R Udayabhaskar

List of Publications by Year
in descending order

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Version: 2024-02-01

50	953	430754	477173
papers	citations	18 h-index	29 g-index

50	50	50	1296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and concentration dependent antibacterial activities of CuO nanoflakes. Materials Science and Engineering C, 2013, 33, 2020-2024.	3.8	99
2	Carbon decorated octahedral shaped Fe3O4 and Î±-Fe2O3 magnetic hybrid nanomaterials for next generation supercapacitor applications. Applied Surface Science, 2019, 485, 147-157.	3.1	80
3	Enhanced mechanical and electrical properties of novel graphene reinforced copper matrix composites. Journal of Alloys and Compounds, 2019, 777, 309-316.	2.8	68
4	Enhanced multi-phonon Raman scattering and nonlinear optical power limiting in ZnO:Au nanostructures. RSC Advances, 2015, 5, 13590-13597.	1.7	48
5	Role of electrolytes on the electrochemical characteristics of Fe3O4/MXene/RGO composites for supercapacitor applications. Electrochimica Acta, 2021, 367, 137473.	2.6	42
6	Role of Fe doping on structural and vibrational properties of ZnO nanostructures. Applied Physics A: Materials Science and Processing, 2012, 107, 411-419.	1.1	39
7	Spectroscopic and fiber optic ethanol sensing properties Gd doped ZnO nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 634-638.	2.0	38
8	Role of micro-strain and defects on band-gap, fluorescence in near white light emitting Sr doped ZnO nanorods. Journal of Applied Physics, 2014, 116, .	1.1	37
9	Studies on NiO-PVA Composite Films for Opto-Electronics and Optical Limiters. IEEE Photonics Technology Letters, 2018, 30, 1539-1542.	1.3	33
10	Optical and phonon properties of ZnO:CuO mixed nanocomposite. Journal of Applied Physics, 2014, 115, .	1.1	32
11	Effect of reduced graphene oxide on the structural, optical, adsorption and photocatalytic properties of iron oxide nanoparticles. New Journal of Chemistry, 2018, 42, 8485-8493.	1.4	32
12	Preparation, optical and non-linear optical power limiting properties of Cu, CuNi nanowires. Applied Physics Letters, 2014, 104, 013107.	1.5	30
13	Solâ€“gel prepared Cu₂O microspheres: linear and nonlinear optical properties. RSC Advances, 2014, 4, 39541.	1.7	24
14	Optical and phonon properties of Sm-doped Î±-Bi2O3 micro rods. Applied Physics A: Materials Science and Processing, 2014, 117, 1409-1414.	1.1	21
15	Spectroscopic investigation on graphene-copper nanocomposites with strong UV emission and high catalytic activity. Carbon, 2017, 124, 256-262.	5.4	21
16	Room temperature synthesis and optical studies on Ag and Au mixed nanocomposite polyvinylpyrrolidone polymer films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 99, 69-73.	2.0	20
17	Surfactant assisted control on optical, fluorescence and phonon lifetime in Î±-Bi2O3 microrods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 163, 13-19.	2.0	20
18	Optical and Nonlinear Optical Limiting Properties of AgNi Alloy Nanostructures. Plasmonics, 2016, 11, 1461-1466.	1.8	19

