Durga Prasad Bisen

List of Publications by Citations

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	Comparison of photoluminescence properties of Gd2O3 phosphor synthesized by combustion and solid state reaction methodPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. *Journal of Radiation Research and Applied Sciences*, **2014**, 7, 550-559	1.5	75
111	Characterization and luminescence properties of Gd2O3 phosphor. *Research on Chemical Intermediates*, **2014**, 40, 1771-1779	2.8	60
110	UV and gamma ray induced thermoluminescence properties of cubic Gd2O3:Er3+ phosphorPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. *Journal of Radiation Research and Applied Sciences*, **2014**, 7, 417-429	1.5	55
109	Dysprosium doped di-strontium magnesium di-silicate white light emitting phosphor by solid state reaction method. *Displays*, **2014**, 35, 279-286	3.4	50
108	Structural characterization and luminescence properties of Dy3+ doped Ca3MgSi2O8 phosphors. *Journal of Alloys and Compounds*, **2019**, 777, 423-433	5.7	43
107	Mechanoluminescence and thermoluminescence of Mn doped ZnS nanocrystals. *Journal of Luminescence*, **2011**, 131, 2089-2092	3.8	38
106	Cool white light emission from Dy activated alkaline alumino silicate phosphors. *Optics Express*, **2018**, 26, 29495-29508	3.3	36
105	Structural characterization and optical properties of Ca2MgSi2O7:Eu(2+),Dy(3+) phosphor by solid-state reaction method. *Luminescence*, **2015**, 30, 526-32	2.5	34
104	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. *Journal of Radiation Research and Applied Sciences*, **2015**, 8, 11-16	1.5	34
103	Luminescence properties of Eu2+, Dy3+-doped Sr2MgSi2O7, and Ca2MgSi2O7 phosphors by solid-state reaction method. *Research on Chemical Intermediates*, **2015**, 41, 6649-6664	2.8	34
102	Enhancement of the photoluminescence and long afterglow properties of Sr2MgSi2O7:Eu(2+) phosphor by Dy(3+) co-doping. *Luminescence*, **2015**, 30, 1318-25	2.5	33
101	Luminescence studies of dysprosium doped strontium aluminate white light emitting phosphor by combustion route. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 8824-8839	2.1	33
100	Optical and kinetic studies of CdS:Cu nanoparticles. *Research on Chemical Intermediates*, **2013**, 39, 3043-3048	2.8	32
99	Down-conversion luminescence property of Er3+ and Yb3+ co-doped Gd2O3 crystals prepared by combustion synthesis and solid state reaction method. *Superlattices and Microstructures*, **2015**, 81, 34-48	2.8	32
98	Luminescence properties of green-emitting Ca2MgSi2O7:Eu2+ phosphor by a solid-state reaction method. *Luminescence*, **2015**, 30, 1125-32	2.5	29
97	Luminescence properties of dysprosium doped calcium magnesium silicate phosphor by solid state reaction method. *Journal of Alloys and Compounds*, **2015**, 649, 1329-1338	5.7	28
96	Thermoluminescence studies of ultraviolet and gamma irradiated erbium(III)- and ytterbium(III)-doped gadolinium oxide phosphors. *Materials Science in Semiconductor Processing*, **2015**, 33, 169-188	4.3	28

95	Structural characterization and optical properties of dysprosium doped strontium calcium magnesium di-silicate phosphor by solid state reaction method. *Displays*, **2015**, 38, 68-76	3.4	28
94	Comparative Study and Role of Er3+ and Yb3+ Concentrations on Upconversion Process of Gd2O3:Er3+ Yb3+ Phosphors Prepared By Solid-State Reaction and Combustion Method. *Journal of Physical Chemistry C*, **2015**, 119, 21072-21086	3.8	28
93	Effect of Yb 3+ concentration on photoluminescence properties of cubic Gd 2 O 3 phosphor. *Infrared Physics and Technology*, **2015**, 68, 92-97	2.7	28
