

Jayasankar C K

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optical spectroscopy of Eu ³⁺ ions in lithium borate and lithium fluoroborate glasses. <i>Physica B: Condensed Matter</i> , 2000, 279, 262-281.	2.7	207
2	Optical properties of Sm ³⁺ ions in zinc and alkali zinc borosulphate glasses. <i>Optical Materials</i> , 1997, 8, 193-205.	3.6	183
3	Optical spectroscopy of Sm ³⁺ ions in phosphate and fluorophosphate glasses. <i>Optical Materials</i> , 2007, 29, 1429-1439.	3.6	179
4	Optical absorption and photoluminescence studies of Eu ³⁺ -doped phosphate and fluorophosphate glasses. <i>Journal of Luminescence</i> , 2007, 126, 109-120.	3.1	174
5	Fluorescence spectroscopy of Sm ³⁺ ions in P ₂ O ₅ -PbO-Nb ₂ O ₅ glasses. <i>Physica B: Condensed Matter</i> , 2008, 403, 3527-3534.	2.7	170
6	Optical properties of Sm ³⁺ ions in lithium borate and lithium fluoroborate glasses. <i>Journal of Alloys and Compounds</i> , 2000, 307, 82-95.	5.5	168
7	Spectroscopic properties of Dy ³⁺ ions in lithium borate and lithium fluoroborate glasses. <i>Optical Materials</i> , 2000, 15, 65-79.	3.6	164
8	White light emission in Dy ³⁺ -doped lead fluorophosphate glasses. <i>Materials Chemistry and Physics</i> , 2011, 130, 1078-1085.	4.0	160
9	Optical properties and generation of white light in Dy ³⁺ -doped lead phosphate glasses. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 118, 40-48.	2.3	149
10	Dy ³⁺ -doped zinc fluorophosphate glasses for white luminescence applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 113, 145-153.	3.9	141
11	Thermal and optical properties of Er ³⁺ -doped oxyfluorotellurite glasses. <i>Journal of Luminescence</i> , 2009, 129, 444-448.	3.1	139
12	Photoluminescence and energy transfer studies of Dy ³⁺ -doped fluorophosphate glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 70, 577-586.	3.9	135
13	Spectroscopic investigations of Dy ³⁺ ions in borosulphate glasses. <i>Physica B: Condensed Matter</i> , 1997, 240, 273-288.	2.7	133
14	Analysis of spectral data and comparative energy level parametrizations for Ln ³⁺ in cubic elpasolite crystals. <i>Journal of Alloys and Compounds</i> , 1994, 215, 349-370.	5.5	129
15	Spectroscopic properties of Dy ³⁺ -doped oxyfluoride glasses for white light emitting diodes. <i>Materials Express</i> , 2013, 3, 61-70.	0.5	127
16	Optical properties of Dy ³⁺ -doped phosphate and fluorophosphate glasses. <i>Optical Materials</i> , 2009, 31, 624-631.	3.6	122
17	Spectroscopic properties of Sm ³⁺ ions in lead fluorophosphate glasses. <i>Journal of Luminescence</i> , 2012, 132, 2802-2809.	3.1	115
18	On the local structure of Eu ³⁺ ions in oxyfluoride glasses. Comparison with fluoride and oxide glasses. <i>Journal of Chemical Physics</i> , 2001, 115, 10935-10944.	3.0	109

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19	Phenomenological spin-correlated crystal-field analyses of energy levels in Ln ³⁺ :LaCl ₃ systems. <i>Journal of the Less Common Metals</i> , 1989, 148, 289-296.	0.8	108
20	White light generation in Dy ³⁺ -doped oxyfluoride glass and transparent glass-ceramics containing CaF ₂ nanocrystals. <i>Optics Express</i> , 2011, 19, 1836.	3.4	108
21	Thermal, vibrational and optical properties of Eu ³⁺ -doped lead fluorophosphate glasses for red laser applications. <i>Materials Chemistry and Physics</i> , 2013, 141, 903-911.	4.0	107
22	Optical characterization of Er ³⁺ -doped zinc fluorophosphate glasses for optical temperature sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 156-164.	7.8	107
23	Luminescence properties of Dy ³⁺ ions in a variety of borate and fluoroborate glasses containing lithium, zinc, and lead. <i>Journal of Alloys and Compounds</i> , 2004, 374, 22-26.	5.5	103
24	Characterization of Eu ³⁺ -doped fluorophosphate glasses for red emission. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1397-1401.	3.1	99
25	Optical properties of Eu ³⁺ ions in phosphate glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 788-797.	3.9	97
26	Spectroscopic investigations of 1.06 μ m emission in Nd ³⁺ -doped alkali niobium zinc tellurite glasses. <i>Journal of Luminescence</i> , 2010, 130, 1021-1025.	3.1	96
