

Durga Prasad Bisen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

1,700
citations

23
h-index

32
g-index

115
ext. papers

1,908
ext. citations

2.7
avg, IF

5.23
L-index

#	Paper	IF	Citations
112	Luminescence properties of blue-emitting Ce ³⁺ -doped series of Ca ₂ Al ₂ SiO ₇ and Sr ₂ Al ₂ SiO ₇ phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 20793-20803	2.1	0
111	Investigation of structural and thermal response of Sm ³⁺ doped Sr ₃ MgSi ₂ O ₈ phosphors. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	0
110	Photoluminescence and comparative thermoluminescence studies of UV/γ-irradiated Dy ³⁺ doped bismuth silicate phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 14454-14465	2.1	9
109	Thermoluminescence studies of Dy ³⁺ -doped calcium barium orthosilicate codoped with Li ⁺ ion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 1577-1583	4.1	2
108	Thermoluminescence glow curve for UV induced Sr ₃ MgSi ₂ O ₈ phosphor with its structural characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 771-777	2.1	5
107	Structural characterization and luminescence properties of Dy ³⁺ doped Ca ₃ MgSi ₂ O ₈ phosphors. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 423-433	5.7	43
106	Luminescence properties of near-UV excitable yellow-orange light emitting warm CaSrAl ₂ SiO ₇ :Sm ³⁺ phosphors. <i>Journal of Rare Earths</i> , 2019 , 37, 365-373	3.7	11
105	Study on photoluminescence and thermoluminescence properties of UV-irradiated CaSrAl ₂ SiO ₇ :Ce ³⁺ phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1412-1419	2.1	8
104	Cool white light emission from Dy activated alkaline alumino silicate phosphors. <i>Optics Express</i> , 2018 , 26, 29495-29508	3.3	36
103	Studies on thermoluminescence properties of alkaline earth silicate phosphors. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1383-1388	5.7	22
102	Growth and synthesis of Sr ₃ MgSi ₂ O ₈ :Dy ³⁺ nanorod arrays by a solid state reaction method. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	8
101	Studies on the luminescence properties of CaZrO ₃ :Eu ³⁺ phosphors prepared by the solid state reaction method. <i>Journal of Science: Advanced Materials and Devices</i> , 2017 , 2, 69-78	4.2	9
100	Luminescence studies on the europium doped strontium metasilicate phosphor prepared by solid state reaction method. <i>Journal of Science: Advanced Materials and Devices</i> , 2017 , 2, 59-68	4.2	10
99	Tuning of photoluminescence emission properties of Eu ³⁺ doped Gd ₂ O ₃ by different excitations. <i>Optik</i> , 2017 , 135, 281-289	2.5	8
98	3T1R model and tuning of thermoluminescence intensity by optimization of dopant concentration in monoclinic GdO:Er;Yb co-doped phosphor. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14680-14694	3.6	13
97	Photoluminescence and mechanoluminescence investigation of bluish-green afterglow SrMgAl ₁₀ O ₁₇ :Ce ³⁺ phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4750-4757	2.1	4
96	Studies on the luminescence properties of cerium co-doping on Ca MgSi O :Eu phosphor by solid-state reaction method. <i>Luminescence</i> , 2017 , 32, 1263-1276	2.5	5

