Ramachandra Naik

List of Publications by Year
in descending order

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46	1,091	331642	395678
papers	citations	21 h-index	33 g-index

47	47	47	675
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low temperature synthesis and photoluminescence properties of red emitting Mg2SiO4:Eu3+ nanophosphor for near UV light emitting diodes. Sensors and Actuators B: Chemical, 2014, 195, 140-149.	7.8	106
2	Mg 2 SiO 4 :Tb 3+ nanophosphor: Auto ignition route and near UV excited photoluminescence properties for WLEDs. Journal of Alloys and Compounds, 2014, 617, 69-75.	5.5	74
3	A benign approach for tailoring the photometric properties and Judd-Ofelt analysis of LaAlO3:Sm3+ nanophosphors for thermal sensor and WLED applications. Sensors and Actuators B: Chemical, 2017, 243, 1057-1066.	7.8	72
4	Photoluminescence and Juddâ€“Ofelt analysis of Eu 3+ doped LaAlO 3 nanophosphors for WLEDs. Dyes and Pigments, 2015, 122, 22-30.	3.7	61
5	Tunable white light emissive Mg2SiO4:Dy3+ nanophosphor: Its photoluminescence, Juddâ€“Ofelt and photocatalytic studies. Dyes and Pigments, 2016, 127, 25-36.	3.7	56
6	Zn2TiO4:Eu3+ nanophosphor: Self explosive route and its near UV excited photoluminescence properties for WLEDs. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 857-865.	3.9	47
7	A single phase, red emissive Mg2SiO4:Sm3+ nanophosphor prepared via rapid propellant combustion route. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 140, 516-523.	3.9	40
8	White light emission and energy transfer (Dy3+â†' Eu3+) in combustion synthesized YSO: Dy3+, Eu3+ nanophosphors. Optik, 2016, 127, 2939-2945.	2.9	40
9	Facile combustion synthesized orthorhombic GdAlO3:Eu3+ nanophosphors: Structural and photoluminescence properties for WLEDs. Journal of Luminescence, 2015, 163, 47-54.	3.1	39
10	New design of highly sensitive and selective MoO3:Eu3+ micro-rods: Probing of latent fingerprints visualization and anti-counterfeiting applications. Journal of Colloid and Interface Science, 2018, 528, 443-456.	9.4	38
11	Effect of Li+ codoping on structural and luminescent properties of Mg2SiO4:RE3+ (REÂ=ÂEu, Tb) nanophosphors for displays and eccrine latent fingerprint detection. Optical Materials, 2017, 72, 295-304.	3.6	37
12	Effect of fuel on auto ignition route, photoluminescence and photometric studies of tunable red emitting Mg2SiO4:Cr3+ nanophosphors for solid state lighting applications. Journal of Alloys and Compounds, 2016, 682, 815-824.	5.5	35
13	Green synthesis, structural characterization and photoluminescence properties of Sm3+ co-doped Y2SiO5:Ce3+ nanophosphors for wLEDs. Optik, 2016, 127, 5310-5315.	2.9	34
14	Structural refinement, band-gap analysis and optical properties of GdAlO₃nanophosphors influenced by Dy³⁺ion concentrations for white light emitting device applications. Materials Research Express, 2016, 3, 045007.	1.6	32
15	Zn2TiO4: A novel host lattice for Sm3+ doped reddish orange light emitting photoluminescent material for thermal and fingerprint sensor. Optical Materials, 2017, 73, 197-205.	3.6	32
16	Electrochemical, photoluminescence and EPR studies of Fe3+ doped nano Forsterite: Effect of doping on tetra and octahedral sites. Journal of Luminescence, 2018, 197, 233-241.	3.1	30
17	Enhancement of luminescence intensity and spectroscopic analysis ofÂEu3+ activated and Li+ charge-compensated Bi2O3 nanophosphors for solid-state lighting. Journal of Rare Earths, 2019, 37, 356-364.	4.8	26
18	Visible photon excited photoluminescence; photometric characteristics of a green light emitting Zn₂TiO₄:Tb³⁺nanophosphor for wLEDs. Materials Research Express, 2016, 3, 075015.	1.6	25

