

# Rajaramakrishna R

## List of Publications by Citations

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69  
papers

1,042  
citations

18  
h-index

29  
g-index

82  
ext. papers

1,491  
ext. citations

2.6  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
69	High transparency La <sub>2</sub> O <sub>3</sub> -CaO-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass for diagnosis x-rays shielding material application. <i>Radiation Physics and Chemistry</i> , <b>2019</b> , 160, 41-47	2.5	104
68	Deposition and characterization of TiAlSiN nanocomposite coatings prepared by reactive pulsed direct current unbalanced magnetron sputtering. <i>Applied Surface Science</i> , <b>2010</b> , 256, 6420-6426	6.7	68
67	Structural, spectroscopic and optical gain of Nd <sup>3+</sup> doped fluorophosphate glasses for solid state laser application. <i>Journal of Luminescence</i> , <b>2019</b> , 216, 116738	3.8	54
66	Spectroscopic properties of Sm <sup>3+</sup> -doped lanthanum borogermanate glass. <i>Journal of Luminescence</i> , <b>2014</b> , 156, 192-198	3.8	52
65	Nonlinear optical studies of lead lanthanum borate glass doped with Au nanoparticles. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 1667-1672	3.9	51
64	Investigations of optical and luminescence features of Sm <sup>3+</sup> doped Li <sub>2</sub> O-MO-B <sub>2</sub> O <sub>3</sub> (M=Mg/Ca/Sr/Ba) glasses mixed with different modifier oxides as an orange light emitting phosphor for WLEDs. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 749, 197-204	5.7	47
63	Photoluminescence and white light generation of Dy <sub>2</sub> O <sub>3</sub> doped Li <sub>2</sub> O-BaO-Gd <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> for white light LED. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 244-254	5.7	46
62	Molecular dynamics simulation and luminescence properties of Eu <sup>3+</sup> doped molybdenum gadolinium borate glasses for red emission. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 813, 151914	5.7	42
61	Intriguing energy transfer mechanism in oxide and oxy-fluoride phosphate glasses. <i>Optical Materials</i> , <b>2019</b> , 88, 429-444	3.3	33
60	Development of Eu <sup>3+</sup> doped Li <sub>2</sub> O-BaO-GdF <sub>3</sub> -SiO <sub>2</sub> oxyfluoride glass for efficient energy transfer from Gd <sup>3+</sup> to Eu <sup>3+</sup> in red emission solid state device application. <i>Journal of Luminescence</i> , <b>2018</b> , 203, 515-524	3.8	32
59	Influence of alkaline earth oxides on Eu <sup>3+</sup> doped lithium borate glasses for photonic, laser and radiation detection material applications. <i>Solid State Sciences</i> , <b>2019</b> , 89, 57-66	3.4	27
58	Comparative study of Sm <sup>3+</sup> ions doped phosphate based oxide and oxy-fluoride glasses for solid state lighting applications. <i>Journal of Rare Earths</i> , <b>2019</b> , 37, 374-382	3.7	26
57	Structure and nonlinear optical studies of Au nanoparticles embedded in lead lanthanum borate glass. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 406, 107-110	3.9	24
56	Energy transfer phenomenon of Gd to excited ground state of Eu ions in LiO-BaO-GdO-SiO-EuO glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 210, 21-29	4.4	24
55	Luminescence characteristics of Sm-doped lithium barium gadolinium silicate glasses for Orange LEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 214, 14-20	4.4	23
54	Physical and luminescence properties of samarium doped oxide and oxyfluoride phosphate glasses. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 229, 514-522	4.4	22
53	Spectroscopic study of Nd <sup>3+</sup> ion-doped Zn-Al-Ba borate glasses for NIR emitting device applications. <i>Optical Materials</i> , <b>2020</b> , 107, 110018	3.3	21

