

# Dr Daruka Prasad B

## List of Publications by Year in descending order

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328  
papers

12,135  
citations

23500

58  
h-index

49773

87  
g-index

331  
all docs

331  
docs citations

331  
times ranked

7255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of multifunctional zinc oxide (ZnO) nanoparticles using Cassia fistula plant extract and their photodegradative, antioxidant and antibacterial activities. Materials Science in Semiconductor Processing, 2015, 31, 446-454.	1.9	419
2	Green synthesis of CuO nanoparticles using <i>Gloriosa superba</i> L. extract and their antibacterial activity. Journal of Taibah University for Science, 2015, 9, 7-12.	1.1	381
3	Structural, optical and EPR studies on ZnO:Cu nanopowders prepared via low temperature solution combustion synthesis. Journal of Alloys and Compounds, 2011, 509, 5349-5355.	2.8	272
4	Artocarpus gomezianus aided green synthesis of ZnO nanoparticles: Luminescence, photocatalytic and antioxidant properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 141, 128-134.	2.0	197
5	Facile green fabrication of nanostructure ZnO plates, bullets, flower, prismatic tip, closed pine cone: Their antibacterial, antioxidant, photoluminescent and photocatalytic properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 152, 404-416.	2.0	182
6	Tinospora cordifolia mediated facile green synthesis of cupric oxide nanoparticles and their photocatalytic, antioxidant and antibacterial properties. Materials Science in Semiconductor Processing, 2015, 33, 81-88.	1.9	162
7	Combustion synthesis, characterization and Raman studies of ZnO nanopowders. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 81, 53-58.	2.0	143
8	Biogenic synthesis of zinc oxide nanoparticles using <i>Ruta graveolens</i> (L.) and their antibacterial and antioxidant activities. Applied Nanoscience (Switzerland), 2016, 6, 703-710.	1.6	143
9	Effect of Calcination Temperature on Structural, Photoluminescence, and Thermoluminescence Properties of $Y_2O_3:Eu^{3+}$ Nanophosphor. Journal of Physical Chemistry C, 2013, 117, 1915-1924.	1.5	142
10	Effect of Li <sup>+</sup> -ion on enhancement of photoluminescence in Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanophosphors prepared by combustion technique. Journal of Alloys and Compounds, 2011, 509, 2368-2374.	2.8	135
11	Combustion synthesized tetragonal ZrO <sub>2</sub> : Eu <sup>3+</sup> nanophosphors: Structural and photoluminescence studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 241-251.	2.0	124
12	Effective fingerprint recognition technique using doped yttrium aluminate nano phosphor material. Journal of Colloid and Interface Science, 2016, 464, 206-218.	5.0	115
13	Red and green emitting CTAB assisted CdSiO <sub>3</sub> :Tb <sup>3+</sup> /Eu <sup>3+</sup> nanopowders as fluorescent labeling agents used in forensic and display applications. Dyes and Pigments, 2017, 147, 364-377.	2.0	112
14	Garcinia xanthochymus mediated green synthesis of ZnO nanoparticles: Photoluminescence, photocatalytic and antioxidant activity studies. Ceramics International, 2015, 41, 8680-8687.	2.3	108
15	Novel and highly efficient red luminescent sensor based SiO <sub>2</sub> @Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> , M <sup>+</sup> (M <sup>+</sup> = Li, Na, K) composite core-shell fluorescent markers for latent fingerprint recognition, security ink and solid state lightning applications. Sensors and Actuators B: Chemical, 2017, 251, 310-325.	4.0	107
16	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. Sensors and Actuators B: Chemical, 2014, 195, 140-149.	4.0	106
17	Versatile core-shell SiO <sub>2</sub> @SrTiO <sub>3</sub> :Eu <sup>3+</sup> , Li <sup>+</sup> nanopowders as fluorescent label for the visualization of latent fingerprints and anti-counterfeiting applications. Chemical Engineering Journal, 2017, 327, 1135-1150.	6.6	105
18	Leucas aspera mediated multifunctional CeO <sub>2</sub> nanoparticles: Structural, photoluminescent, photocatalytic and antibacterial properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 452-462.	2.0	104

