

Suresh D Kulkarni

List of Publications by Year in descending order

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66
papers

1,245
citations

411340

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h-index

445137

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all docs

66
docs citations

66
times ranked

1455
citing authors

#	ARTICLE	IF	CITATIONS
1	Dinitro Derivative of Naphthalimide as a Fluorescent Probe for Tumor Hypoxia Imaging. Polycyclic Aromatic Compounds, 2023, 43, 54-63.	1.4	1
2	Cr-doped ZnGa ₂ O ₄ : Simple synthesis of intense red-NIR emitting nanoparticles with enhanced quantum efficiency. Optical Materials, 2022, 123, 111919.	1.7	6
3	Facile fabrication of superhydrophobic gold loaded nanoporous anodic alumina as surface-enhanced Raman spectroscopy substrates. Journal of Optics (United Kingdom), 2022, 24, 044002.	1.0	1
4	Microwave-assisted synthesis of ZnGa ₂ Eu _x Tb _y O ₄ luminescent nanoparticles showing balanced white-light emission. New Journal of Chemistry, 2022, 46, 6103-6113.	1.4	1
5	Rapid annealing: minutes to enhance the green emission of the Tb ³⁺ -doped ZnGa ₂ O ₄ nanophosphor with restricted grain growth. New Journal of Chemistry, 2022, 46, 7032-7042.	1.4	3
6	A Review on Metal Ion Sensors Derived from Chalcone Precursor. Journal of Fluorescence, 2022, 32, 835-862.	1.3	13
7	Laddered type-1 heterojunction: Harvesting full-solar-spectrum in scavenger free photocatalysis. Solar Energy, 2022, 240, 57-68.	2.9	6
8	Water-based combifuge ink with unique tamper-evident features for anti-counterfeiting applications. Journal of Molecular Liquids, 2022, 361, 119695.	2.3	3
9	Selective, conformal deposition of silver on heterojunction under direct sunlight: Plasmon enhanced photocatalysis. Materials Research Bulletin, 2022, 154, 111929.	2.7	0
10	Improved nonlinear optical absorption mechanism and susceptibility ($\chi^{(3)}$) of CdS nanostructured thin films: Role of zinc doping. Materials Science in Semiconductor Processing, 2021, 121, 105400.	1.9	16
11	A Nitronaphthalimide Probe for Fluorescence Imaging of Hypoxia in Cancer Cells. Journal of Fluorescence, 2021, 31, 1665-1673.	1.3	5
12	Evaluation of spray pyrolysed In:ZnO nanostructures for CO gas sensing at low concentration. Journal of Materials Science: Materials in Electronics, 2021, 32, 22599-22616.	1.1	10
13	Role of Cu in the enhancement of NH ₃ sensing performance of spray pyrolyzed WO ₃ nanostructures. Materials Science in Semiconductor Processing, 2021, 133, 105967.	1.9	9
14	Cr ³⁺ doped Al ₂ O ₃ nanoparticles: Effect of Cr ³⁺ content in intensifying red emission. Current Applied Physics, 2021, 32, 71-77.	1.1	12
15	Water-based flexographic ink using chalcones exhibiting aggregation-induced enhanced emission for anti-counterfeit applications. Journal of Molecular Liquids, 2021, 344, 117974.	2.3	7
16	An 8 MeV Electron Beam Modified In:ZnO Thin Films for CO Gas Sensing towards Low Concentration. Nanomaterials, 2021, 11, 3151.	1.9	2
17	Plasma spectroscopy + chemometrics: An ideal approach for the spectrochemical analysis of iron phosphate glass samples. Journal of Chemometrics, 2020, 34, e3310.	0.7	2
18	Effect of Al doping on photoluminescence and laser stimulated nonlinear optical features of CdO nanostructures for optoelectronic device applications. Optics and Laser Technology, 2020, 126, 106113.	2.2	24