92	Electroluminescence and photoluminescence of rare earth (Eu,Tb) doped Y2O3 nanophosphor. *Journal of Luminescence*, **2014**, 155, 112-118	3.8	28
91	Structural characterization and luminescence properties of bluish-green-emitting SrCaMgSi2O7:Eu2+, Dy3+ phosphor by solid-state reaction method. *Research on Chemical Intermediates*, **2015**, 41, 8797-8814	2.8	25
90	Upconversion and colour tunability of Gd2O3:Er3+ phosphor prepared by combustion synthesis method. *Journal of Alloys and Compounds*, **2016**, 655, 423-432	5.7	25
89	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. *Journal of Radiation Research and Applied Sciences*, **2014**, 7, 526-531	1.5	23
88	Electronic Excitation during Elastic Deformation of -Irradiated LiF Single Crystals. *Physica Status Solidi A*, **1992**, 132, K101-K104		22
87	The down conversion properties of a Gd2O3:Er3+ phosphor prepared via a combustion synthesis method. *RSC Advances*, **2016**, 6, 92360-92370	3.7	22
86	Studies on thermoluminescence properties of alkaline earth silicate phosphors. *Journal of Alloys and Compounds*, **2018**, 735, 1383-1388	5.7	22
85	Influence of Er(3+) concentration on the photoluminescence characteristics and excitation mechanism of Gd2O3:Er(3+) phosphor synthesized via a solid-state reaction method. *Luminescence*, **2015**, 30, 668-76	2.5	21
84	Mechanoluminescence properties of SrAl2O4:Eu(2+) phosphor by combustion synthesis. *Luminescence*, **2016**, 31, 394-400	2.5	21
83	Change in thermoluminescence behaviour of cubic Gd2O3:Yb3+ phosphors with successive increase in Yb3+ ion concentrations. *Radiation Physics and Chemistry*, **2017**, 130, 321-334	2.5	21
82	Ytterbium Doped Gadolinium Oxide (Gd2O3:Yb3+) Phosphor: Topology, Morphology, and Luminescence Behaviour. *Indian Journal of Materials Science*, **2014**, 2014, 1-7		21
81	Luminescence properties of dysprosium doped di-calcium di-aluminium silicate phosphors. *Optical Materials*, **2016**, 58, 234-242	3.3	20
80	Generation of White Light from Dysprosium-Doped Strontium Aluminate Phosphor by a Solid-State Reaction Method. *Journal of Electronic Materials*, **2016**, 45, 2222-2232	1.9	18
79	Effect of annealing on down-conversion properties of monoclinic Gd2O3:Er3+ nanophosphors. *Luminescence*, **2015**, 30, 812-7	2.5	18
78	Synthesis and thermoluminescence 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. *Journal of Radiation Research and Applied Sciences*, **2014**, 7, 486-490	1.5	18

77	Mechanoluminescence by impulsive deformation of -irradiated Er-doped CaF2 crystals. *Journal of Luminescence*, **2011**, 131, 965-969	3.8	18
76	Enhanced luminescence performance of Sr2MgSi2O7:Eu2+ blue long persistence phosphor by co-doping with Ce3+ ions. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 554-569	2.1	16
75	Structural and luminescence behavior of Gd2O3:Er3+ phosphor synthesized by solid state reaction method. *Optik*, **2015**, 126, 2654-2658	2.5	16
74	Enhancement of the photoluminescence and long afterglow properties of Ca2MgSi2O7:Eu2+ phosphor by Dy3+ co-doping. *Research on Chemical Intermediates*, **2016**, 42, 1823-1843	2.8	16
73	Fracto- mechanoluminescence and thermoluminescence properties of orange-red emitting Eu 3+ doped Ca 2 Al 2 SiO 7 phosphors. *Journal of Luminescence*, **2017**, 183, 89-96	3.8	16
72	A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca2Al2SiO7:Dy3+ phosphors fabricated using a combustion-assisted method. *RSC Advances*, **2016**, 6, 49317-49327	3.7	15
71	Comparison of emitted color by pure Gd2O3 prepared by two different methods by CIE coordinates. *Superlattices and Microstructures*, **2015**, 88, 382-388	2.8	14