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19	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.	2.8	101
20	Green mediated synthesis and characterization of ZnO nanoparticles using Euphorbia Jatropa latex as reducing agent. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 301-310.	1.5	99
21	Rapid identification of latent fingerprints, security ink and WLED applications of CaZrO <sub>3</sub> :Eu <sup>3+</sup> fluorescent labelling agent fabricated via bio-template assisted combustion route. <i>Journal of Alloys and Compounds</i> , 2018, 762, 763-779.	2.8	98
22	Superstructures of doped yttrium aluminates for luminescent and advanced forensic investigations. <i>Journal of Alloys and Compounds</i> , 2016, 686, 577-587.	2.8	95
23	Synthesis, structural and luminescence studies of magnesium oxide nanopowder. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 847-851.	2.0	94
24	Reactivity of Crystalline ZnO Superstructures against Fungi and Bacterial Pathogens: Synthesized Using Nerium oleander Leaf Extract. <i>Crystal Growth and Design</i> , 2014, 14, 4068-4079.	1.4	93
25	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.	2.0	93
26	Green, Nonchemical Route for the Synthesis of ZnO Superstructures, Evaluation of Its Applications toward Photocatalysis, Photoluminescence, and Biosensing. <i>Crystal Growth and Design</i> , 2016, 16, 6828-6840.	1.4	93
27	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.	10.8	89
28	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.	2.8	87
29	Effect of different fuels on structural, thermo and photoluminescent properties of Gd <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 532-540.	2.0	86
30	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.	1.4	86
31	Photoluminescence, photocatalysis and Judd-Ofelt analysis of Eu <sup>3+</sup> -activated layered BiOCl phosphors. <i>RSC Advances</i> , 2015, 5, 4109-4120.	1.7	85
32	Particle size, morphology and color tunable ZnO:Eu <sup>3+</sup> nanophosphors via plant latex mediated green combustion synthesis. <i>Journal of Alloys and Compounds</i> , 2014, 584, 417-424.	2.8	84
33	Enhanced photoluminescence of Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanophosphors with alkali (M=Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> ) metal ion co-doping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 8-14.	2.0	83
34	Ultrasound assisted rare earth doped Wollastonite nanopowders: Labeling agent for imaging eccrine latent fingerprints and cheiloscopy applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 90-105.	2.9	83
35	Facile green fabrication of iron-doped cubic ZrO <sub>2</sub> nanoparticles by Phyllanthus acidus: Structural, photocatalytic and photoluminescent properties. <i>Journal of Molecular Catalysis A</i> , 2015, 397, 36-47.	4.8	81
36	Synthesis of Eu <sup>3+</sup> -activated BiOF and BiOBr phosphors: photoluminescence, Judd-Ofelt analysis and photocatalytic properties. <i>RSC Advances</i> , 2015, 5, 9241-9254.	1.7	79