#	Article	IF	Citations
19	Thermal annealing induced structural and optical properties of Ca doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2013, 24, 3183-3188.	1.1	18
20	NiFe2O4 nanospheres with size-tunable magnetic and electrochemical properties for superior supercapacitor electrode performance. Electrochimica Acta, 2021, 399, 139346.	2.6	18
21	Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with coreâ€“shell and core/multi-shell architectures. Physical Chemistry Chemical Physics, 2019, 21, 11424-11434.	1.3	17
22	Microstructure and enhanced excitonâ€“phonon coupling in Fe doped ZnO nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 103, 173-178.	2.0	16
23	Nano hexagonal Co₃O₄ platelets for supercapacitor applicationsâ€”synthesis and characterization. Materials Research Express, 2019, 6, 0850b1.	0.8	15
24	Size dependent magnetic and capacitive performance of MnFe2O4 magnetic nanoparticles. Materials Letters, 2020, 276, 128240.	1.3	14
25	Optical, structural, enhanced local vibrational and fluorescence properties in K-doped ZnO nanostructures. Applied Physics A: Materials Science and Processing, 2014, 116, 395-401.	1.1	12
26	Tuning optical and three photon absorption properties in graphene oxide-polyvinyl alcohol free standing films. Applied Physics Letters, 2016, 109, 021904.	1.5	10
27	Ascendable method for the fabrication of micro-tubular solid oxide fuel cells by ram-extrusion technique. Ceramics International, 2020, 46, 2602-2611.	2.3	10
28	Enhanced fluorescence and optical power limiting in Ag-nanocomposite glasses. Chemical Physics Letters, 2014, 593, 1-6.	1.2	9
29	Effect of ultrasonic sonication time on the structural, optical and antibacterial properties of ceria nanostructures. Materials Research Express, 2019, 6, 095055.	0.8	9
30	Unraveling the synergistic influences of graphene and CuO on the structural, photon and phonon properties of graphene:CuO nanocomposites. Carbon, 2019, 152, 766-776.	5.4	9
31	Influence of RE (Pr3+, Er3+, Nd3+) doping on structural, vibrational and enhanced persistent photocatalytic properties of ZnO nanostructures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 268, 120679.	2.0	9
32	Polarization-Induced Quantum-Mechanical Charge Transfer in Perovskiteâ€“Graphene Nanocomposites with Superior Electro-optic Switching Modulation. Journal of Physical Chemistry C, 2020, 124, 26648-26658.	1.5	8
33	Enhanced dielectric properties and relaxation behavior in double perovskite-polymer-based flexible 0â€“3 nanocomposite films. Journal of Materials Science: Materials in Electronics, 2020, 31, 13477-13486.	1.1	8
34	Enhanced Fluorescence, Raman Scattering, and Higher Order Raman Modes in ZnO:Ag Nanorods. Plasmonics, 2015, 10, 893-899.	1.8	7
35	Graphene induced band gap widening and luminescence quenching in ceria:graphene nanocomposites. Journal of Alloys and Compounds, 2019, 770, 1221-1228.	2.8	7
36	Probing the Defect-Induced Magnetocaloric Effect on Ferrite/Graphene Functional Nanocomposites and their Magnetic Hyperthermia. Journal of Physical Chemistry C, 2019, 123, 25844-25855.	1.5	7

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37	Studies on the functional properties of free-standing polyvinyl alcohol/(CoFe 2 O 4 /CoFe 2) composite films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 226, 211-222.	1.7	6
38	Modulation of optical and photocatalytic properties by morphology and microstrain in hierarchical ceria nanostructures. Solar Energy Materials and Solar Cells, 2019, 195, 106-113.	3.0	6
39	Altered electrochemical properties of iron oxide nanoparticles by carbon enhance molecular biocompatibility through discrepant atomic interaction. Materials Today Bio, 2021, 12, 100131.	2.6	6
40	Optical and Saturation Behavior of Thermally Surface Plasmon-Tuned Cu Nanorod Composite Glasses. Plasmonics, 2014, 9, 553-559.	1.8	5
41	Enhanced Fluorescence and Local Vibrational Mode in Nearâ€Whiteâ€Lightâ€Emitting ZnO:Mg Nanorods System. Journal of the American Ceramic Society, 2015, 98, 1807-1811.	1.9	4
42	High catalytic activity of monometallic Ag, Cu nanostructures in the degradation of acid blue 113 dye: an electron relay effect. Materials Research Express, 2017, 4, 095002.	0.8	4
43	Influence of refluxing time and HMTA on structural and optical properties of rod, prism like ZnO nanostructures. Journal of Materials Science: Materials in Electronics, 2019, 30, 5670-5680.	1.1	4
44	A feasible strategy for tailoring stable sprayâ€coated electrolyte layer in microâ€tubular solid oxide fuel cells. International Journal of Applied Ceramic Technology, 2022, 19, 1389-1396.	1.1	4
45	ZnOâ€“Sn@Graphene nanopowders: Integrative impact of tin and graphene on the microstructure, surface morphology, and optical properties. Physica B: Condensed Matter, 2022, 628, 413621.	1.3	3
46	Magnetic and electrochemical characteristics of carbon-modified magnetic nanoparticles. , 2021, , 235-252.		2
47	Evaluation of microstructural and electrical properties of tubular Ni-Ce0.8Sm0.2O1.9 composite anode for SOFC. Materials Research Express, 2019, 6, 115536.	0.8	1
48	Magnetic Nanomaterials for Energy Storage Applications. Environmental Chemistry for A Sustainable World, 2022, , 131-150.	0.3	1
49	Nanostructured Materials for Supercapacitors. Advances in Material Research and Technology, 2022, , 1-26.	0.3	1
50	Single-line diffraction and microstructural analysis of NiOxGDC(1-x) nanocomposites. Journal of Solid State Chemistry, 2020, 288, 121400.	1.4	0