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19	A new microwave approach for the synthesis of green emitting Mn ²⁺ -doped ZnAl ₂ O ₄ : A detailed study on its structural and optical properties. <i>Journal of Luminescence</i> , 2020, 226, 117482.	1.5	18
20	Defect engineering, microstructural examination and improvement of ultrafast third harmonic generation in GaZnO nanostructures: a study of e-beam irradiation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4252-4265.	1.3	3
21	An investigation of third-order nonlinear optical and limiting properties of spray pyrolysis-deposited Co: CdS nanostructures for optoelectronics. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	12
22	Rapid annealing-transformed, intense-red-emitting Eu-doped ZnGa ₂ O ₄ nanoparticles with high colour purity, for very-high-resolution display applications. <i>Materials Research Bulletin</i> , 2019, 119, 110544.	2.7	22
23	Morphology, electrical and magnetic study of Γ_{\pm} -Fe ₂ O ₃ coated carbon fabric. <i>Materials Research Express</i> , 2019, 6, 116454.	0.8	1
24	Hybrid polymer composites for EMI shielding application- a review. <i>Materials Research Express</i> , 2019, 6, 082008.	0.8	69
25	Facile microwave-assisted synthesis of Cr ₂ O ₃ nanoparticles with high near-infrared reflection for roof-top cooling applications. <i>Journal of Alloys and Compounds</i> , 2019, 785, 747-753.	2.8	33
26	Optical characterizations of nanoporous anodic alumina for thickness measurements using interference oscillations. <i>Nano Structures Nano Objects</i> , 2019, 19, 100354.	1.9	8
27	Improved nonlinear absorption mechanism of tin oxide thin films: Role of strontium doping. <i>Optical Materials</i> , 2019, 94, 294-298.	1.7	21
28	Post annealing induced manipulation of phase and upconversion luminescence of Cr ³⁺ doped NaYF ₄ :Yb,Er crystals. <i>RSC Advances</i> , 2019, 9, 9364-9372.	1.7	18
29	Cr ³⁺ doped nanoporous anodic alumina: Facile microwave assisted doping to realize nanoporous ruby and phase dependent photoluminescence. <i>Ceramics International</i> , 2019, 45, 12130-12137.	2.3	16
30	Effect of Aluminium doping on photoluminescence and third-order nonlinear optical properties of nanostructured CdS thin films for photonic device applications. <i>Physica B: Condensed Matter</i> , 2019, 555, 145-151.	1.3	52
31	Effect of Zn substitution in Cr ³⁺ doped MgAl ₂ O ₄ mixed spinel nanoparticles on red/NIR emission properties. <i>Materials Research Bulletin</i> , 2019, 111, 294-300.	2.7	21
32	Dual functionalized, stable and water dispersible CdTe quantum dots: Facile, one-pot aqueous synthesis, optical tuning and energy transfer applications. <i>Materials Research Bulletin</i> , 2019, 110, 57-66.	2.7	22
33	Cr ³⁺ -doped ZnAl ₂ O ₄ : Microwave solution route for ceramic nanoparticles from metalorganic complexes in minutes. <i>Journal of the American Ceramic Society</i> , 2018, 101, 800-811.	1.9	27
34	Influence of Electrolyte Composition on the Photoluminescence and Pore Arrangement of Nanoporous Anodic Alumina. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R175-R182.	0.9	11
35	Sensitive detection of mercury using the fluorescence resonance energy transfer between CdTe/CdS quantum dots and Rhodamine 6G. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	20
36	Synthesis, characterization and investigation of ZnO @ Cu/CuO core-multishell nanoparticles for solar energy harvesting. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0