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37	Effect of zinc substitution on the nanocobalt ferrite powders for nanoelectronic devices. Journal of Alloys and Compounds, 2014, 587, 50-58.	2.8	77
38	White light emitting magnesium aluminate nanophosphor: Near ultra violet excited photoluminescence, photometric characteristics and its UV photocatalytic activity. Journal of Alloys and Compounds, 2017, 728, 1124-1138.	2.8	77
39	EGCG assisted green synthesis of ZnO nanopowders: Photodegradative, antimicrobial and antioxidant activities. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 1467-1474.	2.0	75
40	Mg <sub>2</sub> SiO <sub>4</sub> :Tb <sup>3+</sup> nanophosphor: Auto ignition route and near UV excited photoluminescence properties for WLEDs. Journal of Alloys and Compounds, 2014, 617, 69-75.	2.8	74
41	Dual color emitting Eu doped strontium orthosilicate phosphors synthesized by bio-template assisted ultrasound for solid state lightning and display applications. Ultrasonics Sonochemistry, 2017, 34, 803-820.	3.8	73
42	Facile LaOF: Sm <sup>3+</sup> based labeling agent and their applications in residue chemistry of latent fingerprint and cheiloscopy under UV visible light. Arabian Journal of Chemistry, 2018, 11, 460-482.	2.3	73
43	Synthesis, characterization and photoluminescence properties of CaSiO <sub>3</sub> :Eu <sup>3+</sup> red phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 64-69.	2.0	72
44	Vitis labruska skin extract assisted green synthesis of ZnO super structures for multifunctional applications. Ceramics International, 2017, 43, 11656-11667.	2.3	72
45	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. Sensors and Actuators B: Chemical, 2017, 243, 1057-1066.	4.0	72
46	Bio-inspired synthesis of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> red nanophosphor for eco-friendly photocatalysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 141, 149-160.	2.0	71
47	Photoluminescence properties of Eu <sup>3+</sup> -activated CaMoO <sub>4</sub> phosphors for WLEDs applications and its Judd-Ofelt analysis. Journal of Materials Science, 2015, 50, 287-298.	1.7	70
48	CaTiO <sub>3</sub> :Eu <sup>3+</sup> red nanophosphor: Low temperature synthesis and photoluminescence properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 120, 395-400.	2.0	69
49	Facile EGCG assisted green synthesis of raspberry shaped CdO nanoparticles. Journal of Alloys and Compounds, 2016, 669, 232-239.	2.8	69
50	EGCG assisted Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanopowders with 3D micro-architecture assemblies useful for latent finger print recognition and anti-counterfeiting applications. Sensors and Actuators B: Chemical, 2018, 264, 426-439.	4.0	66
51	Neodymium doped yttrium aluminate synthesis and optical properties of a blue light emitting nanophosphor and its use in advanced forensic analysis. Dyes and Pigments, 2016, 134, 227-233.	2.0	65
52	SiO <sub>2</sub> @LaOF:Eu <sup>3+</sup> core-shell functional nanomaterials for sensitive visualization of latent fingerprints and WLED applications. Journal of Colloid and Interface Science, 2018, 518, 200-215.	5.0	65
53	MgO:Eu <sup>3+</sup> red nanophosphor: Low temperature synthesis and photoluminescence properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 46-52.	2.0	63
54	Fruit juice extract mediated synthesis of CeO <sub>2</sub> nanoparticles for antibacterial and photocatalytic activities. European Physical Journal Plus, 2016, 131, 1.	1.2	62

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55	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.	2.0	61
56	Structural, photoluminescence and thermoluminescence properties of CeO <sub>2</sub> nanoparticles. <i>Optik</i> , 2016, 127, 855-861.	1.4	61
57	Synthesis and photoluminescence properties of a novel Sr <sub>2</sub> CeO <sub>4</sub> :Dy <sup>3+</sup> nanophosphor with enhanced brightness by Li <sup>+</sup> co-doping. <i>RSC Advances</i> , 2014, 4, 38655-38662.	1.7	60
58	Zinc silicates with tunable morphology by surfactant assisted sonochemical route suitable for NUV excitable white light emitting diodes. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 700-712.	3.8	60
59	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.	2.0	59
60	Large-scale controlled bio-inspired fabrication of 3D CeO <sub>2</sub> :Eu <sup>3+</sup> hierarchical structures for evaluation of highly sensitive visualization of latent fingerprints. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3127-3147.	4.0	59
61	Synthesis and characterization of spherical and rod like nanocrystalline Nd <sub>2</sub> O <sub>3</sub> phosphors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1146-1151.	2.8	58
62	EPR, thermo and photoluminescence properties of ZnO nanopowders. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 59-63.	2.0	58
63	MgO:Dy <sup>3+</sup> nanophosphor: Self ignition route, characterization and its photoluminescence properties. <i>Materials Characterization</i> , 2014, 97, 27-36.	1.9	58
64	Auto-ignition based synthesis of Y <sub>2</sub> O <sub>3</sub> for photo- and thermo-luminescent applications. <i>Journal of Alloys and Compounds</i> , 2014, 585, 129-137.	2.8	56
65	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.	2.8	56
66	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.	2.0	56
67	Structural, EPR, photo and thermoluminescence properties of ZnO:Fe nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 133, 876-883.	2.0	55
68	<i>Euphorbia tirucalli</i> mediated green synthesis of rose like morphology of Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> red phosphor: Structural, photoluminescence and photocatalytic studies. <i>Journal of Alloys and Compounds</i> , 2015, 619, 760-770.	2.8	55
69	CdSiO <sub>3</sub> :Pr <sup>3+</sup> nanophosphor: Synthesis, characterization and thermoluminescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 279-287.	2.0	54
70	Plant latex mediated green synthesis of ZnAl <sub>2</sub> O <sub>4</sub> :Dy <sup>3+</sup> (1–9 mol%) nanophosphor for white light generation. <i>Journal of Alloys and Compounds</i> , 2014, 585, 561-571.	2.8	53
71	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.	2.0	53
72	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.	2.8	53