27	Optical spectroscopy, 1.5 μ m emission, and upconversion properties of Er ³⁺ -doped metaphosphate laser glasses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2218.	2.1	95
28	Optical properties of zincfluorophosphate glasses doped with Dy ³⁺ ions. <i>Physica B: Condensed Matter</i> , 2013, 408, 158-163.	2.7	93
29	Fluorescence properties of Eu ³⁺ ions doped borate and fluoroborate glasses containing lithium, zinc and lead. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 276-281.	3.9	86
30	Synthesis and characterization of thiophenol passivated Fe-doped ZnS nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 150, 125-129.	3.5	86
31	Energy-level and line-strength analysis of optical transitions between Stark levels in Nd ³⁺ :Y ₃ Al ₅ O ₁₂ . <i>Physical Review B</i> , 1994, 50, 16309-16325.	3.2	85
32	Structural and spectroscopic investigations on Eu ³⁺ -doped alkali fluoroborate glasses. <i>Solid State Sciences</i> , 2009, 11, 1297-1302.	3.2	85
33	Fluorescence properties of Nd ³⁺ -doped tellurite glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 702-708.	3.9	84
34	Comparative analysis of Nd ³⁺ (4f ³) energy levels in four garnet hosts. <i>Physical Review B</i> , 1990, 41, 7999-8012.	3.2	83
35	Optical and luminescence properties of Dy ³⁺ ions in phosphate based glasses. <i>Solid State Sciences</i> , 2013, 22, 82-90.	3.2	83
36	Structural and spectroscopic properties of Eu ³⁺ -doped zinc fluorophosphate glasses. <i>Journal of Molecular Structure</i> , 2013, 1036, 42-50.	3.6	83

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37	Spectroscopic and photoluminescence properties of Sm ³⁺ ions in Pb–K–Al–Na phosphate glasses for efficient visible lasers. <i>Journal of Luminescence</i> , 2014, 153, 233-241.	3.1	83
38	Luminescence and laser transition studies of Dy ³⁺ :K–Mg–Al fluorophosphate glasses. <i>Physica B: Condensed Matter</i> , 2009, 404, 235-242.	2.7	82
39	Relevance of radiative transfer processes on Nd ³⁺ doped phosphate glasses for temperature sensing by means of the fluorescence intensity ratio technique. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 324-331.	7.8	80
40	Optical properties of Er ³⁺ ions in lithium borate glasses and comparative energy level analyses of Er ³⁺ ions in various glasses. <i>Journal of Non-Crystalline Solids</i> , 1996, 197, 111-128.	3.1	77
41	Structural and luminescence properties of Sm ³⁺ ions in zinc fluorophosphate glasses. <i>Optical Materials</i> , 2013, 35, 1557-1563.	3.6	76
42	Spectroscopic and dielectric studies on MnO doped PbO–Nb ₂ O ₅ –P ₂ O ₅ glass system. <i>Journal of Alloys and Compounds</i> , 2008, 458, 66-76.	5.5	75
43	Structural, thermal and spectroscopic properties of highly Er ³⁺ -doped novel oxyfluoride glasses for photonic application. <i>Materials Research Bulletin</i> , 2014, 51, 336-344.	5.2	71
44	Concentration dependent luminescence properties of Sm ³⁺ -ions in tellurite–tungsten–zirconium glasses. <i>Optical Materials</i> , 2015, 40, 26-35.	3.6	71
45	Thermal, structural and optical properties of Eu ³⁺ -doped zinc-tellurite glasses. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5767-5774.	2.8	70
46	Spectroscopy of Pr ³⁺ ions in lithium borate and lithium fluoroborate glasses. <i>Physica B: Condensed Matter</i> , 2001, 301, 326-340.	2.7	69
47	Spectral investigations on Dy ³⁺ -doped transparent oxyfluoride glasses and nanocrystalline glass ceramics. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	69
48	EPR, optical, photoluminescence studies of Cr ³⁺ ions in Li ₂ O–Cs ₂ O–B ₂ O ₃ glasses – An evidence of mixed alkali effect. <i>Journal of Molecular Structure</i> , 2010, 975, 93-99.	3.6	69
49	Er ³⁺ –Yb ³⁺ codoped phosphate glasses used for an efficient 1.51/4m broadband gain medium. <i>Optical Materials</i> , 2012, 34, 1235-1240.	3.6	69
50	Spectroscopic and radiative properties of Sm ³⁺ -doped K–Mg–Al phosphate glasses. <i>Optics Communications</i> , 2013, 286, 204-210.	2.1	69
51	Spectroscopic and 1.061/4m laser properties of Nd ³⁺ -doped K–Sr–Al phosphate and fluorophosphate glasses. <i>Journal of Alloys and Compounds</i> , 2008, 458, 509-516.	5.5	67
52	Spectroscopic Investigation of Sm ³⁺ doped phosphate based glasses for reddish-orange emission. <i>Optics Communications</i> , 2013, 311, 156-162.	2.1	67
