

# Prashantha S C

## List of Publications by Year in descending order

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142  
papers

4,767  
citations

66343

42  
h-index

118850

62  
g-index

143  
all docs

143  
docs citations

143  
times ranked

3195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile green fabrication of nanostructure ZnO plates, bullets, flower, prismatic tip, closed pine cone: Their antibacterial, antioxidant, photoluminescent and photocatalytic properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 404-416.	3.9	182
2	Combustion synthesized tetragonal ZrO <sub>2</sub> : Eu <sup>3+</sup> nanophosphors: Structural and photoluminescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 241-251.	3.9	124
3	Photoluminescence and thermoluminescence studies of Mg <sub>2</sub> SiO <sub>4</sub> :Eu <sup>3+</sup> nano phosphor. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10185-10189.	5.5	115
4	Low temperature synthesis and photoluminescence properties of red emitting Mg <sub>2</sub> SiO <sub>4</sub> :Eu <sup>3+</sup> nanophosphor for near UV light emitting diodes. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 140-149.	7.8	106
5	Leucas aspera mediated multifunctional CeO <sub>2</sub> nanoparticles: Structural, photoluminescent, photocatalytic and antibacterial properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 452-462.	3.9	104
6	New green synthesized reduced graphene oxide@ZrO <sub>2</sub> composite as high performance photocatalyst under sunlight. <i>RSC Advances</i> , 2017, 7, 12690-12703.	3.6	103
7	Hollow microspheres Mg-doped ZrO <sub>2</sub> nanoparticles: Green assisted synthesis and applications in photocatalysis and photoluminescence. <i>Journal of Alloys and Compounds</i> , 2016, 672, 609-622.	5.5	101
8	Superstructures of doped yttrium aluminates for luminescent and advanced forensic investigations. <i>Journal of Alloys and Compounds</i> , 2016, 686, 577-587.	5.5	95
9	Synthesis, structural and luminescence studies of magnesium oxide nanopowder. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 847-851.	3.9	94
10	Blue light emitting ceramic nano-pigments of Tm <sup>3+</sup> doped YAlO <sub>3</sub> : Applications in latent finger print, anti-counterfeiting and porcelain stoneware. <i>Dyes and Pigments</i> , 2016, 131, 268-281.	3.7	93
11	A simple combustion method for the synthesis of multi-functional ZrO <sub>2</sub> /CuO nanocomposites: Excellent performance as Sunlight photocatalysts and enhanced latent fingerprint detection. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 97-115.	20.2	89
12	Phase transformation of ZrO <sub>2</sub> :Tb <sup>3+</sup> nanophosphor: Color tunable photoluminescence and photocatalytic activities. <i>Journal of Alloys and Compounds</i> , 2015, 622, 86-96.	5.5	87
13	A single host white light emitting Zn <sub>2</sub> SiO <sub>4</sub> :Re <sup>3+</sup> (Eu, Dy, Sm) phosphor for LED applications. <i>Optik</i> , 2015, 126, 1745-1756.	2.9	86
14	Facile green fabrication of iron-doped cubic ZrO <sub>2</sub> nanoparticles by <i>Phyllanthus acidus</i> : Structural, photocatalytic and photoluminescent properties. <i>Journal of Molecular Catalysis A</i> , 2015, 397, 36-47.	4.8	81
15	Effect of zinc substitution on the nanocobalt ferrite powders for nanoelectronic devices. <i>Journal of Alloys and Compounds</i> , 2014, 587, 50-58.	5.5	77
16	White light emitting magnesium aluminate nanophosphor: Near ultra violet excited photoluminescence, photometric characteristics and its UV photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2017, 728, 1124-1138.	5.5	77
17	Mg <sub>2</sub> SiO <sub>4</sub> :Tb <sup>3+</sup> nanophosphor: Auto ignition route and near UV excited photoluminescence properties for WLEDs. <i>Journal of Alloys and Compounds</i> , 2014, 617, 69-75.	5.5	74
18	Influence of zinc additive and pH on the electrochemical activities of Ni <sup>2+</sup> -nickel hydroxide materials and its applications in secondary batteries. <i>Journal of Energy Storage</i> , 2017, 9, 12-24.	8.1	72

