photovoltaic technology. <i>Scientific Reports</i> , 2016, 5, 17810.	3.3	28
11	Optical bandgap widening and phase transformation of nitrogen doped cupric oxide. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	41
12	0.4% absolute efficiency increase for inline-diffused screen-printed multicrystalline silicon wafer solar cells by non-acidic deep emitter etch-back. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 193-201.	6.2	11
13	p-CuO/n-Si heterojunction solar cells with high open circuit voltage and photocurrent through interfacial engineering. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 637-645.	8.1	86
14	Reduction of Cu-rich interfacial layer and improvement of bulk CuO property through two-step sputtering for p-CuO/n-Si heterojunction solar cell. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	55
15	Impact of Al Passivation and Cosputter on the Structural Property of $\text{FeSi}_2$ for Al-Doped $\text{FeSi}_2$ /n-Si(100) Based Solar Cells Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5455-5460.	8.0	14
16	Static Large-Area Hydrogenation of Polycrystalline Silicon Thin-Film Solar Cells on Glass Using a Linear Microwave Plasma Source. <i>IEEE Journal of Photovoltaics</i> , 2012, 2, 580-585.	2.5	5