53	Optical properties of Nd ³⁺ ions in lithium borate glasses. <i>Materials Chemistry and Physics</i> , 1995, 42, 106-119.	4.0	65
54	Nanocrystalline lanthanide-doped Lu ₃ Ga ₅ O ₁₂ garnets: interesting materials for light-emitting devices. <i>Nanotechnology</i> , 2010, 21, 175703.	2.6	65

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55	Optical properties of Ho ³⁺ ions in lead phosphate glasses. <i>Optical Materials</i> , 2012, 35, 102-107.	3.6	65
56	Spectroscopic properties of Ho ³⁺ ions in zinc borosulphate glasses and comparative energy level analyses of Ho ³⁺ ions in various glasses. <i>Optical Materials</i> , 1995, 4, 529-546.	3.6	62
57	Synthesis, structure and luminescence of Er ³⁺ -doped Y ₃ Ga ₅ O ₁₂ nano-garnets. <i>Journal of Materials Chemistry</i> , 2012, 22, 13788.	6.7	62
58	Spectroscopic properties of Sm ³⁺ ions in phosphate and fluorophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 365, 85-92.	3.1	62
59	Dy ³⁺ -doped tellurite based tungsten-zirconium glasses: Spectroscopic study. <i>Journal of Molecular Structure</i> , 2015, 1084, 182-189.	3.6	62
60	High-pressure luminescence study of Eu ³⁺ in lithium borate glass. <i>Physical Review B</i> , 2004, 69, .	3.2	61
61	Structural, optical absorption and luminescence properties of Nd ³⁺ ions in NaO-NaF borate glasses. <i>Optical Materials</i> , 2010, 32, 1035-1041.	3.6	61
62	Optical and luminescence properties of Eu ³⁺ -doped phosphate based glasses. <i>Materials Express</i> , 2013, 3, 231-240.	0.5	61
63	Optical properties and energy transfer of Dy ³⁺ -doped transparent oxyfluoride glasses and glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 236-243.	3.1	60
64	Correlation-crystal-field analysis of Nd ³⁺ (4f ³) energy-level structures in various crystal hosts. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 5919-5936.	1.8	58
65	Fluorescence line narrowing spectral studies of Eu ³⁺ -doped lead borate glass. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 929-935.	3.1	58
66	Energy transfer and photoluminescence properties of Dy ³⁺ /Tb ³⁺ co-doped oxyfluorosilicate glass-ceramics for solid-state white lighting. <i>Ceramics International</i> , 2014, 40, 11115-11121.	4.8	58
67	1.53 Å luminescence properties of Er ³⁺ -doped Sr-Al phosphate glasses. <i>Ceramics International</i> , 2015, 41, 5765-5771.	4.8	57
68	Spectroscopic and fluorescence properties of Sm ³⁺ -doped zincfluorophosphate glasses. <i>Journal of Rare Earths</i> , 2014, 32, 918-926.	4.8	56
69	Dual emission from stoichiometrically mixed lanthanide complexes of 3-phenyl-4-benzoyl-5-isoxazolone and 2,2'-bipyridine. <i>Journal of Materials Chemistry</i> , 2009, 19, 1425.	6.7	55
70	Thermal and optical properties of Nd ³⁺ ions in Ca-Al fluorophosphate glasses. <i>Journal of Luminescence</i> , 2015, 166, 328-334.	3.1	55
71	Sol-gel synthesis and thermal stability of luminescence of Lu ₃ Al ₅ O ₁₂ :Ce ³⁺ nano-garnet. <i>Journal of Alloys and Compounds</i> , 2011, 509, 859-863.	5.5	53
72	High-pressure fluorescence study of Sm ³⁺ -doped borate and fluoroborate glasses. <i>Journal of Applied Physics</i> , 2005, 97, 093523.	2.5	50

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73	Efficient Nd ³⁺ /Yb ³⁺ energy transfer processes in high phonon energy phosphate glasses for 1.0 μm Yb ³⁺ laser. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	50
74	Optical spectroscopy, 1.06 μm emission properties of Nd ³⁺ -doped phosphate based glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 193-197.	3.9	50
75	Composition and concentration dependence of spectroscopic properties of Nd ³⁺ -doped tellurite and metaborate glasses. <i>Optical Materials</i> , 2011, 33, 928-936.	3.6	49
76	Optical absorption and emission properties of Nd ³⁺ -doped oxyfluorosilicate glasses for solid state lasers. <i>Infrared Physics and Technology</i> , 2014, 67, 555-559.	2.9	48
77	High-pressure fluorescence study of Sm ³⁺ : lithium fluoroborate glass. <i>Journal of Luminescence</i> , 2000, 91, 33-39.	3.1	47
78	Optical and fluorescence spectroscopy of Eu ₂ O ₃ -doped P ₂ O ₅ -K ₂ O-KF-MO-Al ₂ O ₃ (M = Mg, Sr and Ba) glasses. <i>Optics Communications</i> , 2011, 284, 2909-2914.	2.1	47
79	Structural and optical studies of Eu ³⁺ ions in alkali borate glasses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 131-139.	1.8	46
