Kshitij Bhargava

List of Publications by Year
in descending order

33	187	1307594 7	1125743 13
papers	citations	h-index	g-index

34	34	34	179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical simulation of potential induced degradation (PID) in different thin-film solar cells using SCAPS-1D. Solar Energy, 2019, 188, 353-360.	6.1	38
2	Electrical characterization and parameter extraction of organic thin film transistors using two dimensional numerical simulations. Journal of Computational Electronics, 2014, 13, 585-592.	2.5	25
3	High-sensitivity organic phototransistors prepared by floating film transfer method. Applied Physics Express, 2016, 9, 091601.	2.4	25
4	Two Dimensional Optoelectronic Simulation Based Comparison of Top and Bottom Contact Organic Phototransistors. Journal of Nanoscience and Nanotechnology, 2015, 15, 9414-9422.	0.9	16
5	Investigation of Gold and Poly(3-Alkylthiophene) interface in top and bottom contact structures. Synthetic Metals, 2016, 211, 49-57.	3.9	16
6	Comparative analysis of contact resistance and photoresponse in poly(3-hexylthiophene) and poly(3-octylthiophene) based organic field-effect transistors. Synthetic Metals, 2017, 233, 15-21.	3.9	13
7	Comparative investigation into effects of the interplay between absorber layer crystallinity and interfacial defect states on the performance of lead-based and tin-based perovskite solar cells. Semiconductor Science and Technology, 2020, 35, 105007.	2.0	13
8	Hydrothermally Processed Photosensitive Field-Effect Transistor Based on ZnO Nanorod Networks. Journal of Electronic Materials, 2016, 45, 5606-5611.	2.2	7
9	All organic near ultraviolet photodetectors based on bulk hetero-junction of P3HT and DH6T. Semiconductor Science and Technology, 2018, 33, 095021.	2.0	7
10	Fundamental analysis of lead-free CsGeI3 perovskite solar cell. Materials Today: Proceedings, 2022, 67, 180-186.	1.8	5
11	Reduced contact resistance in organic field-effect transistors fabricated using floating film transfer method. Journal of Materials Science: Materials in Electronics, 2020, 31, 15277-15285.	2.2	4
12	Laterally grown show better performance: ZnO nanorods network based field effect transistors. Journal of Materials Science: Materials in Electronics, 2017, 28, 11202-11208.	2.2	3
13	Methods for Calculating the Transformer Hot-Spot Temperature and Lifetime Prediction. , 2018, , .		3
14	Investigating the Influence of Alkyl Chain Length in Poly(3-alkylthiophene)s Over the Thin Film Morphology by Optical and Electrical Characterization. Journal of Nanoscience and Nanotechnology, 2016, 16, 3241-3247.	0.9	2
15	Analysis of Grading Induced Bandgap Variability and Defect States on Performance of CIGS Solar Cells Through Device Simulations. , 2018, , .		2
16	Efficiency and Reproducibility Enhancement in Perovskite Solar Cell With MoSâ„‚ as Electron Transport Layer: A Computational Finding. IEEE Transactions on Electron Devices, 2022, 69, 4349-4354.	3.0	2
17	Exploring the Utility of Graphene as Window Layer Towards Efficiency Improvement in CIGS Solar Cells Using Numerical Simulations. , 2018, , .		1
18	Integration of Distributed Generator for Frequency Regulation and Loss Compensation Ancillary Services. , 2018, , .		1

#	Article	IF	Citations
19	Effect of concentration of DH6T on the performance of photoconductor fabricated using blends of P3HT and DH6T. Optical Materials, 2019, 89, 214-223.	3.6	1
20	Thin-film photovoltaics. , 2022, , 19-37.		1
21	Investigation on the Relative Influence of Absorber Layer Defect States Over Performance of Pb-Based and Sn-Based Perovskite Solar Cells. Smart Innovation, Systems and Technologies, 2020, , 109-118.	0.6	1
22	Theoretical Investigation of the Influence of Defect States on the Power Conversion Efficiency of CZTSSe Solar Cells. , 2018, , .		0
23	Comparative analysis of metal diffusion effects in polymer films coated with spin coating and floating film transfer techniques. Synthetic Metals, 2020, 264, 116378.	3.9	0
24	Numerical simulations of potential-induced degradation. , 2022, , 85-108.		0
25	Performance-limiting issues in TFPVs. , 2022, , 39-57.		0
26	Yield increase through soiling prevention. , 2022, , 59-72.		0
27	PID for multicrystalline soiled panels: a forecasting-based approach. , 2022, , 109-132.		0
28	Optimization of on-site PID detection methods. , 2022, , 133-149.		0
29	Introduction to photovoltaics. , 2022, , 1-18.		0
30	Numerical Comparison of Defect-Induced Performance Degradation in CZTS and CZTSSe Solar Cells. Advances in Intelligent Systems and Computing, 2019, , 493-500.	0.6	0
31	Spectroscopic Characterization of Metalâ€“Polymer Interface for Electronic Applications. Springer Proceedings in Physics, 2019, , 125-131.	0.2	0
32	Numerical simulation of NFA organic solar cells with C₆₀ and NiO as charge transport layers. , 2022, , .		0
33	Enhanced efficiency, durability and reproducibility of nonâ€fullerene acceptor organic solar cell with <scp>NiO</scp> as hole transport material: A computational study. International Journal of Energy Research, 0, , .	4.5	0