

Jai Singh

List of Publications by Year in descending order

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33
papers

771
citations

567281

15
h-index

526287

27
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34
docs citations

34
times ranked

1294
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis of silver nanoparticles using <i>Carissa carandas</i> berries and its potential antibacterial activities. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 682-689.	2.4	120
2	Role of Metal Oxide Electron Transport Layer Modification on the Stability of High Performing Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2559-2566.	6.8	76
3	Synthesis, characterization and optical properties of graphene sheets-ZnO multipod nanocomposites. <i>Journal of Alloys and Compounds</i> , 2012, 526, 129-134.	5.5	55
4	Investigations on optical properties of ZnO decorated graphene oxide (ZnO@GO) and reduced graphene oxide (ZnO@r-GO). <i>Journal of Alloys and Compounds</i> , 2018, 744, 64-74.	5.5	52
5	Rational low temperature synthesis and structural investigations of ultrathin bismuth nanosheets. <i>RSC Advances</i> , 2013, 3, 2313.	3.6	46
6	In Situ Fabrication of Activated Carbon from a Bio-Waste <i>Desmostachya bipinnata</i> for the Improved Supercapacitor Performance. <i>Nanoscale Research Letters</i> , 2021, 16, 85.	5.7	45
7	Physical and electrical properties of graphene grown under different hydrogen flow in low pressure chemical vapor deposition. <i>Nanoscale Research Letters</i> , 2014, 9, 546.	5.7	39
8	Synthesis and Rational design of Europium and Lithium Doped Sodium Zinc Molybdate with Red Emission for Optical Imaging. <i>Scientific Reports</i> , 2019, 9, 2472.	3.3	39
9	Odyssey of thermoelectric materials: foundation of the complex structure. <i>Journal of Physics Communications</i> , 2018, 2, 062001.	1.2	34
10	Graphene: Synthesis, Properties and Application in Transparent Electronic Devices. <i>Reviews in Advanced Sciences and Engineering</i> , 2013, 2, 238-258.	0.6	32
11	Enhanced photoluminescence behaviour of Eu ³⁺ activated ZnMoO ₄ nanophosphors via Tb ³⁺ co-doping for light emitting diode. <i>Journal of Luminescence</i> , 2017, 188, 504-513.	3.1	29
12	Synthesis, structural, optical and Raman studies of pure and lanthanum doped ZnSe nanoparticles. <i>Materials Research Bulletin</i> , 2014, 49, 144-150.	5.2	24
13	Morphological evolution and structural characterization of bismuth telluride (Bi ₂ Te ₃) nanostructures. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 285301.	2.8	21
14	Enhanced Temperature-Sensing Behavior of Ho ³⁺ –Yb ³⁺ -Codoped CaTiO ₃ and Its Hybrid Formation with Fe ₃ O ₄ Nanoparticles for Hyperthermia. <i>ACS Omega</i> , 2019, 4, 7482-7491.	3.5	20
15	Electrochemical performance of pre-lithiated ZnMoO ₄ and r-GO@ZnMoO ₄ composite anode for lithium-ion battery application. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 112, 60-66.	5.3	18
16	A comprehensive tutorial on the pulsed laser deposition technique and developments in the fabrication of low dimensional systems and nanostructures. <i>Emergent Materials</i> , 2021, 4, 737-754.	5.7	16
17	Color tunable emission through energy transfer from Yb ³⁺ co-doped SrSnO ₃ : Ho ³⁺ perovskite nano-phosphor. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1267-1278.	3.1	15
18	PLD Deposited ZnO Films on Different Substrates and Oxygen Pressure: A Study of Surface Morphology and Optical Properties. <i>Science of Advanced Materials</i> , 2012, 4, 467-474.	0.7	14

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19	Ultra-bright emission from Sr doped TiO ₂ nanoparticles through r-GO conjugation. Royal Society Open Science, 2019, 6, 190100.	2.4	12
20	Tailoring the electrical properties of multilayer MoS ₂ transistors using ultraviolet light irradiation. RSC Advances, 2015, 5, 77014-77018.	3.6	10
21	A Rapid and Efficient Biosynthesis of Metallic Nanoparticles Using Aqueous Extract of Chia (Salvia Tj ETQq1 1 0.784314 rgBT /Overlo	3.5	10
22	Controlled synthesis of two-dimensional (2-D) ultra-thin bismuth selenide (Bi ₂ Se ₃) nanosheets by bottom-up solution-phase chemistry and its electrical transport properties for thermoelectric application. FlatChem, 2020, 21, 100165.	5.6	10
23	Electrochemical performance of Bi ₂ Te ₃ /GO composite anode for LIB application. International Journal of Applied Ceramic Technology, 2020, 17, 1422-1429.	2.1	8
24	Enhanced thermoelectric power factor in wet chemical synthesized Sb ₂ Te ₃ by the incorporation of (GO/r-GO). Physica B: Condensed Matter, 2020, 577, 411795.	2.7	6
25	Ga-Doped ZnO Coating A Suitable Tool for Tuning the Electrode Properties in the Solar Cells with CdS/ZnS Core-Shell Quantum Dots. Crystals, 2021, 11, 137.	2.2	6
26	Evolution of the structural, dielectric and electrical transport properties of Bi ₂ Te ₃ nano-sticks synthesized via polyol and solvothermal routes. Physica B: Condensed Matter, 2020, 588, 412183.	2.7	5
27	Phase transition and enhanced photoluminescence behaviour of rare earth activated ZnMoO ₄ @(GO/r-GO) nanocomposites. Materials Research Bulletin, 2022, 145, 111551.	5.2	4
28	Role of organic and inorganic cations on thermal behavior of lead iodide perovskites. AIP Conference Proceedings, 2018, , .	0.4	2
29	Structural and thermodynamic aspects of organic-inorganic mixed halide (CH ₃ NH ₃ Pb _{1-x} Br _x) perovskite. AIP Conference Proceedings, 2018, , .	0.4	1
30	Nanostructured thermoelectric materials. , 2021, , 261-311.		1
31	Exploration of structural, thermal stability and band-gap tunability of organic and inorganic mixed cation (MA) _{1-x} Cs _x PbBr ₃ perovskite harvester via ultrasonication synthesis route. Journal of Physics Condensed Matter, 2021, 33, 245705.	1.8	1
32	Study of morphological changes in scattering and optically anisotropic medium through correlation images. AIP Conference Proceedings, 2018, , .	0.4	0
33	Improved NIR emission from Tb ³⁺ , Yb ³⁺ and Nd ³⁺ co-doped La ₂ O ₃ nano-phosphor. SN Applied Sciences, 2020, 2, 1.	2.9	0