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19	A benign approach for tailoring the photometric properties and Judd-Ofelt analysis of LaAlO <sub>3</sub> :Sm <sup>3+</sup> nanophosphors for thermal sensor and WLED applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1057-1066.	7.8	72
20	Bio-inspired synthesis of Y <sub>2</sub> O <sub>3</sub> : Eu <sup>3+</sup> red nanophosphor for eco-friendly photocatalysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 141, 149-160.	3.9	71
21	CuO embedded $\beta$ -Ni(OH) <sub>2</sub> nanocomposite as advanced electrode materials for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 736, 332-339.	5.5	70
22	CaTiO <sub>3</sub> :Eu <sup>3+</sup> red nanophosphor: Low temperature synthesis and photoluminescence properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 120, 395-400.	3.9	69
23	Sonochemical synthesis of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles: Characterization and their photocatalytic and electrochemical applications. <i>Applied Surface Science Advances</i> , 2020, 1, 100023.	6.8	69
24	Neodymium doped yttrium aluminate synthesis and optical properties – A blue light emitting nanophosphor and its use in advanced forensic analysis. <i>Dyes and Pigments</i> , 2016, 134, 227-233.	3.7	65
25	MgO:Eu <sup>3+</sup> red nanophosphor: Low temperature synthesis and photoluminescence properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 46-52.	3.9	63
26	Photoluminescence and Judd-Ofelt analysis of Eu <sup>3+</sup> doped LaAlO <sub>3</sub> nanophosphors for WLEDs. <i>Dyes and Pigments</i> , 2015, 122, 22-30.	3.7	61
27	Synthesis and luminescence properties of Sm <sup>3+</sup> doped CaTiO <sub>3</sub> nanophosphor for application in white LED under NUV excitation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 891-901.	3.9	59
28	A comparative study on the structural, optical, electrochemical and photocatalytic properties of ZrO <sub>2</sub> nanooxide synthesized by different routes. <i>Journal of Alloys and Compounds</i> , 2017, 695, 382-395.	5.5	59
29	MgO:Dy <sup>3+</sup> nanophosphor: Self ignition route, characterization and its photoluminescence properties. <i>Materials Characterization</i> , 2014, 97, 27-36.	4.4	58
30	Eco-friendly green synthesis, structural and photoluminescent studies of CeO <sub>2</sub> :Eu <sup>3+</sup> nanophosphors using <i>E. tirucalli</i> plant latex. <i>Journal of Alloys and Compounds</i> , 2014, 612, 425-434.	5.5	56
31	Tunable white light emissive Mg <sub>2</sub> SiO <sub>4</sub> :Dy <sup>3+</sup> nanophosphor: Its photoluminescence, Judd-Ofelt and photocatalytic studies. <i>Dyes and Pigments</i> , 2016, 127, 25-36.	3.7	56
32	Bio-mediated route for the synthesis of shape tunable Y <sub>2</sub> O <sub>3</sub> : Tb <sup>3+</sup> nanoparticles: Photoluminescence and antibacterial properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 131-140.	3.9	53
33	Bio-mediated Sm doped nano cubic zirconia: Photoluminescent, Judd-Ofelt analysis, electrochemical impedance spectroscopy and photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 685, 761-773.	5.5	53
34	100MeV Si <sup>8+</sup> ion induced luminescence and thermoluminescence of nanocrystalline Mg <sub>2</sub> SiO <sub>4</sub> :Eu <sup>3+</sup> . <i>Journal of Luminescence</i> , 2012, 132, 3093-3097.	3.1	52
35	Bio-inspired route for the synthesis of spherical shaped MgO:Fe <sup>3+</sup> nanoparticles: Structural, photoluminescence and photocatalytic investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 703-713.	3.9	52
36	Green engineered nano MgO and ZnO doped with Sm <sup>3+</sup> : Synthesis and a comparison study on their characterization, PC activity and electrochemical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 127, 127-139.	4.0	50