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73	Low temperature synthesis of pure cubic ZrO <sub>2</sub> nanopowder: Structural and luminescence studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 216-222.	2.0	52
74	Comparison of structural and luminescence properties of Dy <sub>2</sub> O <sub>3</sub> nanopowders synthesized by co-precipitation and green combustion routes. Materials Research Bulletin, 2014, 55, 237-245.	2.7	52
75	Bio-inspired route for the synthesis of spherical shaped MgO:Fe <sup>3+</sup> nanoparticles: Structural, photoluminescence and photocatalytic investigation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 703-713.	2.0	52
76	Mimosa pudica mediated praseodymium substituted calcium silicate nanostructures for white LED application. Journal of Alloys and Compounds, 2017, 690, 730-740.	2.8	52
77	Synthesis, structural characterization of nano ZnTiO <sub>3</sub> ceramic: An effective azo dye adsorbent and antibacterial agent. Journal of Asian Ceramic Societies, 2014, 2, 357-365.	1.0	51
78	Surfactant-Assisted BaTiO <sub>3</sub> :Eu <sup>3+</sup> @SiO <sub>2</sub> Core-Shell Superstructures Obtained by Ultrasonication Method: Dormant Fingerprint Visualization and Red Component of White Light-Emitting Diode Applications. ACS Sustainable Chemistry and Engineering, 2018, 6, 5214-5226.	3.2	51
79	Pivotal role of fluxes in BaTiO <sub>3</sub> :Eu <sup>3+</sup> nano probes for visualization of latent fingerprints on multifaceted substrates and anti-counterfeiting applications. Microchemical Journal, 2019, 145, 226-234.	2.3	51
80	Combustion synthesis, structural characterization, thermo and photoluminescence studies of CdSiO <sub>3</sub> :Dy <sup>3+</sup> nanophosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 93, 140-148.	2.0	50
81	Facile combustion synthesis of ZnO nanoparticles using Cajanus cajan (L.) and its multidisciplinary applications. Materials Research Bulletin, 2014, 57, 325-334.	2.7	50
82	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. Journal of Physics and Chemistry of Solids, 2019, 127, 127-139.	1.9	50
83	Effect of different fuels on structural, photo and thermo luminescence properties of solution combustion prepared Y <sub>2</sub> SiO <sub>5</sub> nanopowders. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 127, 177-184.	2.0	49
84	Spherical and rod-like Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanophosphors Structural and luminescence properties. Bulletin of Materials Science, 2012, 35, 519-527.	0.8	48
85	YAlO <sub>3</sub> :Cr <sup>3+</sup> nanophosphor: Synthesis, photoluminescence, EPR, dosimetric studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 96, 154-162.	2.0	48
86	Structural and magnetic studies of Mg(1-x)Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles prepared by a solution combustion method. Journal of Alloys and Compounds, 2013, 578, 103-109.	2.8	48
87	Rapid visualization of latent fingerprints using novel CaSiO <sub>3</sub> :Sm <sup>3+</sup> nanophosphors fabricated via ultrasound route. Journal of Rare Earths, 2019, 37, 32-44.	2.5	48
88	Investigation of structural and luminescence properties of Ho <sup>3+</sup> doped YAlO <sub>3</sub> nanophosphors synthesized through solution combustion route. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 115, 234-243.	2.0	47
89	Role of Cu <sup>2+</sup> ions substitution in magnetic and conductivity behavior of nano-CoFe <sub>2</sub> O <sub>4</sub> . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 256-262.	2.0	47
90	Green synthesis of Y <sub>2</sub> O <sub>3</sub> :Dy <sup>3+</sup> nanophosphor with enhanced photocatalytic activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 687-697.	2.0	47