80	Gain properties and concentration quenching of Er ³⁺ -doped niobium oxyfluorosilicate glasses for photonic applications. <i>Optical Materials</i> , 2014, 36, 823-828.	3.6	46
81	Comparative Crystal-Field Analyses of 4f ^N Energy Levels in LiYF ₄ :Ln ³⁺ Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 155, 559-569.	1.5	45
82	Pressure-induced energy transfer processes between Sm ³⁺ ions in lithium fluoroborate glasses. <i>Physical Review B</i> , 2002, 66, .	3.2	45
83	Synthesis and luminescence properties of Er ³⁺ -doped Lu ₃ Ga ₅ O ₁₂ nanocrystals. <i>Journal of Luminescence</i> , 2008, 128, 811-813.	3.1	45
84	Optical properties of Yb ³⁺ -doped phosphate laser glasses. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5084-5089.	5.5	44
85	Spectral investigations of Sm ³⁺ -doped oxyfluorosilicate glasses. <i>Materials Research Bulletin</i> , 2013, 48, 3607-3613.	5.2	43
86	Optical and luminescence properties of Nd ³⁺ ions in K-Ba-Al-phosphate and fluorophosphate glasses. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 165-179.	1.8	42
87	ESR and photoluminescence properties of Cu doped ZnS nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 1503-1506.	3.9	42
88	Luminescence and energy transfer in Dy ³⁺ /Tb ³⁺ co-doped transparent oxyfluorosilicate glass-ceramics for green emitting applications. <i>Materials Research Bulletin</i> , 2016, 83, 507-514.	5.2	41
89	Luminescence and optical absorption properties of Nd ³⁺ ions in K-Mg-Al phosphate and fluorophosphate glasses. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3975-3991.	1.8	40
90	Spectroscopic characterization of alkali modified zinc-tellurite glasses doped with neodymium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 135-140.	3.9	40

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91	Phonon sideband spectrum and vibrational analysis of Eu ³⁺ -doped niobium oxyfluorosilicate glass. Journal of Luminescence, 2013, 143, 674-679.	3.1	38
92	Luminescence and decay characteristics of Tb ³⁺ -doped fluorophosphate glasses. Journal of Asian Ceramic Societies, 2018, 6, 82-87.	2.3	38
93	Spectral characteristics of Pr ³⁺ -doped lead phosphate glasses for optical display device and gain media applications. , 2020, ,		38
94	Optical and site-selective spectral studies of Eu ³⁺ -doped zinc oxyfluorotellurite glass. Journal of Applied Physics, 2006, 99, 053522.	2.5	36
95	Spectroscopy and radiation trapping of Yb ³⁺ ions in lead phosphate glasses. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 140, 37-47.	2.3	36
96	Role of Dy ³⁺ → Sm ³⁺ energy transfer in the tuning of warm to cold white light emission in Dy ³⁺ /Sm ³⁺ co-doped Lu ₃ Ga ₅ O ₁₂ nano-garnets. New Journal of Chemistry, 2018, 42, 1260-1270.	2.8	36
97	Emission characteristics of Dy ³⁺ ions in lead antimony borate glasses. Applied Physics B: Lasers and Optics, 2012, 108, 455-461.	2.2	35
98	1.55 μ m emission and upconversion properties of Er ³⁺ -doped oxyfluorotellurite glasses. Chemical Physics Letters, 2007, 445, 162-166.	2.6	34
99	Synthesis, structural and luminescence properties of near white light emitting Dy ³⁺ -doped Y ₂ CaZnO ₅ nanophosphor for solid state lighting. Ceramics International, 2013, 39, 7523-7529.	4.8	34
100	Luminescence properties of Tb ³⁺ ions in zinc fluorophosphate glasses for green laser applications. Materials Research Bulletin, 2015, 67, 196-200.	5.2	34
101	Crystal free-ion energy level analysis of Er ³⁺ (4f ¹¹) in various crystal hosts-oxygen coordinated systems. Physica B: Condensed Matter, 1994, 193, 166-176.	2.7	33
102	Optical and ESR studies on Fe doped ZnS nanocrystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1465-1468.	2.1	33
103	Optical spectroscopy and energy transfer in Tm ³⁺ -doped metaphosphate laser glasses. Journal of Physics Condensed Matter, 2005, 17, 4859-4876.	1.8	32
104	Optical properties of Dy ³⁺ -doped P ₂ O ₅ - K ₂ O~MgO/MgF ₂ ~Al ₂ O ₃ glasses. Physics Procedia, 2011, 13, 70-73.	1.2	32
105	Excitation and luminescence of rare earth-doped lead phosphate glasses. Applied Physics B: Lasers and Optics, 2014, 116, 837-845.	2.2	32
106	Spectroscopic properties of MO-WO ₃ -P ₂ O ₅ : Ho ³⁺ glasses. EPJ Applied Physics, 2004, 26, 169-176.	0.7	31