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37	Effect of different fuels on structural, photo and thermo luminescence properties of solution combustion prepared Y <sub>2</sub> SiO <sub>5</sub> nanopowders. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 127, 177-184.	3.9	49
38	Green and chemical-engineered CuFe <sub>2</sub> O <sub>4</sub> : characterization, cyclic voltammetry, photocatalytic and photoluminescent investigation for multifunctional applications. <i>Journal of Nanostructure in Chemistry</i> , 2018, 8, 45-59.	9.1	48
39	Role of Cu <sup>2+</sup> ions substitution in magnetic and conductivity behavior of nano-CoFe <sub>2</sub> O <sub>4</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 256-262.	3.9	47
40	Green synthesis of Y <sub>2</sub> O <sub>3</sub> :Dy <sup>3+</sup> nanophosphor with enhanced photocatalytic activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 687-697.	3.9	47
41	Zn <sub>2</sub> TiO <sub>4</sub> :Eu <sup>3+</sup> nanophosphor: Self explosive route and its near UV excited photoluminescence properties for WLEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 857-865.	3.9	47
42	Structural, photo and thermoluminescence studies of Eu <sup>3+</sup> doped orthorhombic YAlO <sub>3</sub> nanophosphors. <i>Journal of Alloys and Compounds</i> , 2014, 601, 75-84.	5.5	45
43	Evaluation of bifunctional applications of CuFe <sub>2</sub> O <sub>4</sub> nanoparticles synthesized by a sonochemical method. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109756.	4.0	44
44	Synthesis of Eu <sup>3+</sup> -activated ZnO superstructures: Photoluminescence, Judd–Ofelt analysis and Sunlight photocatalytic properties. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 26-41.	4.8	42
45	Caralluma fimbriata extract induced green synthesis, structural, optical and photocatalytic properties of ZnO nanostructure modified with Gd. <i>Journal of Alloys and Compounds</i> , 2016, 685, 656-669.	5.5	41
46	A single phase, red emissive Mg <sub>2</sub> SiO <sub>4</sub> :Sm <sup>3+</sup> nanophosphor prepared via rapid propellant combustion route. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 516-523.	3.9	40
47	White light emission and energy transfer (Dy <sup>3+</sup> → Eu <sup>3+</sup> ) in combustion synthesized YSO: Dy <sup>3+</sup> , Eu <sup>3+</sup> nanophosphors. <i>Optik</i> , 2016, 127, 2939-2945.	2.9	40
48	Spectroscopic properties of red emitting Eu <sup>3+</sup> doped Y <sub>2</sub> SiO <sub>5</sub> nanophosphors for WLEDs on the basis of Judd–Ofelt analysis: Calotropis gigantea latex mediated synthesis. <i>Journal of Luminescence</i> , 2017, 181, 153-163.	3.1	40
49	Facile combustion synthesized orthorhombic GdAlO <sub>3</sub> :Eu <sup>3+</sup> nanophosphors: Structural and photoluminescence properties for WLEDs. <i>Journal of Luminescence</i> , 2015, 163, 47-54.	3.1	39
50	Role of flux on morphology and luminescence properties of Sm <sup>3+</sup> doped Y <sub>2</sub> SiO <sub>5</sub> nanopowders for WLEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 356-365.	3.9	38
51	Luminescence properties of MgO: Fe <sup>3+</sup> nanopowders for WLEDs under NUV excitation prepared via propellant combustion route. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 362-373.	1.2	37
52	Effect of Li <sup>+</sup> codoping on structural and luminescent properties of Mg <sub>2</sub> SiO <sub>4</sub> :RE <sup>3+</sup> (RE = Eu, Tb) nanophosphors for displays and eccrine latent fingerprint detection. <i>Optical Materials</i> , 2017, 72, 295-304.	3.6	37
53	Optical and Electrochemical Applications of Li-Doped NiO Nanostructures Synthesized via Facile Microwave Technique. <i>Materials</i> , 2020, 13, 2961.	2.9	36
54	Effect of fuel on auto ignition route, photoluminescence and photometric studies of tunable red emitting Mg <sub>2</sub> SiO <sub>4</sub> :Cr <sup>3+</sup> nanophosphors for solid state lighting applications. <i>Journal of Alloys and Compounds</i> , 2016, 682, 815-824.	5.5	35

