

Abhishek Verma

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

315
citations

11
h-index

16
g-index

52
ext. papers

389
ext. citations

1.9
avg, IF

3.24
L-index

#	Paper	IF	Citations
49	Ultrafast, trace-level detection of NH ₃ gas at room temperature using hexagonal-shaped ZnO nanoparticles grown by novel green synthesis technique. <i>Physica B: Condensed Matter</i> , 2022 , 626, 413595	2.8	0
48	Solar Photovoltaic Tree: Urban PV power plants to increase power to land occupancy ratio. <i>Renewable Energy</i> , 2022 , 190, 283-293	8.1	
47	Highly sensitive MWCNTs/SiNWs hybrid nanostructured sensor fabricated on silicon-chip for alcohol vapors detection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 127, 114538	3	3
46	Concentrated photovoltaic thermal systems using Fresnel lenses [A review]. <i>Materials Today: Proceedings</i> , 2021 , 44, 4256-4260	1.4	2
45	Effect of shape and size of carbon materials on the thermophysical properties of magnesium nitrate hexahydrate for solar thermal energy storage applications. <i>Journal of Energy Storage</i> , 2021 , 41, 102899	7.8	5
44	Recent Advances on Enhanced Thermal Conduction in Phase Change Materials using Carbon Nanomaterials. <i>Journal of Energy Storage</i> , 2021 , 43, 103173	7.8	7
43	Zinc oxide nanoflowers synthesized by sol-gel technique for field emission displays (FEDs). <i>Materials Today: Proceedings</i> , 2020 , 32, 402-406	1.4	4
42	Metal nanoparticles enhanced thermophysical properties of phase change material for thermal energy storage. <i>Materials Today: Proceedings</i> , 2020 , 32, 463-467	1.4	8
41	Hydrothermally synthesized zinc oxide nanoparticles for reflectance study onto Si surface. <i>Materials Today: Proceedings</i> , 2020 , 32, 287-293	1.4	2
40	Fabrication of SiNWs/Graphene nanocomposite for IR sensing. <i>Materials Today: Proceedings</i> , 2020 , 32, 397-401	1.4	1
39	Improved Thermal Conductivity and Energy Storage Properties of Graphitized Carbon Black Based Magnesium Nitrate Hexahydrate Composite. <i>Springer Proceedings in Physics</i> , 2020 , 1-9	0.2	
38	Effect of Additional Heat Treatment in Fabrication Line of n-PERT Bifacial Solar Cell to Improve the Surface Passivation. <i>Springer Proceedings in Physics</i> , 2020 , 11-21	0.2	1
37	Preparation and Optoelectronic Properties of Iridium (III) Complexes Based on 1,3,4-Oxadiazole and Ethiketones. <i>Springer Proceedings in Physics</i> , 2020 , 43-51	0.2	
36	Design and Optimization of Solar Photovoltaic Power Plant in Case of Agrivoltaics. <i>Springer Proceedings in Physics</i> , 2020 , 59-69	0.2	1
35	Enhanced thermophysical properties of Metal oxide nanoparticles embedded magnesium nitrate hexahydrate based nanocomposite for thermal energy storage applications. <i>Journal of Energy Storage</i> , 2020 , 32, 101773	7.8	17
34	Ultraviolet detection properties of electrodeposited n-SnO ₂ modified p-Si nanowires hetero-junction photodiode. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 7618-7628	2.1	15
33	Textured Silicon Surface and Silicon Nanowires on Silicon Chip for Ammonia Sensing Application. <i>Springer Proceedings in Physics</i> , 2019 , 931-937	0.2	