107	Crystal free-ion energy level analysis of Er ³⁺ (4f ¹¹) in various crystal hosts. I. Halides and garnet systems. Physica Status Solidi A, 1992, 131, 191-200.	1.7	30
108	Optical properties of Tm ³⁺ ions in lithium borate glasses. Optical Materials, 1996, 6, 185-201.	3.6	29

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109	Optical spectroscopy of thulium-doped oxyfluoroborate glass. <i>Journal of Alloys and Compounds</i> , 2004, 385, 12-18.	5.5	29
110	Luminescence properties of Eu ³⁺ ions in phosphate-based bioactive glasses. <i>Solid State Sciences</i> , 2011, 13, 1309-1314.	3.2	28
111	Preparation and luminescence characterization of Zn(1-x)MoO ₄ : xDy ³⁺ phosphor for white light-emitting diodes. <i>Optics Communications</i> , 2014, 312, 233-237.	2.1	28
112	Visible luminescence of Sm ³⁺ :Ca ²⁺ Li fluorophosphate glasses. <i>Journal of Molecular Structure</i> , 2014, 1074, 496-502.	3.6	28
113	Parametric analysis of f-f transition intensities in trigonal Na ₃ [Nd(oxydiacetate) ₃]·2NaClO ₄ ·6H ₂ O. <i>Chemical Physics</i> , 1989, 138, 139-156.	1.9	27
114	Spectroscopic properties of Eu ³⁺ /Nd ³⁺ co-doped phosphate glasses and opaque glass-ceramics. <i>Optical Materials</i> , 2015, 46, 34-39.	3.6	26
115	Local field dependent fluorescence properties of Eu ³⁺ ions in a fluorometaphosphate laser glass. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2139-2147.	3.1	25
116	Spin-Orbital Correlated Crystal Field Analyses of the 4f ² (Pr ³⁺) Energy Levels in LiYF ₄ :Pr ³⁺ and LiBiF ₄ :Pr ³⁺ . <i>Physica Status Solidi (B): Basic Research</i> , 1989, 155, 221-230.	1.5	24
117	Comparative crystal free-ion energy level analysis of Nd ³⁺ (4f ³) ions in various oxygen co-ordinated systems. <i>Physica B: Condensed Matter</i> , 1995, 212, 167-174.	2.7	24
118	Luminescence characteristics of Nd ³⁺ -doped Ba-Al-fluorophosphate laser glasses. <i>Journal of Alloys and Compounds</i> , 2008, 451, 697-701.	5.5	24
119	Optimizing white light luminescence in Dy ³⁺ -doped Lu ₃ Ga ₅ O ₁₂ nano-garnets. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	24
120	Carbazole functionalized new bipolar ligand for monochromatic red light-emitting europium(III) complex: combined experimental and theoretical study. <i>New Journal of Chemistry</i> , 2017, 41, 3112-3123.	2.8	23
121	Spectroscopic assessment of Dy ³⁺ ions in lead fluorosilicate glass as a prospective material for solid state yellow laser. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 315-321.	3.9	23
122	Crystal-field studies of excited states of neodymium gallium garnet. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 6451-6460.	1.5	22
123	Photoluminescence from the 5D ₀ level of Eu ³⁺ ions in a phosphate glass under pressure. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 1927-1938.	1.8	22
124	Probing the structure, morphology and multifold blue absorption of a new red-emitting nanophosphor for LEDs. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5849.	5.5	22
125	Spectroscopic investigation and optical characterization of Eu ³⁺ ions in Nb-Si glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 966-971.	3.9	22
126	Multicolor Upconversion Emission and Color Tunability in Tm ³⁺ /Er ³⁺ /Yb ³⁺ Tri-Doped NaNbO ₃ Nanocrystals. <i>Materials Express</i> , 2012, 2, 294-302.	0.5	21

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127	Optical and luminescence properties of Dy ³⁺ ions in K ⁺ Sr ²⁺ Al phosphate glasses for yellow laser applications. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 75-84.	2.2	21
128	Crystals field energy levels and transition line strengths of neodymium in trigonal Na ₃ [Nd(oxydiacetate) ₃]·2NaClO ₄ ·6H ₂ O. <i>Chemical Physics</i> , 1989, 138, 123-138.	1.9	20
129	Electron paramagnetic resonance and optical absorption spectra of Gd ³⁺ ions in alkali cadmium borosulphate glasses. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 174, 183-191.	1.5	20
130	Laser transition characteristics of Nd ³⁺ -doped fluorophosphate laser glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1402-1406.	3.1	20
131	1.06¼m laser transition characteristics of Nd ³⁺ -doped fluorophosphate glasses. <i>Materials Chemistry and Physics</i> , 2009, 117, 131-137.	4.0	20