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55	GdAlO <sub>3</sub> :Eu <sup>3+</sup> :Bi <sup>3+</sup> nanophosphor: Synthesis and enhancement of red emission for WLEDs. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 550-558.	3.9	34
56	Green synthesis, structural characterization and photoluminescence properties of Sm <sup>3+</sup> co-doped Y <sub>2</sub> SiO <sub>5</sub> :Ce <sup>3+</sup> nanophosphors for wLEDs. Optik, 2016, 127, 5310-5315.	2.9	34
57	Ionoluminescence studies of combustion synthesized Dy <sup>3+</sup> doped nano crystalline forsterite. Current Applied Physics, 2011, 11, 1274-1277.	2.4	33
58	Structural refinement, band-gap analysis and optical properties of GdAlO <sub>3</sub> nanophosphors influenced by Dy <sup>3+</sup> ion concentrations for white light emitting device applications. Materials Research Express, 2016, 3, 045007.	1.6	32
59	Zn <sub>2</sub> TiO <sub>4</sub> : A novel host lattice for Sm <sup>3+</sup> doped reddish orange light emitting photoluminescent material for thermal and fingerprint sensor. Optical Materials, 2017, 73, 197-205.	3.6	32
60	Green engineered ZnO nanopowders by <i>Banyan Tree</i> and <i>E. tirucalli</i> plant latex: auto ignition route, photoluminescent and photocatalytic properties. Materials Research Express, 2015, 2, 035011.	1.6	30
61	Synthesis and characterization of $\gamma$ -Ni(OH) <sub>2</sub> embedded with MgO and ZnO nanoparticles as nanohybrids for energy storage devices. Materials Research Express, 2017, 4, 065503.	1.6	30
62	Designing MgFe <sub>2</sub> O <sub>4</sub> decorated on green mediated reduced graphene oxide sheets showing photocatalytic performance and luminescence property. Physica B: Condensed Matter, 2017, 507, 67-75.	2.7	30
63	Electrochemical, photoluminescence and EPR studies of Fe <sup>3+</sup> doped nano Forsterite: Effect of doping on tetra and octahedral sites. Journal of Luminescence, 2018, 197, 233-241.	3.1	30
64	Orange red emitting Eu <sup>3+</sup> doped zinc oxide nanophosphor material prepared using Guizotia abyssinica seed extract: Structural and photoluminescence studies. Journal of Luminescence, 2015, 167, 91-100.	3.1	29
65	Electrochemical sensor studies and optical analysis of developed clay based CoFe <sub>2</sub> O <sub>4</sub> ferrite NPs. Sensors International, 2021, 2, 100083.	8.4	28
66	Electrochemical Studies of Nano Metal Oxide Reinforced Nickel Hydroxide Materials for Energy Storage Applications. Materials Today: Proceedings, 2017, 4, 12205-12214.	1.8	26
67	Enhancement of luminescence intensity and spectroscopic analysis of $\text{Eu}^{3+}$ activated and Li <sup>+</sup> charge-compensated Bi <sub>2</sub> O <sub>3</sub> nanophosphors for solid-state lighting. Journal of Rare Earths, 2019, 37, 356-364.	4.8	26
68	Visible photon excited photoluminescence; photometric characteristics of a green light emitting Zn <sub>2</sub> TiO <sub>4</sub> :Tb <sup>3+</sup> nanophosphor for wLEDs. Materials Research Express, 2016, 3, 075015.	1.6	25
69	CdSiO <sub>3</sub> :Eu <sup>3+</sup> red nanophosphors prepared by low temperature solution combustion technique, its structural and luminescent properties. Journal of Alloys and Compounds, 2014, 616, 284-292.	5.5	24
70	White light emitting lanthanum aluminate nanophosphor: Near ultra violet excited photoluminescence and photometric characteristics. Journal of Luminescence, 2017, 190, 279-288.	3.1	24
71	Sunlight photocatalytic performance of Mg-doped nickel ferrite synthesized by a green sol-gel route. Journal of Science: Advanced Materials and Devices, 2019, 4, 89-100.	3.1	24
72	Enhanced photoluminescence of SiO <sub>2</sub> coated CaTiO <sub>3</sub> :Dy <sup>3+</sup> ,Li <sup>+</sup> nanophosphors for white light emitting diodes. Ceramics International, 2021, 47, 10346-10354.	4.8	23