95	Fracto- mechanoluminescence and thermoluminescence properties of orange-red emitting Eu ³⁺ doped Ca ₂ Al ₂ SiO ₇ phosphors. <i>Journal of Luminescence</i> , 2017 , 183, 89-96	3.8	16
94	INVESTIGATION OF THERMOLUMINESCENCE CHARACTERISTICS OF Y ₂ O ₃ :Er ³⁺ NANOPHOSPHORS. <i>Radiation Protection Dosimetry</i> , 2017 , 173, 293-301	0.9	1
93	Synthesis, characterization and thermoluminescence studies of (ZnS) (MnTe) nanophosphors. <i>Luminescence</i> , 2017 , 32, 375-381	2.5	2
92	Change in thermoluminescence behaviour of cubic Gd ₂ O ₃ :Yb ³⁺ phosphors with successive increase in Yb ³⁺ ion concentrations. <i>Radiation Physics and Chemistry</i> , 2017 , 130, 321-334	2.5	21
91	Enhanced luminescence performance of Sr ₂ MgSi ₂ O ₇ :Eu ²⁺ blue long persistence phosphor by co-doping with Ce ³⁺ ions. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 554-569	2.1	16
90	Photoluminescence properties of rare-earth-doped (Er ³⁺ , Yb ³⁺) Y ₂ O ₃ nanophosphors by a combustion synthesis method. <i>Luminescence</i> , 2016 , 31, 728-37	2.5	3
89	UV excited green luminescence of SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ nanophosphor. <i>Research on Chemical Intermediates</i> , 2016 , 42, 2791-2804	2.8	8
88	The effect of annealing and irradiation dose on the thermoluminescence glow peak of a monoclinic Gd ₂ O ₃ :Yb ³⁺ phosphor. <i>RSC Advances</i> , 2016 , 6, 80797-80807	3.7	14
87	Mechanoluminescence, thermoluminescence and photoluminescence studies of UV/γ-irradiated Ba ₂ MgSi ₂ O ₇ :Dy ³⁺ phosphors. <i>Journal of Luminescence</i> , 2016 , 180, 306-314	3.8	9
86	Photoluminescence and thermoluminescence properties of Eu doped and Eu, Dy co-doped Ba MgSi O phosphors. <i>Luminescence</i> , 2016 , 31, 1364-1371	2.5	6
85	Investigations on luminescence behaviour of Ce-activated BaMgAl O phosphor. <i>Luminescence</i> , 2016 , 31, 1306-1312	2.5	1
84	Structural Characterization of Gd ₂ O ₃ Phosphor Synthesized by Solid-State Reaction and Combustion Method Using X-Ray Diffraction and Transmission Electron Microscopic Techniques. <i>Journal of Display Technology</i> , 2016 , 12, 921-927		5
83	Enhanced long-persistence of Ca ₂ Al ₂ SiO ₇ :Ce ³⁺ phosphors for mechanoluminescence and thermoluminescence dosimetry. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 6399-6407 ^{2,1}	2.1	14
82	Luminescence properties of dysprosium doped di-calcium di-aluminium silicate phosphors. <i>Optical Materials</i> , 2016 , 58, 234-242	3.3	20
81	Mechanoluminescence properties of SrAl ₂ O ₄ :Eu(2+) phosphor by combustion synthesis. <i>Luminescence</i> , 2016 , 31, 394-400	2.5	21
80	Ca Al SiO :Ce phosphors for mechanoluminescence dosimetry. <i>Luminescence</i> , 2016 , 31, 1479-1487	2.5	9
79	Variation in luminescence behavior of Yb ³⁺ doped GdAlO ₃ phosphor with gradual increase in Yb ³⁺ concentration. <i>Infrared Physics and Technology</i> , 2016 , 75, 160-167	2.7	11
78	Luminescence behavior of europium activated strontium aluminate phosphors by solid state reaction method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3443-3455	2.1	12