132	Optical absorption and fluorescence properties of Tm ³⁺ -doped K ⁺ Mg ²⁺ Al phosphate glasses for laser applications. <i>Journal of Alloys and Compounds</i> , 2010, 496, 335-340.	5.5	20
133	Spin-correlated crystal-field interactions in NdF ₃ , Nd ³⁺ :LaF ₃ , and Nd ³⁺ :LiYF ₄ . <i>Inorganica Chimica Acta</i> , 1987, 139, 287-290.	2.4	19
134	A fluorescence study of Tb ³⁺ -doped tellurite glass under pressure. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 7007-7015.	1.8	19
135	Stokes and anti-Stokes luminescence in Tm ³⁺ /Yb ³⁺ -doped Lu ₃ Ga ₅ O ₁₂ nano-garnets: a study of multipolar interactions and energy transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14720-14729.	2.8	19
136	Comparative energy level parametrizations for lanthanide ions in octahedral symmetry environments. <i>Journal of Alloys and Compounds</i> , 1995, 225, 85-88.	5.5	17
137	Photon avalanche upconversion in Ho ³⁺ Yb ³⁺ co-doped transparent oxyfluoride glass ⁺ ceramics. <i>Chemical Physics Letters</i> , 2014, 600, 34-37.	2.6	17
138	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9454-9464.	2.8	17
139	Correlation-crystal-field analysis of Sm ³⁺ :Na ₃ [Sm(oxydiacetate) ₃]·...2NaClO ₄ ·...6H ₂ O. <i>Physical Review B</i> , 1994, 49, 12551-12555.	3.2	16
140	Optical properties of Tm ³⁺ ions in zinc borosulphate glasses and comparative energy level analyses of Tm ³⁺ ions in various glasses. <i>Journal of Non-Crystalline Solids</i> , 1994, 176, 213-229.	3.1	16
141	Optical properties of Nd ³⁺ ions in cadmium borosulphate glasses and comparative energy level analyses of Nd ³⁺ ions in various glasses. <i>Physica B: Condensed Matter</i> , 1996, 226, 313-330.	2.7	16
142	Electronic transitions, crystal field analysis and anomalous levels splittings in the optical spectrum of Pr ³⁺ in La ₂ O ₃ and Pr ₂ O ₃ . <i>Journal of Luminescence</i> , 1999, 85, 59-70.	3.1	16
143	Effect of pressure on luminescence properties of Sm ³⁺ ions in potassium niobate tellurite glass. <i>Journal of Luminescence</i> , 2008, 128, 718-720.	3.1	16
144	Pressure dependent luminescence properties of Eu ³⁺ : TeO ₂ ·K ₂ O·Nb ₂ O ₅ glass. <i>Journal of Physics: Conference Series</i> , 2008, 121, 042015.	0.4	16

#	ARTICLE	IF	CITATIONS
145	Luminescence properties of Sm ³⁺ -doped P ₂ O ₅ –PbO–Nb ₂ O ₅ glass under high pressure. Journal of Physics Condensed Matter, 2009, 21, 035108.	1.8	16
146	Optical properties of Yb ³⁺ ions in fluorophosphate glasses for 1.0–1.4 μm solid-state infrared lasers. Applied Physics B: Lasers and Optics, 2013, 113, 527-535.	2.2	16
147	Optical and upconversion properties of Er ³⁺ -doped oxyfluoride transparent glass-ceramics containing SrF ₂ nanocrystals. Journal of Materials Research, 2013, 28, 1481-1489.	2.6	16
148	Relating abundance of purpleback flying squid <i>Sthenoteuthis oualaniensis</i> (Cephalopoda): Tj ETQq 0 0 rgBT /Overlock 10 Tf 50 6 Journal of Natural History, 2018, 52, 1869-1882.	0.5	16
149	Synthesis, Structural Properties and Upconversion Emission of Er ³⁺ and Er ³⁺ /Yb ³⁺ Doped Nanocrystalline NaNbO ₃ . Science of Advanced Materials, 2012, 4, 584-590.	0.7	16
150	Spectroscopy and 1.47 μm emission properties of Tm ³⁺ -doped metaphosphate laser glasses. Materials Express, 2013, 3, 71-78.	0.5	15
151	Judd-Ofelt intensity analysis and spectral studies of Pr(III) ions in alkali zinc borosulphate glasses. Materials Chemistry and Physics, 1996, 46, 84-91.	4.0	14
152	Optical properties of single crystal Nd ³⁺ -doped Bi ₄ Ge ₃ O ₁₂ : Laser transitions at room and low temperature. Physical Review B, 2006, 74, .	3.2	14
153	Three- and two-photon upconversion luminescence switching in Tm ³⁺ /Yb ³⁺ -codoped sodium niobate nanophosphor. Journal of Nanophotonics, 2014, 8, 083093.	1.0	14
154	Infrared-to-Visible Light Conversion in Er ³⁺ :Yb ³⁺ :Lu ₃ Ga ₅ O ₁₂ Nanogarnets. ChemPhysChem, 2015, 16, 3928-3936.	2.1	14
155	Spontaneous and stimulated emission spectroscopy of a Nd(3+)-doped phosphate glass under wavelength selective pumping. Optics Express, 2011, 19, 19440-53.	3.4	14
156	Re-examination of the 4f ₃ energy parameters for several systems with neodymium oxygen atom coordination. Inorganica Chimica Acta, 1987, 139, 291-294.	2.4	13
157	Analysis of correlation effects in the crystal-field splitting of Nd ³⁺ :LaCl ₃ under pressure. Physical Review B, 1993, 48, 5919-5921.	3.2	13