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73	Optical, Electrochemical and Photocatalytic Properties of Sunlight Driven Cu Doped Manganese Ferrite Synthesized By Solution Combustion Synthesis. <i>Materials Today: Proceedings</i> , 2017, 4, 11773-11781.	1.8	22
74	Photoluminescence of a novel green emitting Bi <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> +nanophosphors for display, thermal sensor and visualisation of latent fingerprints. <i>Optik</i> , 2019, 192, 162956.	2.9	22
75	Luminescent and thermal properties of novel orange-red emitting MgNb <sub>2</sub> O <sub>6</sub> :Sm <sup>3+</sup> phosphors for displays, photo catalytic and sensor applications. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	22
76	Facile combustion based engineering of novel white light emitting Zn <sub>2</sub> TiO <sub>4</sub> :Dy <sup>3+</sup> nanophosphors for display and forensic applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 360-370.	3.1	21
77	Rational design of bi-functional RE <sup>3+</sup> (RE = Tb, Ce) and alkali metals (M <sup>+</sup> = Li, Na, K) co-doped CaAl <sub>2</sub> O <sub>4</sub> nanophosphors for solid state lighting and advanced forensic applications. <i>Materials Research Bulletin</i> , 2019, 115, 88-97.	5.2	21
78	Photoluminescent and thermoluminescent properties of low temperature synthesized Nd <sup>3+</sup> doped Mg <sub>2</sub> SiO <sub>4</sub> nanophosphors for display and dosimetry applications. <i>Optik</i> , 2019, 180, 8-19.	2.9	21
79	Spectroscopic and luminescence studies of Cr <sup>3+</sup> doped cadmium silicate nano-phosphor. <i>Journal of Luminescence</i> , 2015, 161, 247-256.	3.1	20
80	Luminescent properties of Tb doped gadolinium aluminate nanophosphors for display and forensic applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 437-444.	3.1	20
81	Multi-functional Zn <sub>2</sub> TiO <sub>4</sub> :Sm <sup>3+</sup> nanopowders: Excellent performance as an electrochemical sensor and an UV photocatalyst. <i>Journal of Science: Advanced Materials and Devices</i> , 2018, 3, 151-160.	3.1	20
82	Impacts of core shell structure on structural and photoluminescence properties of CaTiO <sub>3</sub> :Sm <sup>3+</sup> , Li <sup>+</sup> nanoparticles for solid state display applications. <i>Materials Research Express</i> , 2019, 6, 085037.	1.6	20
83	Comparative analysis of electrochemical performance and photocatalysis of SiO <sub>2</sub> coated CaTiO <sub>3</sub> :RE <sup>3+</sup> (Dy, Sm), Li <sup>+</sup> core shell nano structures. <i>Inorganic Chemistry Communication</i> , 2021, 134, 108960.	3.9	20
84	Shape tailored green synthesis of CeO <sub>2</sub> :Ho <sup>3+</sup> nanopowders, its structural, photoluminescence and gamma radiation sensing properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 63-75.	3.9	19
85	Synthesis, Diffuse reflectance, Electrical and Photoluminescence properties of nanocrystalline Eu <sup>3+</sup> -doped GdAlO <sub>3</sub> via Combustion method. <i>Materials Today: Proceedings</i> , 2017, 4, 11706-11712.	1.8	18
86	Chromium (III) doped polycrystalline MgAl <sub>2</sub> O <sub>4</sub> nanoparticles for photocatalytic and supercapacitor applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 161, 110491.	4.0	18
87	Banyan latex: a facile fuel for the multifunctional properties of MgO nanoparticles prepared via auto ignited combustion route. <i>Materials Research Express</i> , 2015, 2, 095004.	1.6	17
88	Ionoluminescence and photoluminescence studies of Ag <sup>8+</sup> ion irradiated kyanite. <i>Journal of Luminescence</i> , 2008, 128, 7-10.	3.1	16
89	Photocatalytic study for fabricated Ag doped and undoped MgFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Materials Today: Proceedings</i> , 2017, 4, 11764-11772.	1.8	15
90	MgNb <sub>2</sub> O <sub>6</sub> :Dy <sup>3+</sup> nanophosphor: A facile preparation, down conversion photoluminescence and UV driven photocatalytic properties. <i>Ceramics International</i> , 2021, 47, 10370-10380.	4.8	15