77	Comparative study of thermoluminescence behaviour of Gd ₂ O ₃ phosphor synthesized by solid state reaction and combustion method with different exposure. <i>Radiation Measurements</i> , 2016 , 84, 41-54	1.5	14
76	Effect of gamma irradiation on thermoluminescence and fracto-mechanoluminescence properties of SrMgAl ₁₀ O ₁₇ :Eu ²⁺ phosphor. <i>Optical Materials</i> , 2016 , 53, 109-115	3.3	9
75	Generation of White Light from Dysprosium-Doped Strontium Aluminate Phosphor by a Solid-State Reaction Method. <i>Journal of Electronic Materials</i> , 2016 , 45, 2222-2232	1.9	18
74	Studies on the luminescence behavior of SrCaMgSi ₂ O ₇ :Eu ³⁺ phosphor by solid state reaction method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1828-1839	2.1	9
73	Impulsive excitation of mechanoluminescence in europium activated strontium ortho-silicate phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3934-3940	2.1	6
72	Enhancement of the photoluminescence and long afterglow properties of Ca ₂ MgSi ₂ O ₇ :Eu ²⁺ phosphor by Dy ³⁺ co-doping. <i>Research on Chemical Intermediates</i> , 2016 , 42, 1823-1843	2.8	16
71	Upconversion and colour tunability of Gd ₂ O ₃ :Er ³⁺ phosphor prepared by combustion synthesis method. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 423-432	5.7	25
70	Fracto-mechanoluminescence and thermoluminescence properties of UV and γ -irradiated Ca ₂ Al ₂ Si ₂ O ₇ :Ce ³⁺ phosphor. <i>Luminescence</i> , 2016 , 31, 793-801	2.5	9
69	Luminescence behavior of europium doped strontium magnesium silicate phosphor by solid state reaction method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 7573-7581	2.1	3
68	Synthesis and characterization of pure and Zn doped lead hydroxide nano structure through chemical root method. <i>Optik</i> , 2016 , 127, 4854-4858	2.5	3
67	Enhancement of photoluminescence behavior of Gd ₂ O ₃ :Er ³⁺ phosphor by alkali metal. <i>Optik</i> , 2016 , 127, 3693-3697	2.5	9
66	Luminescent properties of R ⁺ doped Sr ₂ MgSi ₂ O ₇ :Eu ³⁺ (R ⁺ = Li ⁺ , Na ⁺ and K ⁺) orange/red emitting phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 6721-6734	2.1	11
65	Optical and Structural characterization of pure and zinc-doped lead oxide nanostructures synthesized by chemical root method. <i>Optik</i> , 2016 , 127, 6028-6035	2.5	5
64	A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ Si ₂ O ₇ :Dy ³⁺ phosphors fabricated using a combustion-assisted method. <i>RSC Advances</i> , 2016 , 6, 49317-49327	3.7	15
63	The down conversion properties of a Gd ₂ O ₃ :Er ³⁺ phosphor prepared via a combustion synthesis method. <i>RSC Advances</i> , 2016 , 6, 92360-92370	3.7	22
62	Dysprosium-Doped Strontium Magnesium Silicate White Light Emitting Phosphor Prepared by Solid State Reaction Method. <i>Journal of Display Technology</i> , 2016 , 12, 1478-1487		3
61	Structural characterization of Er(3+),Yb(3+)-doped Gd ₂ O ₃ phosphor, synthesized using the solid-state reaction method, and its luminescence behavior. <i>Luminescence</i> , 2016 , 31, 8-15	2.5	10
60	Persistent luminescence of CaMgSi ₂ O ₆ :Eu(2+),Dy(3+) and CaMgSi ₂ O ₆ :Eu(2+),Ce(3+) phosphors prepared using the solid-state reaction method. <i>Luminescence</i> , 2016 , 31, 164-7	2.5	11

59	Photoluminescence and thermoluminescence studies of CaAl ₂ O ₄ :Dy(3+) phosphor. <i>Luminescence</i> , 2016 , 31, 76-80	2.5	6
58	Structural characterization and luminescence properties of bluish-green-emitting SrCaMgSi ₂ O ₇ :Eu ²⁺ , Dy ³⁺ phosphor by solid-state reaction method. <i>Research on Chemical Intermediates</i> , 2015 , 41, 8797-8814	2.8	25
57	Luminescence properties of green-emitting Ca ₂ MgSi ₂ O ₇ :Eu ²⁺ phosphor by a solid-state reaction method. <i>Luminescence</i> , 2015 , 30, 1125-32	2.5	29
56	Mechanoluminescence of Dy doped strontium aluminate nanophosphors. <i>Journal of Luminescence</i> , 2015 , 168, 49-53	3.8	10
55	Luminescence properties of dysprosium doped calcium magnesium silicate phosphor by solid state reaction method. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 1329-1338	5.7	28
54	Experimental and Theoretical Study of the Mechanoluminescence of ZnS:Mn Nanoparticles. <i>Journal of Electronic Materials</i> , 2015 , 44, 3312-3321	1.9	7
53	Structural and luminescence behavior of Gd ₂ O ₃ :Er ³⁺ phosphor synthesized by solid state reaction method. <i>Optik</i> , 2015 , 126, 2654-2658	2.5	16
52	Enhancement of the photoluminescence and long afterglow properties of Sr ₂ MgSi ₂ O ₇ :Eu(2+) phosphor by Dy(3+) co-doping. <i>Luminescence</i> , 2015 , 30, 1318-25	2.5	33
51	Thermoluminescence studies of ultraviolet and gamma irradiated erbium(III)- and ytterbium(III)-doped gadolinium oxide phosphors. <i>Materials Science in Semiconductor Processing</i> , 2015 , 33, 169-188	4.3	28
50	Structural characterization and optical properties of dysprosium doped strontium calcium magnesium di-silicate phosphor by solid state reaction method. <i>Displays</i> , 2015 , 38, 68-76	3.4	28
49	Luminescent properties of Dy ³⁺ - doped CaMgSi ₂ O ₆ phosphor. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 864-869	0.6	3
48	Mechanoluminescence of (ZnS) _{1-x} (MnTe) _x nanophosphors excited by impact of a load. <i>Journal of Luminescence</i> , 2015 , 166, 335-345	3.8	11
47	Synthesis and Optical Properties of CaMgSi ₂ O ₆ :Ce ³⁺ Phosphors. <i>Journal of Electronic Materials</i> , 2015 , 44, 3450-3457	1.9	4
46	Synthesis, structural characterization and study of blue shift in optical properties of zinc oxide nano particles prepared by chemical route method. <i>Superlattices and Microstructures</i> , 2015 , 88, 417-425	2.8	6
45	Comparison of emitted color by pure Gd ₂ O ₃ prepared by two different methods by CIE coordinates. <i>Superlattices and Microstructures</i> , 2015 , 88, 382-388	2.8	14
44	Comparative Study and Role of Er ³⁺ and Yb ³⁺ Concentrations on Upconversion Process of Gd ₂ O ₃ :Er ³⁺ Yb ³⁺ Phosphors Prepared By Solid-State Reaction and Combustion Method. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21072-21086	3.8	28
43	Luminescence studies of dysprosium doped strontium aluminate white light emitting phosphor by combustion route. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8824-8839	2.1	33
42	Studies on the luminescence properties of europium doped strontium aluminosilicate phosphors by solid state reaction method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 10075-10086	2.1	13