158	Nano-crystallites formation and Eu ³⁺ luminescence in zinc boro-sulphate glasses. Optical Materials, 1996, 5, 57-62.	3.6	13
159	Efficient Nd ³⁺ sensitized Yb ³⁺ emission and infrared-to-visible energy conversion in gallium nano-garnets. RSC Advances, 2016, 6, 78669-78677.	3.6	13
160	Spectroscopic investigations of Pr(III) ions in alkali cadmium borosulphate glasses. Journal of Non-Crystalline Solids, 1993, 163, 249-260.	3.1	12
161	Comparative correlation crystal field analysis of Er ³⁺ (4f ¹¹) in garnet hosts. Journal of Alloys and Compounds, 1994, 207-208, 74-77.	5.5	12
162	Structural and luminescent properties of KY(1-x)DyxB ₃ O ₃ phosphors. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 170, 206-213.	3.9	12

#	ARTICLE	IF	CITATIONS
163	Spin-correlated crystal-field analysis and temperature-dependent paramagnetic susceptibility of neodymium gallium garnet. <i>Journal of Physics and Chemistry of Solids</i> , 1988, 49, 975-980.	4.0	11
164	Role of the local structure and the energy trap centers in the quenching of luminescence of the Tb ³⁺ ions in fluoroborate glasses: A high pressure study. <i>Journal of Chemical Physics</i> , 2010, 132, 114505.	3.0	11
165	Photon avalanche upconversion in Ho ³⁺ -doped gallium nano-garnets. <i>Optical Materials</i> , 2015, 39, 16-20.	3.6	11
166	Microwave-assisted combustion synthesis of silica-coated Eu:Gd ₂ O ₃ nanoparticles for MRI and optical imaging of cancer cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6860-6867.	2.2	11
167	Effect of high pressure on photoluminescence properties of Eu ³⁺ : Ba-Al fluorophosphate glasses. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1172-1177.	5.5	10
168	Photothermal and spectroscopic characterization of Tb ³⁺ -doped tungsten-zirconium-tellurite glasses. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	10
169	Preparation and Characterization of Yb ³⁺ -Doped Metaphosphate Glasses for High Energy and High Power Laser Applications. <i>Science of Advanced Materials</i> , 2013, 5, 276-284.	0.7	10
170	Comparative analysis of free-ion energy levels of Er ³⁺ (4f ¹¹) in various crystal hosts. <i>Journal of Alloys and Compounds</i> , 1993, 193, 203-206.	5.5	9
171	Optical properties of Er ³⁺ ions in zinc borosulphate glasses. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 195, 287-296.	1.5	9
172	Optical absorption spectra of the tripositive thulium ion in certain nitrate complexes. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 2967-2980.	1.5	8
173	Synthesis and characterization of Ce/Eu co-doped Na ₃ Gd(PO ₄) ₂ phosphors. <i>Physica B: Condensed Matter</i> , 2013, 431, 137-141.	2.7	8
174	Eu ³⁺ and Dy ³⁺ co-doped Na ₃ Gd(PO ₄) ₂ phosphors for white light luminescence. <i>Materials Express</i> , 2014, 4, 153-158.	0.5	8
175	Luminescence properties of Lu ₃ Al ₅ O ₁₂ :Tb ³⁺ nano-garnet. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1859-1865.	0.7	8
176	Optical properties and paramagnetic susceptibility of europium gallium garnet. <i>Chemical Physics Letters</i> , 1986, 125, 290-294.	2.6	7
177	High pressure fluorescence studies of Sm ³⁺ -doped Ba-Al phosphate glass. <i>High Pressure Research</i> , 2006, 26, 349-353.	1.2	7
178	Structural and Luminescence Properties of Ho ³⁺ /Yb ³⁺ -Doped Lu ₃ Ga ₅ O ₁₂ Nano-Garnets for Phosphor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 4495-4501.	0.9	7
179	Optical absorption spectra of the tripositive erbium ion in certain acetate complexes. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1984, 40, 695-704.	0.1	6
180	Spectroscopic properties of Er ³⁺ ions in cadmium and alkali cadmium borosulphate glasses. <i>Pramana - Journal of Physics</i> , 1997, 48, 1151-1160.	1.8	6

#	ARTICLE	IF	CITATIONS
181	Photoluminescence from the 5D4 level of Tb ³⁺ ions in Ba-Al fluorophosphate glass under pressure. Journal of Non-Crystalline Solids, 2007, 353, 1813-1817.	3.1	6
182	Validation of satellite and model aerosol optical depth and precipitable water vapour observations with AERONET data over Pune, India. International Journal of Remote Sensing, 2018, 39, 7643-7663.	2.9	6
183	Polarized absorption spectra of hexakis(antipyrine)-lanthanide(III) tri-iodide crystals: Centrosymmetric-to-non-centrosymmetric phase transitions. Journal of the Less Common Metals, 1989, 148, 281-287.	0.8	5