70	The effect of annealing and irradiation dose on the thermoluminescence glow peak of a monoclinic Gd2O3:Yb3+ phosphor. *RSC Advances*, **2016**, 6, 80797-80807	3.7	14
69	Enhanced long-persistence of Ca2Al2SiO7:Ce3+ phosphors for mechanoluminescence and thermoluminescence dosimetry. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 6399-6407	2.1	14
68	Comparative study of thermoluminescence behaviour of Gd2O3 phosphor synthesized by solid state reaction and combustion method with different exposure. *Radiation Measurements*, **2016**, 84, 41-54	1.5	14
67	Thermoluminescence and Mechanoluminescence of Eu Doped Y2O3 Nanophosphors. *Physics Procedia*, **2012**, 29, 97-103		14
66	Mechanoluminescence and thermoluminesence in . *Physics Procedia*, **2009**, 2, 431-440		14
65	3T1R model and tuning of thermoluminescence intensity by optimization of dopant concentration in monoclinic GdO:Er;Yb co-doped phosphor. *Physical Chemistry Chemical Physics*, **2017**, 19, 14680-14694	3.6	13
64	Studies on the luminescence properties of europium doped strontium alumino-silicate phosphors by solid state reaction method. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 10075-10086	2.1	13
63	Luminescence behavior of europium activated strontium aluminate phosphors by solid state reaction method. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 3443-3455	2.1	12
62	Mechanoluminescence of (ZnS)1-(MnTe)x nanophosphors excited by impact of a load. *Journal of Luminescence*, **2015**, 166, 335-345	3.8	11
61	Variation in luminescence behavior of Yb 3+ doped GdAlO 3 phosphor with gradual increase in Yb 3+ concentration. *Infrared Physics and Technology*, **2016**, 75, 160-167	2.7	11
60	Photoluminescence and electroluminescence studies of polyvinyl carbazole films. *Journal of Luminescence*, **2008**, 128, 1595-1600	3.8	11

59	Luminescent properties of R+ doped Sr2MgSi2O7:Eu3+ (R+ = Li+, Na+ and K+) orange□ed emitting phosphors. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 6721-6734	2.1	11
58	Persistent luminescence of CaMgSi2O6:Eu(2+),Dy(3+) and CaMgSi2O6:Eu(2+),Ce(3+) phosphors prepared using the solid-state reaction method. *Luminescence*, **2016**, 31, 164-7	2.5	11
57	Luminescence properties of near-UV excitable yellow-orange light emitting warm CaSrAl2SiO7:Sm3+ phosphors. *Journal of Rare Earths*, **2019**, 37, 365-373	3.7	11
56	Luminescence studies on the europium doped strontium metasilicate phosphor prepared by solid state reaction method. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 59-68	4.2	10
55	Mechanoluminescence of Dy doped strontium aluminate nanophosphors. *Journal of Luminescence*, **2015**, 168, 49-53	3.8	10
54	Dysprosium doped di-calcium magnesium di-silicate white light emitting phosphor by solid state reaction method. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9907-9920	2.1	10
53	Structural characterization of Er(3+),Yb(3+)-doped Gd2O3 phosphor, synthesized using the solid-state reaction method, and its luminescence behavior. *Luminescence*, **2016**, 31, 8-15	2.5	10
52	Studies on the luminescence properties of CaZrO3:Eu3+ phosphors prepared by the solid state reaction method. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 69-78	4.2	9
51	Mechanoluminescence, thermoluminescence and photoluminescence studies of UV/□-irradiated Ba2MgSi2O7:Dy3+ phosphors. *Journal of Luminescence*, **2016**, 180, 306-314	3.8	9
50	Ca Al SiO :Ce phosphors for mechanoluminescence dosimetry. *Luminescence*, **2016**, 31, 1479-1487	2.5	9
49	Effect of gamma irradiation on thermoluminescence and fracto-mechanoluminescence properties of SrMgAl10O17:Eu2+ phosphor. *Optical Materials*, **2016**, 53, 109-115	3.3	9