32	A Comparative Study of Metal Oxide Modified, Silicon Wafer and Silicon Nanowires on Silicon Chip as Gas/Vapor Sensing Element. <i>Springer Proceedings in Physics</i> , 2019 , 939-946	0.2	
31	Efficiency Enhancement of Polycrystalline Silicon Solar Cell Due to Integration of Ag Nanoparticles Fabricated by Rapid Thermal Annealing. <i>Springer Proceedings in Physics</i> , 2019 , 489-495	0.2	
30	Enhanced working efficiency of Si solar cell by water induced nano-porous thermal cooling layer. <i>Materials Research Express</i> , 2019 , 6, 095053	1.7	1
29	Enhanced Thermal Characteristics of NG Based Acetamide Composites. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 2019 , 8, 4227-4231	1.6	11
28	Effect of Water on Cooling Efficiency of Activated Carbon Based Thermal Cooling Layer Beneath the Solar Cell to Boost Their Working Efficiency. <i>Springer Proceedings in Physics</i> , 2019 , 481-487	0.2	
27	Fabrication of silver nanoparticles on glass substrate using low-temperature rapid thermal annealing. <i>Energy and Environment</i> , 2018 , 29, 358-371	2.4	6
26	Efficiency enhancement of silicon solar cells using highly porous thermal cooling layer. <i>Energy and Environment</i> , 2018 , 29, 1495-1511	2.4	6
25	Performance Evaluation of Lazy and Decision Tree Classifier: A Data Mining Approach for Global Celebrity Death Analysis 2018 ,		3
24	Performance Evaluation of Lazy and Decision Tree Classifier: A Data Mining Approach for Global Celebrity Death Analysis 2018 ,		2
23	Formation of plasmonic silver nanoparticles using rapid thermal annealing at low temperature and study in reflectance reduction of Si surface. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2017 , 8, 035010	1.6	12
22	Thermal properties of nano-graphite-embedded magnesium chloride hexahydrate phase change composites. <i>Energy and Environment</i> , 2017 , 28, 651-660	2.4	18
21	Study of Growth of Silver Nanoparticles as Plasmonic Layer on pc-Si Wafer to Enhance the Efficiency of Solar Cells. <i>Springer Proceedings in Physics</i> , 2017 , 269-275	0.2	2
20	A Review on Thermophysical Properties of Nanoparticle-Enhanced Phase Change Materials for Thermal Energy Storage. <i>Springer Proceedings in Physics</i> , 2017 , 37-47	0.2	11
19	Growth of Graded SixNy ARC Films to Enhance the Efficiency of Multi-crystalline Silicon Solar Cells and Applicable in High Volume Production. <i>Springer Proceedings in Physics</i> , 2017 , 277-291	0.2	1
18	Theoretical Analysis of Surface Plasmonic Ag Nanoparticles Embedded in C-, Pc-, a-Si Thin-Film Solar Cell, Using Mie Scattering. <i>Springer Proceedings in Physics</i> , 2017 , 293-300	0.2	
17	Antireflection Properties of Multi-crystalline Black Silicon with Acid Textured Surfaces Using Two Step Metal Assisted Chemical Etching. <i>Springer Proceedings in Physics</i> , 2017 , 23-28	0.2	
16	Effect of Temperature and Ferro-Fluid on Rotation of Rare Earth Magnet Used for Clean Energy Generation. <i>Springer Proceedings in Physics</i> , 2017 , 475-478	0.2	
15	Clean Energy Harvester Using Rare Earth Magnet and Ferro-Fluid. <i>Springer Proceedings in Physics</i> , 2017 , 461-464	0.2	

14	Environmentally Benign TiO ₂ Nanomaterials for Removal of Heavy Metal Ions with Interfering Ions Present in Tap Water. <i>Materials Today: Proceedings</i> , 2016 , 3, 162-166	1.4	25
13	Study of formation and influence of surface plasmonic silver nanoparticles in efficiency enhancement for c-Si solar cells 2016 ,		1
12	Solar thermal charging properties of graphene oxide embedded myristic acid composites phase change material 2016 ,		11
11	Ultrafast thermal charging of inorganic nano-phase change material composites for solar thermal energy storage. <i>RSC Advances</i> , 2015 , 5, 56541-56548	3.7	36
10	Development and characterization of an efficient bio-white polymer light-emitting diode with red and green phosphorescent dyes as dopants. <i>Journal of Materials Science</i> , 2010 , 45, 3300-3303	4.3	7
9	Increased luminance of MEHBPV and PFO based PLEDs by using salmon DNA as an electron blocking layer. <i>Journal of Luminescence</i> , 2010 , 130, 331-333	3.8	28
8	Enhanced luminance of MEH-PPV based PLEDs using single walled carbon nanotube composite as an electron transporting layer. <i>Journal of Luminescence</i> , 2010 , 130, 2157-2160	3.8	18
7	COMPOSITIONAL EFFECT ON THE OPTICAL ABSORPTION AND PHOTOLUMINESCENCE OF CdS _x Se _{1-x} QUANTUM DOTS EMBEDDED IN BOROSILICATE GLASSES. <i>International Journal of Nanoscience</i> , 2009 , 08, 403-408	0.6	4
6	TWO-PHOTON ABSORPTION IN QUANTUM DOTS OF CdS _x Se _{1-x} USING OPEN APERTURE Z-SCAN AND FEMTOSECOND LASER. <i>Nano</i> , 2009 , 04, 23-29	1.1	3
5	The effect of length of single-walled carbon nanotubes (SWNTs) on electrical properties of conducting polymer/SWNT composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 48, 89-95	2.6	17
4	Study of optical absorption and photoluminescence of quantum dots of CdS formed in borosilicate glass matrix. <i>Physica Scripta</i> , 2009 , 79, 065601	2.6	11
3	GROWTH DYNAMICS OF II-VI COMPOUND SEMICONDUCTOR QUANTUM DOTS EMBEDDED IN BOROSILICATE GLASS MATRIX. <i>International Journal of Nanoscience</i> , 2008 , 07, 151-160	0.6	2
2	Trap elimination and reduction of size dispersion due to aging in CdS x Se _{1-x} quantum dots. <i>Journal of Nanoparticle Research</i> , 2007 , 9, 1125-1131	2.3	12
1	A study on passivation improvement in n-passivated emitter rear totally diffused solar cell using rapid thermal annealing. <i>Energy and Environment</i> , 0958305X2210915	2.4	