184	Optical Absorption and EPR Studies on Gamma-Ray Irradiated RE ³⁺ -Doped Fluorophosphate Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 594-602.	3.7	5
185	Synthesis, Structural and Luminescent Properties of Novel Eu ³⁺ /Y ³⁺ /CaZnO ₂ Nanophosphor for White Light-Emitting Diodes. Science of Advanced Materials, 2013, 5, 1539-1545.		5
186	Characterization, X-ray Absorption Spectroscopic Analysis and Photocatalytic Activity of Co/Zn Co-Doped TiO ₂ Nanoparticles Synthesized by One-Step Sonochemical Process. Crystals, 2021, 11, 1254.	2.2	5
187	Optical properties of Pr ³⁺ in alkali zinc borosulphate glasses. Journal of Alloys and Compounds, 1993, 193, 189-191.	5.5	4
188	Spectroscopic properties of Ho ³⁺ -doped Sr-Al phosphate glasses. Applied Physics A: Materials Science and Processing, 2014, 115, 689-696.	2.3	4
189	Effect of Ultrasonic Irradiation Time on Physical Properties and Photocatalytic Performance of BiVO ₄ Nanoparticles Prepared via Sonochemical Process. Integrated Ferroelectrics, 2021, 214, 123-132.	0.7	4
190	Optical absorption spectra of tripositive erbium ion in certain nitrate complexes. Pramana - Journal of Physics, 1984, 23, 129-140.	1.8	3
191	Pressure-dependent fluorescence studies of Sm ³⁺ -doped fluorophosphate glass. High Pressure Research, 2011, 31, 121-125.	1.2	3
192	Spectroscopic Properties of Yb ³⁺ -Doped Silicate Glasses. Zeitschrift Fur Physikalische Chemie, 2017, 232, 51-60.	2.8	3
193	High pressure luminescence study of Sm ³⁺ : Ba-Al fluorophosphate glass. High Pressure Research, 2010, 30, 424-427.	1.2	2
194	Pressure dependent luminescence properties of Sm ³⁺ ions in fluorophosphate glass. Journal of Physics: Conference Series, 2012, 377, 012018.	0.4	2
195	Optical spectra of thulium(III) ion in certain nitrate, sulphate and acetate complexes. Journal of the Less Common Metals, 1985, 112, 137-140.	0.8	1
196	Local structure of Eu ³⁺ ions in fluorophosphate laser glass. Pramana - Journal of Physics, 2010, 75, 1005-1010.	1.8	1
197	Optimization of luminescence properties of Ln ³⁺ :fluorosilicate glasses to fabricate waveguides for photonics applications. , 2011, , .		1
198	White light generation in Dy ³⁺ -doped fluorosilicate glasses for W-LED applications. Proceedings of SPIE, 2011, , .	0.8	1

#	ARTICLE	IF	CITATIONS
199	Upconversion properties of Er ³⁺ -doped oxyfluoride glass-ceramics containing SrF ₂ nanocrystals. Proceedings of SPIE, 2014, , .	0.8	1
200	Optical properties of Er ³⁺ -doped K-Ca-Al fluorophosphate glasses. , 2015, , .		1
201	Lanthanide-Doped Tellurite Glasses for Solar Energy Harvesting. , 2018, , 249-273.		1
202	Optical and photoluminescence dynamics of Dy ³⁺ :B ₂ O ₃ +Li ₂ O/LiF glasses. Ferroelectrics, 2019, 552, 53-63.	0.6	1
203	Synthesis and Color Tunable Up-converted Emission from Co-doped (Er ³⁺ +Yb ³⁺):Y ₂ CaZnO ₅ Nanophosphor. , 2012, , .		1
204	Interaction and intensity parameters for erbium(III) in certain acetate, nitrate and sulphate complexes. Journal of the Less Common Metals, 1986, 126, 233-238.	0.8	0
205	Absorption spectra of tripositive thulium ion in acetate complexes. Journal of Quantitative Spectroscopy and Radiative Transfer, 1986, 35, 179-185.	2.3	0
206	Chemical synthesis and Characterization of Cu doped ZnS nanoparticles. AIP Conference Proceedings, 2008, , .	0.4	0
207	Pressure-dependent luminescence properties of Tb ³⁺ -doped Ba-Al fluorophosphate glass. High Pressure Research, 2009, 29, 219-223.	1.2	0
208	Multicolor upconversion luminescence of rare-earth doped Y ₂ CaZnO ₅ nanophosphors for white lighting-emitting diodes. , 2014, , .		0
209	Upconversion studies of Ho ³⁺ activated tellurite glasses under the sensitization of Yb ³⁺ ions. AIP Conference Proceedings, 2018, , .	0.4	0
210	Fabrication and Characterization of 3D-Waveguides in Eu ³⁺ -doped Oxyfluorosilicate Glass. , 2012, , .		0
211	Enhancement of Luminescence Properties of Er ³⁺ /Yb ³⁺ :P ₂ O ₅ + BaO+La ₂ O ₃ Glasses for Photonic Applications. Integrated Ferroelectrics, 2022, 222, 190-198.		0
212	Optical absorption spectrum of thulium nitrate in solution. Proceedings of the Indian Academy of Sciences - Section A, 1982, 91, , .	0.2	0