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19	White light emitting lanthanum aluminate nanophosphor: Near ultra violet excited photoluminescence and photometric characteristics. Journal of Luminescence, 2017, 190, 279-288.	3.1	24
20	Enhanced photoluminescence of SiO2 coated CaTiO3:Dy3+,Li+ nanophosphors for white light emitting diodes. Ceramics International, 2021, 47, 10346-10354.	4.8	23
21	Photoluminescence of a novel green emitting Bi2O3:Tb3+nanophosphors for display, thermal sensor and visualisation of latent fingerprints. Optik, 2019, 192, 162956.	2.9	22
22	Photoluminescent and thermoluminescent properties of low temperature synthesized Nd3+ doped Mg2SiO4 nanophosphors for display and dosimetry applications. Optik, 2019, 180, 8-19.	2.9	21
23	Multi-functional Zn 2 TiO 4 :Sm 3+ nanopowders: Excellent performance as an electrochemical sensor and an UV photocatalyst. Journal of Science: Advanced Materials and Devices, 2018, 3, 151-160.	3.1	20
24	Impacts of core shell structure on structural and photoluminescence properties of CaTiO₃:Sm³⁺, Li⁺ nanoparticles for solid state display applications. Materials Research Express, 2019, 6, 085037.	1.6	20
25	Comparative analysis of electrochemical performance and photocatalysis of SiO2 coated CaTiO3:RE3+ (Dy, Sm), Li+ core shell nano structures. Inorganic Chemistry Communication, 2021, 134, 108960.	3.9	20
26	Synthesis, Diffuse reflectance, Electrical and Photoluminesence properties of nanocrystalline Eu3+doped GdAlO3 via Combustion method. Materials Today: Proceedings, 2017, 4, 11706-11712.	1.8	18
27	Lysine assisted hydrothermal synthesis and formation process of MoO3:Sm3+ phosphors with hierarchical structures and its electron trapping luminescence properties. Journal of Alloys and Compounds, 2018, 768, 451-463.	5.5	17
28	Spectroscopic and photoluminescence properties of MgO:Cr 3+ nanosheets for WLEDs. Displays, 2016, 41, 16-24.	3.7	12
29	Calcination temperature dependent structural modifications, tailored morphology and luminescence properties of MoO3 nanostructures prepared by sonochemical method. Journal of Science: Advanced Materials and Devices, 2018, 3, 77-85.	3.1	12
30	Bi2O3:Dy3+ nanophosphors: its white light emission and photocatalytic activity. SN Applied Sciences, 2019, 1, 1.	2.9	10
31	Effect of Bi3+ and Li+ co-doping on the luminescence properties of Zn2TiO4:Eu3+ nanophosphor for display applications. SN Applied Sciences, 2019, 1, 1.	2.9	9
32	Photoluminescence and photocatalytic properties of novel Bi2O3:Sm3+ nanophosphor. Journal of Science: Advanced Materials and Devices, 2019, 4, 531-537.	3.1	9
33	Photoluminescence and electrochemical performances of Eu3+doped La10Si6O27 nanophosphor: Display and electrochemical sensor applications. Applied Surface Science Advances, 2020, 1, 100026.	6.8	7
34	Photoluminescence features of green-emitting sol-gel synthesized La2W3O12 doped with Tb3+ phosphor for PDP applications. Optik, 2021, 226, 165920.	2.9	7
35	Green Light Emitting Tb3+ Doped Phosphors - A Review. Material Science Research India, 2018, 15, 252-255.	0.7	4
36	Low temperatureâ€synthesized MgAl₂O₄:Eu³⁺ nanophosphors and their structural validations using density functional theory: photoluminescence, photocatalytic, and electrochemical properties for multifunctional applications. Luminescence, 2023, 38, 1149-1166.	2.9	4

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37	Cicer arietinum fuel-blended facile synthesis, and structural, photometric, and antioxidant investigation of ZnO:Cr³⁺ nanophosphors for light-emitting display devices. Inorganic and Nano-Metal Chemistry, 2017, 47, 1701-1710.	1.6	2
38	Photoluminescence properties of CaTiO3:Ho3+ nanophosphors for light emitting display applications. Materials Today: Proceedings, 2021, 46, 5953-5957.	1.8	2
39	Study of Cobalt Doped GdAlO3 for Electrochemical Application. Current Analytical Chemistry, 2021, 17, 662-667.	1.2	2
40	Calotropis gigantean-assisted YSO:Pr3+ nanophosphors: Near-ultraviolet (NUV) photoluminescence and J-O analysis for solid-state lighting solutions. Inorganic and Nano-Metal Chemistry, 2017, 47, 1234-1242.	1.6	1
41	Diffuse reflectance properties and bandgap analysis of Mg2SiO4:RE3+ (RE= Eu, Tb, Sm, Dy) nanophosphors for light emitting device application. AIP Conference Proceedings, 2017, , .	0.4	1
42	Judd Ofelt analysis and energy transfer mechanism in Pr3+ doped Mg2SiO4 nanophosphors. AIP Conference Proceedings, 2016, , .	0.4	0
43	Energy-Saving Synthesis of Mg2SiO4:RE3+ Nanophosphors for Solid-State Lighting Applications. Environmental Chemistry for A Sustainable World, 2019, , 121-143.	0.5	0
44	Synthesis of Magnesium Based Nanophosphors and Nanocomposites by Different Techniques. , 2021, , 261-287.		0
45	Cyclic voltammetry and electrochemical impedance spectroscopy analysis of Cr3+ doped Mg2SiO4 nanoparticles. Material Science Research India, 2020, 17, 207-213.	0.7	0
46	Synthesis of Magnesium Based Nanophosphors and Nanocomposites by Different Techniques. Advances in Chemical and Materials Engineering Book Series, 0, , 251-276.	0.3	0