41	Dysprosium doped di-calcium magnesium di-silicate white light emitting phosphor by solid state reaction method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9907-9920	2.1	10
40	Effect of Yb 3+ concentration on photoluminescence properties of cubic Gd 2 O 3 phosphor. <i>Infrared Physics and Technology</i> , 2015 , 68, 92-97	2.7	28
39	Thermoluminescence of mercaptoethanol-capped ZnS:Mn nanoparticles. <i>Luminescence</i> , 2015 , 30, 175-81	2.5	3
38	Effect of capping agent concentration on thermoluminescence and photoluminescence of copper-doped zinc sulfide nanoparticles. <i>Luminescence</i> , 2015 , 30, 655-9	2.5	2
37	Influence of Er(3+) concentration on the photoluminescence characteristics and excitation mechanism of Gd2O3:Er(3+) phosphor synthesized via a solid-state reaction method. <i>Luminescence</i> , 2015 , 30, 668-76	2.5	21
36	Structural characterization and optical properties of Ca2MgSi2O7:Eu(2+),Dy(3+) phosphor by solid-state reaction method. <i>Luminescence</i> , 2015 , 30, 526-32	2.5	34
35	Thermoluminescence and Mechanoluminescence Properties of UV- Irradiated Ca2Al2SiO7:Ce3+, Tb3+ Phosphor. <i>Physics Procedia</i> , 2015 , 76, 53-58		7
34	Photoluminescence and Electroluminescence of Eu Doped Y2O3. <i>Physics Procedia</i> , 2015 , 76, 16-24		2
33	Effect of synthesis annealing temperature & Yb3+ concentration on photoluminescence properties of monoclinic Gd2O3 phosphor. <i>Journal of Optics (India)</i> , 2015 , 44, 337-345	1.3	4
32	Luminescence Properties of Sr2MgSi2O7:Eu2+, Ce3+ Phosphor by Solid State Reaction Method. <i>Physics Procedia</i> , 2015 , 76, 80-85		5
31	Thermoluminescence and Mechanoluminescence Properties of Ba2-xMgSi2O7:xCe3+ Phosphors. <i>Physics Procedia</i> , 2015 , 76, 59-67		6
30	Effect of annealing on down-conversion properties of monoclinic Gd2O3:Er3+ nanophosphors. <i>Luminescence</i> , 2015 , 30, 812-7	2.5	18
29	Characterization and luminescence properties of CaMgSi2O6:Eu2+ blue phosphor. <i>Luminescence</i> , 2015 , 30, 1034-40	2.5	4
28	Photoluminescence behavior of ZrO2: Eu3+ with variable concentration of Eu3+ doped phosphorPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2015 , 8, 11-16	1.5	34
27	Down-conversion luminescence property of Er3+ and Yb3+ co-doped Gd2O3 crystals prepared by combustion synthesis and solid state reaction method. <i>Superlattices and Microstructures</i> , 2015 , 81, 34-48	2.8	32
26	Luminescence properties of Eu2+, Dy3+-doped Sr2MgSi2O7, and Ca2MgSi2O7 phosphors by solid-state reaction method. <i>Research on Chemical Intermediates</i> , 2015 , 41, 6649-6664	2.8	34
25	Effect of the concentration of TEA on the formation of lead hydroxide micro to nanoparticle. <i>Materials Science in Semiconductor Processing</i> , 2015 , 32, 49-54	4.3	7
24	Electroluminescence and photoluminescence of rare earth (Eu,Tb) doped Y2O3 nanophosphor. <i>Journal of Luminescence</i> , 2014 , 155, 112-118	3.8	28