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91	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.	2.0	47
92	Calotropis procera mediated combustion synthesis of ZnAl <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> nanophosphors: Structural and luminescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1027-1037.	2.0	47
93	Thermoluminescence response in gamma and UV irradiated Dy <sub>2</sub> O <sub>3</sub> nanophosphor. <i>Journal of Luminescence</i> , 2012, 132, 1798-1806.	1.5	46
94	Sonochemically assisted hollow/solid BaTiO <sub>3</sub> :Dy <sup>3+</sup> microspheres and their applications in effective detection of latent fingerprints and lip prints. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 22-33.	1.5	46
95	Electron paramagnetic resonance, magnetic and electrical properties of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 339, 40-45.	1.0	45
96	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.	2.8	45
97	Enhanced luminescence by monovalent alkali metal ions in Sr <sub>2</sub> SiO <sub>4</sub> :Eu <sup>3+</sup> nanophosphor prepared by low temperature solution combustion method. <i>Journal of Alloys and Compounds</i> , 2014, 595, 192-199.	2.8	45
98	Synthesis, characterization, EPR, photo and thermoluminescence properties of YAlO <sub>3</sub> :Ni <sup>2+</sup> nanophosphors. <i>Journal of Luminescence</i> , 2013, 135, 105-112.	1.5	44
99	Hydrothermal synthesis, characterization and Raman studies of Eu <sup>3+</sup> activated Gd <sub>2</sub> O <sub>3</sub> nanorods. <i>Physica B: Condensed Matter</i> , 2011, 406, 1639-1644.	1.3	43
100	Structural, EPR, optical and magnetic properties of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 512-518.	2.0	43
101	Beta vulgaris aided green synthesis of ZnO nanoparticles and their luminescence, photocatalytic and antioxidant properties. <i>European Physical Journal Plus</i> , 2015, 130, 1.	1.2	42
102	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
103	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.	2.8	41
104	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.	2.0	40
105	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.	1.4	40
106	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.	1.5	40
107	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.	1.5	39
108	Multifunctional Dy (III) doped di-calcium silicate array for boosting display and forensic applications. <i>Journal of Rare Earths</i> , 2018, 36, 690-702.	2.5	39

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109	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.	2.0	38
110	Ultrasound assisted sonochemically engineered effective red luminescent labeling agent for high resolution visualization of latent fingerprints. <i>Materials Research Bulletin</i> , 2018, 98, 250-264.	2.7	38
111	New design of highly sensitive and selective MoO <sub>3</sub> :Eu <sup>3+</sup> micro-rods: Probing of latent fingerprints visualization and anti-counterfeiting applications. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 443-456.	5.0	38
112	Surface functionalized inorganic phosphor by grafting organic antenna for long term preservation of latent fingerprints and data-security applications. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 887-897.	5.0	38
113	Luminescent characteristics of Eu <sup>3+</sup> doped di-calcium silicate nano-powders for white LEDs. <i>Journal of Alloys and Compounds</i> , 2013, 575, 434-443.	2.8	37
114	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.	0.7	37
115	Tapioca starch: An efficient fuel in gel-combustion synthesis of photocatalytically and anti-microbially active ZnO nanoparticles. <i>Materials Characterization</i> , 2015, 99, 266-276.	1.9	37
116	Red-emitting LaO:Eu <sup>3+</sup> phosphors: Synthesis, structure and their Judd-Ofelt analysis for LED applications. <i>Materials Research Bulletin</i> , 2016, 75, 100-109.	2.7	37
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#	ARTICLE	IF	CITATIONS
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155	Synthesis, photoluminescence and forensic applications of blue light emitting azomethine-zinc (II) complexes of bis(salicylidene)cyclohexyl-1,2-diamino based organic ligands. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 156-164.	1.5	27
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