48	Studies on the luminescence behavior of SrCaMgSi2O7:Eu3+ phosphor by solid state reaction method. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 1828-1839	2.1	9
47	Combustion synthesis and optical properties of ceria doped gadolinium-oxide nanopowder **2013**,		9
46	Chemical route synthesis dependent particle size of Mn activated ZnS nanophosphors. *International Journal of Nanoparticles*, **2011**, 4, 64	0.4	9
45	Photoluminescence and comparative thermoluminescence studies of UV/□-irradiated Dy3+ doped bismuth silicate phosphor. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 14454-14465	2.1	9
44	Fracto-mechanoluminescence and thermoluminescence properties of UV and □-irradiated Ca□Al□SiO□:Ce□+ phosphor. *Luminescence*, **2016**, 31, 793-801	2.5	9
43	Enhancement of photoluminescence behavior of Gd2O3:Er3+ phosphor by alkali metal. *Optik*, **2016**, 127, 3693-3697	2.5	9
42	UV excited green luminescence of SrAl2O4:Eu2+, Dy3+ nanophosphor. *Research on Chemical Intermediates*, **2016**, 42, 2791-2804	2.8	8

41	Tuning of photoluminescence emission properties of Eu3+ doped Gd2O3 by different excitations. *Optik*, **2017**, 135, 281-289	2.5	8
40	Study on photoluminescence and thermoluminescence properties of UV-irradiated CaSrAl2SiO7:Ce3+ phosphors. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 1412-1419	2.1	8
39	Mechanoluminescence by Impulsive Deformation and Photoluminescence of SrAl2O4:Eu Phosphor Prepared by Combustion Synthesis. *Physics Procedia*, **2012**, 29, 104-108		8
38	Thermoluminescence Characterization Of Gama-ray Irradiated Dy3+ Activated SrAl4O7 Nanophosphor. *Advanced Materials Letters*, **2014**, 5, 396-399	2.4	8
37	Growth and synthesis of Sr3MgSi2O8:Dy3+ nanorod arrays by a solid state reaction method. *Optical and Quantum Electronics*, **2018**, 50, 1	2.4	8
36	Experimental and Theoretical Study of the Mechanoluminescence of ZnS:Mn Nanoparticles. *Journal of Electronic Materials*, **2015**, 44, 3312-3321	1.9	7
35	Thermoluminescence and Mechanoluminescence Properties of UV- Irradiated Ca2Al2SiO7:Ce3+, Tb3+ Phosphor. *Physics Procedia*, **2015**, 76, 53-58		7
34	Effect of the concentration of TEA on the formation of lead hydroxide micro to nanoparticle. *Materials Science in Semiconductor Processing*, **2015**, 32, 49-54	4.3	7
33	Synthesis, structural characterization and study of blue shift in optical properties of zinc oxide nano particles prepared by chemical route method. *Superlattices and Microstructures*, **2015**, 88, 417-425	2.8	6
32	Photoluminescence and thermoluminescence properties of Eu doped and Eu ,Dy co-doped Ba MgSi O phosphors. *Luminescence*, **2016**, 31, 1364-1371	2.5	6
31	Impulsive excitation of mechanoluminescence in europium activated strontium ortho-silicate phosphor. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 3934-3940	2.1	6
30	Thermoluminescence and Mechanoluminescence Properties of Ba2-xMgSi2O7:XCe3+ Phosphors. *Physics Procedia*, **2015**, 76, 59-67		6
29	Photoluminescence and thermoluminescence studies of CaAl2O4:Dy(3+) phosphor. *Luminescence*, **2016**, 31, 76-80	2.5	6
28	Studies on the luminescence properties of cerium co-doping on Ca MgSi O :Eu phosphor by solid-state reaction method. *Luminescence*, **2017**, 32, 1263-1276	2.5	5
27	Structural Characterization of Gd2O3 Phosphor Synthesized by Solid-State Reaction and Combustion Method Using X-Ray Diffraction and Transmission Electron Microscopic Techniques. *Journal of Display Technology*, **2016**, 12, 921-927		5
26	Luminescence Properties of Sr2MgSi2O7:Eu2+, Ce3+ Phosphor by Solid State Reaction Method. *Physics Procedia*, **2015**, 76, 80-85		5
25	Optical and Structural characterization of pure and zinc-doped lead oxide nanostructures synthesized by chemical root method. *Optik*, **2016**, 127, 6028-6035	2.5	5