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37	Role of Ba in engineering band gap, photoluminescence and nonlinear optical properties of SnO ₂ nanostructures for photovoltaic and photocatalytic applications. Superlattices and Microstructures, 2018, 122, 156-164.	1.4	23
38	ZnGa _{2-x} Eu _x O ₄ nanoparticles: 10 minutes microwave synthesis, thermal tuning of Eu ³⁺ site distribution and photophysical properties. Journal of Alloys and Compounds, 2018, 768, 676-685.	2.8	31
39	Photoluminescence enhancement and morphological properties of nanoporous anodic alumina prepared in oxalic acid with varying time and temperature. Microporous and Mesoporous Materials, 2018, 271, 138-145.	2.2	15
40	Integrated X-Band Inductor With a Nanoferrite Film Core. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	12
41	Role of growth conditions on optical and electrical properties of fiber structured Zn _{0.90} Cd _{0.10} thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 7489-7500.	1.1	1
42	Microwave solution route to ceramic ZnAl ₂ O ₄ nanoparticles in 10 minutes: inversion and photophysical changes with thermal history. New Journal of Chemistry, 2017, 41, 5420-5428.	1.4	37
43	A hybrid LIBS-Raman system combined with chemometrics: an efficient tool for plastic identification and sorting. Analytical and Bioanalytical Chemistry, 2017, 409, 3299-3308.	1.9	55
44	Rapid annealing: A novel processing technique for Cr:ZnAl ₂ O ₄ nanoparticles. Journal of Alloys and Compounds, 2017, 728, 484-489.	2.8	27
45	Thermal effects on rapid microwave synthesized Co:ZnAl ₂ O ₄ spinel nanoparticles. Journal of Alloys and Compounds, 2017, 728, 1083-1090.	2.8	16
46	Nanocrystalline MgCr _x Al _{2-x} O ₄ : Facile synthesis and thermal dependency of photoluminescence. Materials Research Bulletin, 2017, 94, 513-519.	2.7	20
47	Facile synthesis and luminescence studies of nanocrystalline red emitting Cr:ZnAl ₂ O ₄ phosphor. Materials Research Bulletin, 2017, 86, 63-71.	2.7	55
48	Novel Magnetically Separable Fe ₃ O ₄ @ZnO Core-Shell Nanocomposite for UV and Visible Light Photocatalysis. Advanced Science Letters, 2017, 23, 1724-1729.	0.2	10
49	Diffusion-controlled growth of CuAl ₂ O ₄ nanoparticles: effect of sintering and photodegradation of methyl orange. Journal of Experimental Nanoscience, 2016, 11, 1227-1241.	1.3	21
50	Optical Interferometric Properties of Porous Anodic Alumina Nanostructures. Materials Today: Proceedings, 2016, 3, 2443-2449.	0.9	5
51	Magnetically separable core-shell ZnFe ₂ O ₄ @ZnO nanoparticles for visible light photodegradation of methyl orange. Materials Research Bulletin, 2016, 77, 70-77.	2.7	84
52	Controlled inversion and surface disorder in zinc ferrite nanocrystallites and their effects on magnetic properties. RSC Advances, 2015, 5, 10267-10274.	1.7	37
53	Optical Interferometric Properties of Iridescent Nanoporous Anodic Alumina. , 2014, 5, 988-994.		5
54	Biomedical and environmental applications of laser-induced breakdown spectroscopy. Pramana - Journal of Physics, 2014, 82, 397-401.	0.9	21

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55	Development of Novel Deposition Method for Silver Nanostructures on Flexible and Nanopatterned Surfaces. , 2014, 5, 1043-1048.		1
56	Analytical predictive capabilities of Laser Induced Breakdown Spectroscopy (LIBS) with Principal Component Analysis (PCA) for plastic classification. RSC Advances, 2013, 3, 25872.	1.7	125
57	Quantification and Morphology Studies of Nanoporous Alumina Membranes: A New Algorithm for Digital Image Processing. Microscopy and Microanalysis, 2013, 19, 1061-1072.	0.2	20
58	Rapid Synthesis of Nanocrystalline ZnGa ₂ O ₄ Phosphor at Low Temperature. Materials Research Society Symposia Proceedings, 2012, 1406, .	0.1	3
59	Energy-efficient synthesis of ferrite powders and films. Materials Research Society Symposia Proceedings, 2012, 1386, 1.	0.1	1
60	Low-Thermal-Budget Solution Processing of Thin Films of Zinc Ferrite and Other Complex Oxides. Materials Research Society Symposia Proceedings, 2012, 1400, 66.	0.1	2
61	ZnFe ₂ O ₄ : Rapid and sub-100 Å°C synthesis and anneal-tuned magnetic properties. Journal of Materials Chemistry, 2012, 22, 2149-2156.	6.7	51
62	Mechanistic Study on the Oxidation of Sulfacetamide by Aqueous Alkaline Diperioatoargentate(III). Industrial & Engineering Chemistry Research, 2009, 48, 591-597.	1.8	1
63	Kinetics and mechanism of L-isoleucine oxidation by alkaline diperioatoargentate(III). Transition Metal Chemistry, 2008, 33, 23-28.	0.7	5
64	Oxidative transformation of ciprofloxacin by alkaline permanganate â€“ A kinetic and mechanistic study. Polyhedron, 2007, 26, 4877-4885.	1.0	37
65	Oxidation of Leucine by Alkaline Diperioatoargentate(III) Deamination and Decarboxylation: A Kinetic and Mechanistic Study. Industrial & Engineering Chemistry Research, 2006, 45, 8029-8035.	1.8	9
66	A kinetic and mechanistic study on oxidation of Isoniazid drug by alkaline diperioatocuprate(III) â€“ A free radical intervention. Transition Metal Chemistry, 2006, 31, 1034-1039.	0.7	20