Jai Singh

List of Publications by Year
in descending order

33 papers	771 citations	567281 15 h-index	526287 27 g-index
34 all docs	34 docs citations	34 times ranked	1294 citing authors

#	Article	IF	Citations
1	Phase transition and enhanced photoluminescence behaviour of rare earth activated ZnMoO4@(GO/r/GO) nanocomposites. Materials Research Bulletin, 2022, 145, 111551.	5.2	4
2	Nanostructured thermoelectric materials. , 2021, , 261-311.		1
3	A comprehensive tutorial on the pulsed laser deposition technique and developments in the fabrication of low dimensional systems and nanostructures. Emergent Materials, 2021, 4, 737-754.	5.7	16
4	Ga-Doped ZnO Coatingâ€"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
5	In Situ Fabrication of Activated Carbon from a Bio-Waste Desmostachya bipinnata for the Improved Supercapacitor Performance. Nanoscale Research Letters, 2021, 16, 85.	5.7	45
6	Exploration of structural, thermal stability and band-gap tunability of organic and inorganic mixed cation (MA)1â^'x Cs x PbBr3 perovskite harvester via ultrasonication synthesis route. Journal of Physics Condensed Matter, 2021, 33, 245705.	1.8	1
7	Electrochemical performance of Bi₂Te₃/GO composite anode for LIB application. International Journal of Applied Ceramic Technology, 2020, 17, 1422-1429.	2.1	8
8	Enhanced thermoelectric power factor in wet chemical synthesized Sb2Te3 by the incorporation of (GO/r-GO). Physica B: Condensed Matter, 2020, 577, 411795.	2.7	6
9	Electrochemical performance of pre-lithiated ZnMoO4 and r-GO@ZnMoO4 composite anode for lithium-ion battery application. Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 60-66.	5.3	18
10	Improved NIR emission from Tb3+, Yb3+ and Nd3+ co-doped La2O3 nano-phosphor. SN Applied Sciences, 2020, 2, 1.	2.9	0
11	Evolution of the structural, dielectric and electrical transport properties of Bi2Te3 nano-sticks synthesized via polyol and solvothermal routes. Physica B: Condensed Matter, 2020, 588, 412183.	2.7	5
12	Controlled synthesis of two-dimensional (2-D) ultra-thin bismuth selenide (Bi2Se3) nanosheets by bottom-up solution-phase chemistry and its electrical transport properties for thermoelectric application. FlatChem, 2020, 21, 100165.	5.6	10
13	A Rapid and Efficient Biosynthesis of Metallic Nanoparticles Using Aqueous Extract of Chia (Salvia) Tj ETQq1 1 0.784314 rgBT /Overlo	3.5	10
14	Enhanced Temperature-Sensing Behavior of Ho³⁺â€"Yb³⁺-Codoped CaTiO₃ and Its Hybrid Formation with Fe₃O₄ Nanoparticles for Hyperthermia. ACS Omega, 2019, 4, 7482-7491.	3.5	20
15	Ultra-bright emission from Sr doped TiO 2 nanoparticles through r-GO conjugation. Royal Society Open Science, 2019, 6, 190100.	2.4	12
16	Synthesis and Rational design of Europium and Lithium Doped Sodium Zinc Molybdate with Red Emission for Optical Imaging. Scientific Reports, 2019, 9, 2472.	3.3	39
17	Role of organic and inorganic cations on thermal behavior of lead iodide perovskites. AIP Conference Proceedings, 2018, , .	0.4	2
18	Investigations on optical properties of ZnO decorated graphene oxide (ZnO@GO) and reduced graphene oxide (ZnO@r-GO). Journal of Alloys and Compounds, 2018, 744, 64-74.	5.5	52

#	Article	IF	Citations
19	Color tunable emission through energy transfer from Yb3+ co-doped SrSnO3: Ho3+ perovskite nano-phosphor. Applied Nanoscience (Switzerland), 2018, 8, 1267-1278.	3.1	15
20	Odyssey of thermoelectric materials: foundation of the complex structure. Journal of Physics Communications, 2018, 2, 062001.	1.2	34
21	Study of morphological changes in scattering and optically anisotropic medium through correlation images. AIP Conference Proceedings, 2018, , .	0.4	0
22	Biosynthesis of silver nanoparticles using Carissa carandas berries and its potential antibacterial activities. Journal of Sol-Gel Science and Technology, 2018, 86, 682-689.	2.4	120
23	Structural and thermodynamic aspects of organic-inorganic mixed halide (CH3NH3PbI3-xBrx) perovskite. AIP Conference Proceedings, 2018, , .	0.4	1
24	Enhanced photoluminescence behaviour of Eu 3+ activated ZnMoO 4 nanophosphors via Tb 3+ co-doping for light emitting diode. Journal of Luminescence, 2017, 188, 504-513.	3.1	29
25	Role of Metal Oxide Electronâ€Transport Layer Modification on the Stability of High Performing Perovskite Solar Cells. ChemSusChem, 2016, 9, 2559-2566.	6.8	76
26	Tailoring the electrical properties of multilayer MoS₂ transistors using ultraviolet light irradiation. RSC Advances, 2015, 5, 77014-77018.	3.6	10
27	Physical and electrical properties of graphene grown under different hydrogen flow in low pressure chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 546.	5.7	39
28	Synthesis, structural, optical and Raman studies of pure and lanthanum doped ZnSe nanoparticles. Materials Research Bulletin, 2014, 49, 144-150.	5.2	24
29	Morphological evolution and structural characterization of bismuth telluride (Bi₂Te₃) nanostructures. Journal Physics D: Applied Physics, 2013, 46, 285301.	2.8	21
30	Rational low temperature synthesis and structural investigations of ultrathin bismuth nanosheets. RSC Advances, 2013, 3, 2313.	3.6	46
31	Graphene: Synthesis, Properties and Application in Transparent Electronic Devices. Reviews in Advanced Sciences and Engineering, 2013, 2, 238-258.	0.6	32
32	Synthesis, characterization and optical properties of graphene sheets-ZnO multipod nanocomposites. Journal of Alloys and Compounds, 2012, 526, 129-134.	5.5	55
33	PLD Deposited ZnO Films on Different Substrates and Oxygen Pressure: A Study of Surface Morphology and Optical Properties. Science of Advanced Materials, 2012, 4, 467-474.	0.7	14