24	Thermoluminescence glow curve for UV induced Sr3MgSi2O8 phosphor with its structural characterization. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 771-777	2.1	5

23	Photoluminescence and mechanoluminescence investigation of bluish-green afterglow SrMgAl10O17:Ce3+ phosphor. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 4750-4757	2.1	4
22	Synthesis and Optical Properties of CaMgSi2O6:Ce3+ Phosphors. *Journal of Electronic Materials*, **2015**, 44, 3450-3457	1.9	4
21	Effect of synthesis annealing temperature & Yb3+ concentration on photoluminescence properties of monoclinic Gd2O3 phosphor. *Journal of Optics (India)*, **2015**, 44, 337-345	1.3	4
20	Characterization and luminescence properties of CaMgSi2O6:Eu2+ blue phosphor. *Luminescence*, **2015**, 30, 1034-40	2.5	4
19	Photophysical studies of polyvinylcarbazole polymer films. *Journal of Applied Polymer Science*, **2007** , 104, 722-726	2.9	4
18	Photoluminescence properties of rare-earth-doped (Er□+,Yb□+) Y□□nanophosphors by a combustion synthesis method. *Luminescence*, **2016**, 31, 728-37	2.5	3
17	Luminescent properties of Dy3+ - doped CaMgSi2O6 phosphor. *Journal of the Korean Physical Society*, **2015**, 67, 864-869	0.6	3
16	Thermoluminescence of mercaptoethanol-capped ZnS:Mn nanoparticles. *Luminescence*, **2015**, 30, 175-81	2.5	3
15	Mechanoluminescence and thermoluminescence of BaFCl:Sm 2+ and BaFBr:Sm 2+ crystals. *Radiation Effects and Defects in Solids*, **2012**, 167, 326-332	0.9	3
14	Luminescence behavior of europium doped strontium magnesium silicate phosphor by solid state reaction method. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 7573-7581	2.1	3
13	Synthesis and characterization of pure and Zn doped lead hydroxide nano structure through chemical root method. *Optik*, **2016**, 127, 4854-4858	2.5	3
12	Dysprosium-Doped Strontium Magnesium Silicate White Light Emitting Phosphor Prepared by Solid State Reaction Method. *Journal of Display Technology*, **2016**, 12, 1478-1487		3
11	Effect of capping agent concentration on thermoluminescence and photoluminescence of copper-doped zinc sulfide nanoparticles. *Luminescence*, **2015**, 30, 655-9	2.5	2
10	Photoluminescence and Electroluminescence of Eu Doped Y2O3. *Physics Procedia*, **2015**, 76, 16-24		2
9	Synthesis, characterization and thermoluminescence studies of (ZnS) (MnTe) nanophosphors. *Luminescence*, **2017**, 32, 375-381	2.5	2
8	Suitable Stress Waveforms for the Deformation-Induced Electronic Excitation in Crystals. *Crystal Research and Technology*, **1995**, 30, 691-701	1.3	2
7	Thermoluminescence studies of Dy3+-doped calcium barium orthosilicate codoped with Li+ ion. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 1577-1583	4.1	2
6	Investigations on luminescence behaviour of Ce-activated BaMgAl O phosphor. *Luminescence*, **2016**, 31, 1306-1312	2.5	1

5	INVESTIGATION OF THERMOLUMINESCENCE CHARACTERISTICS OF Y2O3:Er3+ NANOPHOSPHORS. *Radiation Protection Dosimetry*, **2017**, 173, 293-301	0.9	1
4	Effect of Molar Concentration on Optical Absorption Spectra of ZnS:Mn Nanoparticles. *E-Journal of Chemistry*, **2010**, 7, S23-S26		1
3	Theoretical Approach to the Mechanoluminescence of Thermoluminescent Crystals. *Physica Status Solidi A*, **1989**, 114, K123-K125		1
2	Investigation of structural and thermal response of Sm3+ doped Sr3MgSi2O8 phosphors. *Optical and Quantum Electronics*, **2020**, 52, 1	2.4	0
1	Luminescence properties of blue-emitting Ce3+-doped series of Ca2Al2SiO7 and Sr2Al2SiO7 phosphors. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 20793-20803	2.1	0