52	Investigations on nonlinear optical properties of gold nanoparticles doped fluoroborate glasses for optical limiting applications. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 538, 120010	3.9	18
51	Photoluminescence properties and energy transfer investigations of Gd <sup>3+</sup> and Sm <sup>3+</sup> co-doped ZnO-BaO-TeO <sub>2</sub> glasses for solid state laser application. <i>Journal of Luminescence</i> , <b>2020</b> , 224, 117275	3.8	18
50	Dy <sup>3+</sup> ions doped (Na <sub>2</sub> O/NaF)-Gd <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>5</sub> glasses for solid state lighting material applications. <i>Solid State Sciences</i> , <b>2019</b> , 97, 105972	3.4	18
49	Effect of BaO on lead free zinc barium tellurite glass for radiation shielding materials in nuclear application. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 550, 120386	3.9	17
48	Physical, optical properties and radiation shielding studies of xLa <sub>2</sub> O <sub>3</sub> -(100-x)B <sub>2</sub> O <sub>3</sub> glass system. <i>Ceramics International</i> , <b>2020</b> , 46, 5380-5386	5.1	16
47	Structural analysis and luminescence studies of Ce <sup>3+</sup> : Dy <sup>3+</sup> co-doped calcium zinc gadolinium borate glasses using EXAFS. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 171, 108695	2.5	15
46	Characterization and structural studies of lithium doped lead zinc phosphate glass system. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 249-252	4.4	15
45	Effect of sodium oxide and sodium fluoride in gadolinium phosphate glasses doped with Eu <sub>2</sub> O <sub>3</sub> content. <i>Journal of Luminescence</i> , <b>2020</b> , 219, 116950	3.8	15
44	Investigation of XANES study and energy transport phenomenon of Gd <sup>3+</sup> to Ce <sup>3+</sup> in CaO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses. <i>Optical Materials</i> , <b>2020</b> , 102, 109826	3.3	15
43	1.5 Th luminescence enhancement of Er <sup>3+</sup> by local field surface plasmon resonance of Ag nanoparticles in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 521, 119522	3.9	14
42	An extensive investigation of physical, optical and radiation shielding properties for borate glasses modified with gadolinium oxide. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	13
41	Physical, structural, optical, and radiation shielding properties of B <sub>2</sub> O <sub>3</sub> -Gd <sub>2</sub> O <sub>3</sub> -PbO glasses. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	13
40	Role of 5 mol% Mg-Ni on the Structural and Magnetic Properties of Cobalt Chromates Crystallites Prepared by Solution Combustion Technique. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2020</b> , 33, 2861-2866	1.5	12
39	Comparative study of optical and luminescence properties of Sm <sup>3+</sup> -ions doped Li <sub>2</sub> O-Gd <sub>2</sub> O <sub>3</sub> -PbO-Bi <sub>2</sub> O <sub>3</sub> and Li <sub>2</sub> O-Gd <sub>2</sub> O <sub>3</sub> -PbO-Bi <sub>2</sub> O <sub>3</sub> glasses for orange emission solid state device application. <i>Journal of Luminescence</i> , <b>2020</b> , 222, 117136	3.8	11
38	Photoluminescence Properties of Dy <sup>3+</sup> Ion-Doped Li <sub>2</sub> O-PbO-Gd <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Glasses for White Light Application. <i>Brazilian Journal of Physics</i> , <b>2019</b> , 49, 605-614	1.2	11
37	Sm <sup>3+</sup> -Doped Molybdenum Gadolinium Borate Glasses for Orange Emission Laser Active Medium. <i>Ukrainian Journal of Physics</i> , <b>2018</b> , 63, 721	0.4	11
36	Energy Transfer and Spectroscopic Investigation of Dy <sub>2</sub> O <sub>3</sub> Doped Li <sub>2</sub> O-BaO-Gd <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> for White Light LED. <i>Glass Physics and Chemistry</i> , <b>2019</b> , 45, 332-343	0.7	9
35	Development of ZnO-BaO-B <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> glass doped with Sm <sup>3+</sup> for orange emitting material. <i>Solid State Sciences</i> , <b>2019</b> , 98, 106041	3.4	9

34	Characterization and structural studies of vanadium doped lithium-barium-phosphate glasses. <i>Canadian Journal of Physics</i> , <b>2012</b> , 90, 235-239	1.1	8
33	Dy <sup>3+</sup> doped B <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-CaO-CaF <sub>2</sub> glass for efficient white light emitting sources. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 554, 120604	3.9	8
32	Reddish-orange emission and Judd-Ofelt investigation of Sm <sup>3+</sup> ions doped in zinc-bismuth-phospho-tellurite glasses for solid lighting application. <i>Journal of Luminescence</i> , <b>2020</b> , 226, 117498	3.8	7
31	Optical and radiative properties of Nd <sup>3+</sup> -doped lead tellurite borate glasses. <i>Canadian Journal of Physics</i> , <b>2013</b> , 91, 322-327	1.1	7
30	Effect of Gd <sub>2</sub> O <sub>3</sub> on the radiation shielding, physical, optical and luminescence behaviors of Gd <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> -In <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Dy <sub>2</sub> O <sub>3</sub> glasses. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 185, 109500	2.5	7
29	Enhanced non-linear optical properties of Eu <sup>3+</sup> activated glasses by embedding silver nanoparticles. <i>Ceramics International</i> , <b>2021</b> , 47, 16801-16808	5.1	6
28	Spectroscopy Study of Sm <sup>3+</sup> Doped Fluorosilicate Glasses for Orange Emission Solid-State Device Application. <i>Glass Physics and Chemistry</i> , <b>2019</b> , 45, 447-458	0.7	6
27	Impact of solvents on energy gap, photophysical, photometric properties for a new class of 4-HCM coumarin derivative: Nonlinear optical studies and optoelectronic applications. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 292, 111383	6	5
26	Structural and luminescence study of Dy <sup>3+</sup> doped phosphate glasses for solid state lighting applications. <i>Optical Materials</i> , <b>2020</b> , 109, 110322	3.3	4
25	Nonlinear optical, optical limiting and radiation shielding features of Eu <sup>3+</sup> activated borate glasses. <i>Optik</i> , <b>2021</b> , 232, 166563	2.5	4
24	Precursor Based Tuning of the Nonlinear Optical Properties of Au-Ag Bimetallic Nanoparticles Doped in Oxy-fluoroborate Glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 561, 120766	3.9	4
23	Structural studies of transition metal ions doped in biomass ash as silica source for glass production in Thailand. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1120, 012104	0.3	4
22	Eu <sup>3+</sup> ions doped SrO-CaO-Li <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> glasses for optical display material application. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1485, 012053	0.3	3
21	Influence of trivalent praseodymium ion on SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -BaO-CaO-Sb <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O-Br <sub>2</sub> O <sub>3</sub> glasses for X-Rays shielding and luminescence materials. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 184, 109467	2.5	3
20	Spectral Analysis of Ho <sup>3+</sup> Doped Barium Zinc Boro-Tellurite Glasses for Yellow-Green Luminescent Applications. <i>Glass Physics and Chemistry</i> , <b>2019</b> , 45, 29-35	0.7	2
19	Radiation shielding properties of BaO:WO <sub>3</sub> :Na <sub>2</sub> O:B <sub>2</sub> O <sub>3</sub> glass system using WinXCom program in the range of 1 keV to 100 GeV: Theoretical calculation. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1259, 012009	0.3	2
18	Glass material and their advanced applications. <i>KnE Social Sciences</i> ,	0.9	2
17	X-ray radiation shielding of CeO <sub>2</sub> doped borosilicate glasses and their luminescence characteristics. <i>Radiation Physics and Chemistry</i> , <b>2022</b> , 191, 109825	2.5	2

