

Avishek Kumar

List of Publications by Year in descending order

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16
papers

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#	ARTICLE	IF	CITATIONS
1	<i>p-CuO/n-Si</i> 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
2	Reduction of Cu-rich interfacial layer and improvement of bulk CuO property through two-step sputtering for <i>p-CuO/n-Si</i> heterojunction solar cell. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	55
3	Functional nanomaterials, synergisms, and biomimicry for environmentally benign marine antifouling technology. <i>Materials Horizons</i> , 2021, 8, 3201-3238.	12.2	44
4	Optical bandgap widening and phase transformation of nitrogen doped cupric oxide. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	41
5	Eco-friendly nanocomposites derived from geranium oil and zinc oxide in one step approach. <i>Scientific Reports</i> , 2019, 9, 5973.	3.3	29
6	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
7	Plant Secondary Metabolite-Derived Polymers: A Potential Approach to Develop Antimicrobial Films. <i>Polymers</i> , 2018, 10, 515.	4.5	24
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	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
10	Impact of Al Passivation and Cosputter on the Structural Property of FeSi_2 for Al-Doped FeSi_2 - <i>n-Si</i> (100) Based Solar Cells Application. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5455-5460.	8.0	14
11	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
12	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
13	Electrically Insulating Plasma Polymer/ZnO Composite Films. <i>Materials</i> , 2019, 12, 3099.	2.9	8
14	In-Situ Surface Modification of Terpinen-4-ol Plasma Polymers for Increased Antibacterial Activity. <i>Materials</i> , 2020, 13, 586.	2.9	6
15	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
16	Improvement of <i>p-CuO/n-Si</i> Heterojunction Solar Cell Performance Through Nitrogen Plasma Treatment. <i>Journal of Electronic Materials</i> , 2021, 50, 1720-1725.	2.2	5