23	Gamma ray induced thermoluminescence studies of yttrium (III) oxide nanopowders doped with gadoliniumPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2014 , 7, 526-531	1.5	23
22	UV and gamma ray induced thermoluminescence properties of cubic Gd ₂ O ₃ :Er ³⁺ phosphorPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2014 , 7, 417-429	1.5	55
21	Characterization and luminescence properties of Gd ₂ O ₃ phosphor. <i>Research on Chemical Intermediates</i> , 2014 , 40, 1771-1779	2.8	60
20	Ytterbium Doped Gadolinium Oxide (Gd ₂ O ₃ :Yb ³⁺) Phosphor: Topology, Morphology, and Luminescence Behaviour. <i>Indian Journal of Materials Science</i> , 2014 , 2014, 1-7		21
19	Comparison of photoluminescence properties of Gd ₂ O ₃ phosphor synthesized by combustion and solid state reaction methodPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2014 , 7, 550-559	1.5	75
18	Synthesis and thermoluminescence behavior of ZrO ₂ :Eu ³⁺ with variable concentration of Eu ³⁺ doped phosphorPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2014 , 7, 486-490	1.5	18
17	Dysprosium doped di-strontium magnesium di-silicate white light emitting phosphor by solid state reaction method. <i>Displays</i> , 2014 , 35, 279-286	3.4	50
16	Thermoluminescence Characterization Of Gama-ray Irradiated Dy ³⁺ Activated SrAl ₄ O ₇ Nanophosphor. <i>Advanced Materials Letters</i> , 2014 , 5, 396-399	2.4	8
15	Optical and kinetic studies of CdS:Cu nanoparticles. <i>Research on Chemical Intermediates</i> , 2013 , 39, 3043-3048	3.0	32
14	Combustion synthesis and optical properties of ceria doped gadolinium-oxide nanopowder 2013 ,		9
13	Thermoluminescence and Mechanoluminescence of Eu Doped Y ₂ O ₃ Nanophosphors. <i>Physics Procedia</i> , 2012 , 29, 97-103		14
12	Mechanoluminescence by Impulsive Deformation and Photoluminescence of SrAl ₂ O ₄ :Eu Phosphor Prepared by Combustion Synthesis. <i>Physics Procedia</i> , 2012 , 29, 104-108		8
11	Mechanoluminescence and thermoluminescence of BaFCl:Sm ²⁺ and BaFBr:Sm ²⁺ crystals. <i>Radiation Effects and Defects in Solids</i> , 2012 , 167, 326-332	0.9	3
10	Mechanoluminescence by impulsive deformation of γ -irradiated Er-doped CaF ₂ crystals. <i>Journal of Luminescence</i> , 2011 , 131, 965-969	3.8	18
9	Mechanoluminescence and thermoluminescence of Mn doped ZnS nanocrystals. <i>Journal of Luminescence</i> , 2011 , 131, 2089-2092	3.8	38
8	Chemical route synthesis dependent particle size of Mn activated ZnS nanophosphors. <i>International Journal of Nanoparticles</i> , 2011 , 4, 64	0.4	9
7	Effect of Molar Concentration on Optical Absorption Spectra of ZnS:Mn Nanoparticles. <i>E-Journal of Chemistry</i> , 2010 , 7, S23-S26		1
6	Mechanoluminescence and thermoluminescence in . <i>Physics Procedia</i> , 2009 , 2, 431-440		14

5	Photoluminescence and electroluminescence studies of polyvinyl carbazole films. <i>Journal of Luminescence</i> , 2008 , 128, 1595-1600	3.8	11
4	Photophysical studies of polyvinylcarbazole polymer films. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 722-726	2.9	4
3	Suitable Stress Waveforms for the Deformation-Induced Electronic Excitation in Crystals. <i>Crystal Research and Technology</i> , 1995 , 30, 691-701	1.3	2
2	Electronic Excitation during Elastic Deformation of γ -Irradiated LiF Single Crystals. <i>Physica Status Solidi A</i> , 1992 , 132, K101-K104		22
1	Theoretical Approach to the Mechanoluminescence of Thermoluminescent Crystals. <i>Physica Status Solidi A</i> , 1989 , 114, K123-K125		1