16	X-ray induced luminescence, optical, compositional and structural investigations of natural and imitation rubies: Identification technique. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 177, 109089	2.5	2
15	Sm <sup>3+</sup> Doped Lithium Strontium Borate Glasses for Solid State Lighting Applications. <i>Glass Physics and Chemistry</i> , <b>2019</b> , 45, 472-484	0.7	2
14	White Light Emission of Dy <sup>3+</sup> Doped Oxy-Fluoride Phosphate Glass System for Active Laser Medium. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 224, 1-12	0.8	2
13	Novel plaster waste glass for solid state lighting applications. <i>Optical Materials</i> , <b>2020</b> , 109, 110180	3.3	1
12	Spectroscopy Characterization of MWCNT Doped B <sub>2</sub> O <sub>3</sub> -Gd <sub>2</sub> O <sub>3</sub> -ZnO-Er <sub>2</sub> O <sub>3</sub> Glass for NIR Solid State Application. <i>Integrated Ferroelectrics</i> , <b>2021</b> , 214, 136-142	0.8	1
11	The Radioluminescence Investigation of Lead Sodium Borate Glass Doped with Eu <sup>3+</sup> . <i>Integrated Ferroelectrics</i> , <b>2022</b> , 224, 90-99	0.8	1
10	Optical properties of Sm <sup>3+</sup> doped in CaO-Al <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O-BaO-B <sub>2</sub> O <sub>3</sub> glasses for under-sea optical device applications. <i>Optik</i> , <b>2022</b> , 262, 169366	2.5	1
9	Effect of SnO <sub>2</sub> /SeO <sub>2</sub> on Au nano-particles doped silicate glasses: a structural study using XAS and EXAFS refinements. <i>Optical and Quantum Electronics</i> , <b>2020</b> , 52, 1	2.4	0
8	The Physical, Optical, Photo and Radioluminescence Studies of Dy <sup>3+</sup> Doped Zinc Barium Gadolinium Phosphate Glasses. <i>Glass Physics and Chemistry</i> , <b>2020</b> , 46, 474-486	0.7	0
7	Comparative Study on Au-Ag composition in Lithium Zinc Calcium Fluoroborate Glasses: Nonlinear Optics Perspective. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1819, 012022	0.3	0
6	Dy <sup>3+</sup> -Doped Li <sub>2</sub> O: BaO: Gd <sub>2</sub> O <sub>3</sub> : SiO <sub>2</sub> Glasses for Luminescence Applications. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 224, 71-83	0.8	0
5	Neodymium-Doped Multi-Component Borate/Phosphate Glasses for NIR Solid-State Material Applications. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 224, 13-32	0.8	0
4	White Emission from Li <sub>2</sub> O-BaO-Bi <sub>2</sub> O <sub>3</sub> -P <sub>2</sub> O <sub>5</sub> Glass Doped with Dy <sup>3+</sup> for Optical Condensed Material Applications. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 223, 18-28	0.8	0
3	Eu-Doped Gd <sub>2</sub> MoB <sub>2</sub> O <sub>9</sub> Phosphors for Latent Fingerprints Detection. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 225, 160-172	0.8	0
2	Effect of Sodium Oxide and Sodium Fluoride in Gadolinium Phosphate Glasses Doped with Eu <sub>2</sub> O <sub>3</sub> Content. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1428, 012029	0.3	
1	Spectroscopic Characterization and CIE Coordinate of Pr <sup>3+</sup> Ions Doped Pottasium Aluminum Gadolinium Phosphate Glasses. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 224, 52-61	0.8	