

Premkumar Vincent

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

311
citations

933264

10
h-index

839398

18
g-index

20
all docs

20
docs citations

20
times ranked

360
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile use of ZnO interlayer in hybrid solar cells for self-powered near infra-red photo-detecting application. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152202.	2.8	19
2	Contact line curvature-induced molecular misorientation of a surface energy patterned organic semiconductor in meniscus-guided coating. <i>Applied Surface Science</i> , 2020, 504, 144362.	3.1	10
3	Effect of High-Speed Blade Coating on Electrical Characteristics in Polymer Based Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5486-5490.	0.9	3
4	Organic tandem solar cells under indoor light illumination. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 946-955.	4.4	18
5	Application of Genetic Algorithm for More Efficient Multi-Layer Thickness Optimization in Solar Cells. <i>Energies</i> , 2020, 13, 1726.	1.6	13
6	Theoretical Analysis of Prospects of Organic Photovoltaics as a Multi-Functional Solar Cell and Laser Power Converter for Wireless Power Transfer. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4878-4883.	0.9	1
7	Alternative approach to optimizing optical spacer layer thickness in solar cell using evolutionary algorithm. , 2019, , .		0
8	Ultra-thick semi-crystalline photoactive donor polymer for efficient indoor organic photovoltaics. <i>Nano Energy</i> , 2019, 58, 466-475.	8.2	79
9	The Crucial Role of Quaternary Mixtures of Active Layer in Organic Indoor Solar Cells. <i>Energies</i> , 2019, 12, 1838.	1.6	12
10	Effect of UV and Water on Electrical Properties at Pre- and Post-Annealing Processes in Solution-Processed InGaZnO Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2240-2246.	0.9	1
11	Quaternary indoor organic photovoltaic device demonstrating panchromatic absorption and power conversion efficiency of 10%. <i>Dyes and Pigments</i> , 2019, 163, 48-54.	2.0	35
12	Reduction of hysteresis in solution-processed InGaZnO thin-film transistors through uni-directional pre-annealing. <i>Journal of the Korean Physical Society</i> , 2018, 72, 270-275.	0.3	1
13	Towards maximizing the haze effect of electrodes for high efficiency hybrid tandem solar cell. <i>Applied Surface Science</i> , 2018, 432, 262-265.	3.1	13
14	Optimizing the efficiency of organic solar cell under indoor light via controlling optical absorption. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 660, 85-89.	0.4	12
15	Correlating the nanoparticle size dependent refractive index of ZnO optical spacer layer and the efficiency of hybrid solar cell through optical modelling. <i>Thin Solid Films</i> , 2018, 660, 558-563.	0.8	10
16	Indoor-type photovoltaics with organic solar cells through optimal design. <i>Dyes and Pigments</i> , 2018, 159, 306-313.	2.0	70
17	Importance of angular mismatch on anisotropic field-effect mobility in solution-processed organic thin-film transistors. <i>AIP Advances</i> , 2017, 7, 035319.	0.6	3
18	Dependence of the hybrid solar cell efficiency on the thickness of ZnO nanoparticle optical spacer interlayer. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 254-259.	0.4	7

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19	Numerical study on off-current features in an organic transistor by controlling electrode-overlap area. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 635, 67-73.	0.4	1
20	Efficiently-designed hybrid tandem photovoltaic with organic and inorganic single cells. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1094-1098.	0.3	3