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91	Green emitting SrAl <sub>2</sub> O <sub>4</sub> :Tb <sup>3+</sup> nano-powders for forensic, anti-counterfeiting and optoelectronic devices. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108665.	3.9	15
92	Photocatalytic and Photoluminescence studies of ZrO <sub>2</sub> /ZnO nanocomposite for LED and Waste water treatment applications. <i>Materials Today: Proceedings</i> , 2017, 4, 11747-11755.	1.8	14
93	Damage creation in swift heavy ion-irradiated calcite single crystals: Raman and Infrared study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 1070-1073.	3.9	13
94	Ion beam-induced luminescence and photoluminescence of 100 MeV Si <sup>8+</sup> ion irradiated kyanite single crystals. <i>Solid State Communications</i> , 2008, 147, 377-380.	1.9	12
95	Calotropis mediated hydrothermal route for the synthesis of Eu <sup>3+</sup> activated La(OH) <sub>3</sub> and La <sub>2</sub> O <sub>3</sub> red phosphors. <i>Materials Research Express</i> , 2015, 2, 045402.	1.6	12
96	Spectroscopic and photoluminescence properties of MgO:Cr <sup>3+</sup> nanosheets for WLEDs. <i>Displays</i> , 2016, 41, 16-24.	3.7	12
97	Synthesis of Sunlight Driven ZnO/CuO Nanocomposite: Characterization, Optical, Electrochemical and Photocatalytic Studies. <i>Materials Today: Proceedings</i> , 2017, 4, 11782-11790.	1.8	12
98	Calcination temperature dependent structural modifications, tailored morphology and luminescence properties of MoO <sub>3</sub> nanostructures prepared by sonochemical method. <i>Journal of Science: Advanced Materials and Devices</i> , 2018, 3, 77-85.	3.1	12
99	Resource Recovery and Material Characterization of Metals from Waste Li-ion Batteries by an Eco-Friendly Leaching Agent. <i>Materials Today: Proceedings</i> , 2017, 4, 12215-12222.	1.8	11
100	Dysprosium doped strontium aluminate dusting powder: Sweat pores visualization and white LED component. <i>Inorganic Chemistry Communication</i> , 2021, 134, 109028.	3.9	11
101	Synthesis and Photoluminescence Studies of an Orange Red Color Emitting novel CaAl <sub>2</sub> O <sub>4</sub> :Sm <sup>3+</sup> nanophosphor for LED Applications. <i>Materials Today: Proceedings</i> , 2017, 4, 11820-11826.	1.8	10
102	Bi <sub>2</sub> O <sub>3</sub> :Dy <sup>3+</sup> nanophosphors: its white light emission and photocatalytic activity. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	10
103	A benign approach for novel synthesis of Eu <sup>3+</sup> doped MgNb <sub>2</sub> O <sub>6</sub> : Its photoluminescence and photocatalytic studies. <i>Ceramics International</i> , 2021, 47, 14899-14906.	4.8	10
104	Cadmium silicate nanopowders for radiation dosimetry application: Luminescence and dielectric studies. <i>Journal of Asian Ceramic Societies</i> , 2015, 3, 188-197.	2.3	9
105	Effect of Bi <sup>3+</sup> and Li <sup>+</sup> co-doping on the luminescence properties of Zn <sub>2</sub> TiO <sub>4</sub> :Eu <sup>3+</sup> nanophosphor for display applications. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	9
106	Photoluminescence and photocatalytic properties of novel Bi <sub>2</sub> O <sub>3</sub> :Sm <sup>3+</sup> nanophosphor. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 531-537.	3.1	9
107	Structural and optical properties of MgNb <sub>2</sub> O <sub>6</sub> NPs: Its potential application in photocatalytic and pharmaceutical industries as sensor. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100581.	2.9	9
108	Photoluminescence and photometric studies of low temperature prepared red emitting MgAl <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> nanophosphors for solid state displays. <i>Journal of Science: Advanced Materials and Devices</i> , 2018, 3, 464-470.	3.1	8

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109	Photoluminescence, photocatalytic and electrochemical performance of La <sub>10</sub> Si <sub>6</sub> O <sub>27</sub> :Sm <sup>3+</sup> nanophosphor: It's applications in display, photocatalytic and electrochemical sensor. Applied Surface Science Advances, 2021, 4, 100070.	6.8	8
110	Rod shaped zirconium titanate nanoparticles: Synthesis, comparison and systematic investigation of structural, photoluminescence, electrochemical sensing and supercapacitor properties. Ceramics International, 2022, 48, 35676-35688.	4.8	8
111	Photocatalytic studies of TiO <sub>2</sub> nanomaterials prepared via facile wet chemical route. Materials Today: Proceedings, 2017, 4, 11713-11719.	1.8	7
112	Structural, photocatalytic and electrochemical studies on facile combustion synthesized low-cost nano chromium (III) doped polycrystalline magnesium aluminate spinels. Journal of Science: Advanced Materials and Devices, 2021, 6, 462-471.	3.1	7
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