

Abhishek Verma

List of Publications by Year in descending order

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48
papers

479
citations

686830

13
h-index

752256

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52
all docs

52
docs citations

52
times ranked

471
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.9	40
2	Ultrafast thermal charging of inorganic nano-phase change material composites for solar thermal energy storage. <i>RSC Advances</i> , 2015, 5, 56541-56548.	1.7	39
3	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.	0.9	35
4	Increased luminance of MEH-PPV and PFO based PLEDs by using salmon DNA as an electron blocking layer. <i>Journal of Luminescence</i> , 2010, 130, 331-333.	1.5	31
5	Recent Advances on Enhanced Thermal Conduction in Phase Change Materials using Carbon Nanomaterials. <i>Journal of Energy Storage</i> , 2021, 43, 103173.	3.9	28
6	Thermal properties of nano-graphite-embedded magnesium chloride hexahydrate phase change composites. <i>Energy and Environment</i> , 2017, 28, 651-660.	2.7	22
7	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> , 2010, 48, 89-95.	2.4	20
8	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.	1.1	20
9	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.	1.5	19
10	Metal nanoparticles enhanced thermophysical properties of phase change material for thermal energy storage. <i>Materials Today: Proceedings</i> , 2020, 32, 463-467.	0.9	17
11	Solar thermal charging properties of graphene oxide embedded myristic acid composites phase change material. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	15
12	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.	0.7	15
13	A Review on Thermophysical Properties of Nanoparticle-Enhanced Phase Change Materials for Thermal Energy Storage. <i>Springer Proceedings in Physics</i> , 2017, , 37-47.	0.1	15
14	Enhanced Thermal Characteristics of NG Based Acetamide Composites. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 2019, 8, 4227-4231.	0.2	15
15	Solar Photovoltaic Tree: Urban PV power plants to increase power to land occupancy ratio. <i>Renewable Energy</i> , 2022, 190, 283-293.	4.3	14
16	Efficiency enhancement of silicon solar cells using highly porous thermal cooling layer. <i>Energy and Environment</i> , 2018, 29, 1495-1511.	2.7	13
17	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.	3.9	13
18	Trap elimination and reduction of size dispersion due to aging in CdS x Se1-x quantum dots. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1125-1131.	0.8	12

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19	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.	1.3	12
20	Study of optical absorption and photoluminescence of quantum dots of CdS formed in borosilicate glass matrix. <i>Physica Scripta</i> , 2009, 79, 065601.	1.2	11
21	Zinc oxide nanoflowers synthesized by sol-gel technique for field emission displays (FEDs). <i>Materials Today: Proceedings</i> , 2020, 32, 402-406.	0.9	11
22	Fabrication of silver nanoparticles on glass substrate using low-temperature rapid thermal annealing. <i>Energy and Environment</i> , 2018, 29, 358-371.	2.7	9
23	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.	1.7	8
24	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.	1.3	6
25	Concentrated photovoltaic thermal systems using Fresnel lenses – A review. <i>Materials Today: Proceedings</i> , 2021, 44, 4256-4260.	0.9	6
26	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.	0.4	4
27	Hydrothermally synthesized zinc oxide nanoparticles for reflectance study onto Si surface. <i>Materials Today: Proceedings</i> , 2020, 32, 287-293.	0.9	4
28	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.	0.5	3
29	Performance Evaluation of Lazy and Decision Tree Classifier: A Data Mining Approach for Global Celebrity's Death Analysis. , 2018, , .		3
30	GROWTH DYNAMICS OF II-VI COMPOUND SEMICONDUCTOR QUANTUM DOTS EMBEDDED IN BOROSILICATE GLASS MATRIX. <i>International Journal of Nanoscience</i> , 2008, 07, 151-160.	0.4	2
31	Study of formation and influence of surface plasmonic silver nanoparticles in efficiency enhancement for c-Si solar cells. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
32	Performance Evaluation of Lazy and Decision Tree Classifier: A Data Mining Approach for Global Celebrity's Death Analysis. , 2018, , .		2
33	Fabrication of SiNWs/Graphene nanocomposite for IR sensing. <i>Materials Today: Proceedings</i> , 2020, 32, 397-401.	0.9	2
34	Low cost, disposable colorimetric sensor for quantitative detection of ammonia gas. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
35	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.	0.1	1
36	Enhanced working efficiency of Si solar cell by water induced nano-porous thermal cooling layer. <i>Materials Research Express</i> , 2019, 6, 095053.	0.8	1

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37	A Novel Low Cost Liquefied Petroleum Gas (LPG) Sensor Based on Activated Carbon for Room Temperature Sensing Application. <i>Sensor Letters</i> , 2014, 12, 24-30.	0.4	1
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.	0.1	1
39	A study on passivation improvement in <i>n</i> -passivated emitter rear totally diffused solar cell using rapid thermal annealing. <i>Energy and Environment</i> , 2023, 34, 1770-1786.	2.7	1
40	Self-trapping mechanism in green phosphorescent dye-doped polymer light-emitting diodes. <i>Physica Scripta</i> , 2010, 81, 065701.	1.2	0
41	Theoretical Analysis of Surface Plasmonic Ag Nanoparticles Embedded in C-, P _c -, a-Si Thin-Film Solar Cell, Using Mie Scattering. <i>Springer Proceedings in Physics</i> , 2017, , 293-300.	0.1	0
42	Textured Silicon Surface and Silicon Nanowires on Silicon Chip for Ammonia Sensing Application. <i>Springer Proceedings in Physics</i> , 2019, , 931-937.	0.1	0
43	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.	0.1	0
44	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.	0.1	0
45	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.	0.1	0
46	Clean Energy Harvester Using Rare Earth Magnet and Ferro-Fluid. <i>Springer Proceedings in Physics</i> , 2017, , 461-464.	0.1	0
47	Preparation and Optoelectronic Properties of Iridium (III) Complexes Based on 1,3,4-Oxadiazole and β -diketones. <i>Springer Proceedings in Physics</i> , 2020, , 43-51.	0.1	0
48	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.	0.1	0