

# Nimitha S Prabhu

## List of Publications by Citations

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25  
papers

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29  
ext. papers

296  
ext. citations

3.3  
avg, IF

3.71  
L-index

#	Paper	IF	Citations
25	Physical, structural and optical properties of Sm <sup>3+</sup> doped lithium zinc alumino borate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 515, 116-124	3.9	41
24	Investigations on structural and radiation shielding properties of Er <sup>3+</sup> doped zinc bismuth borate glasses. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 230, 267-276	4.4	41
23	Investigations on the physical, structural, optical and photoluminescence behavior of Er <sup>3+</sup> ions in lithium zinc fluoroborate glass system. <i>Infrared Physics and Technology</i> , <b>2019</b> , 98, 7-15	2.7	18
22	Dy <sup>3+</sup> doped SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -NaF-xF <sub>2</sub> glasses: An exploration of optical and gamma radiation shielding features. <i>Current Applied Physics</i> , <b>2020</b> , 20, 1207-1216	2.6	16
21	Thermoluminescence features of Er <sup>3+</sup> doped BaO-ZnO-LiF-B <sub>2</sub> O <sub>3</sub> glass system for high-dose gamma dosimetry. <i>Ceramics International</i> , <b>2020</b> , 46, 19343-19353	5.1	13
20	Role of Bi <sub>2</sub> O <sub>3</sub> in altering the structural, optical, mechanical, radiation shielding and thermoluminescence properties of heavy metal oxide borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 542, 120136	3.9	13
19	Correlative exploration of structural and dielectric properties with Er <sub>2</sub> O <sub>3</sub> addition in BaO-xNaF-B <sub>2</sub> O <sub>3</sub> glasses. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 832, 154996	5.7	9
18	Evaluation of structural and gamma ray shielding competence of Li <sub>2</sub> O-K <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -HMO (HMO = SrO/TeO <sub>2</sub> /PbO/Bi <sub>2</sub> O <sub>3</sub> ) glass system. <i>Optik</i> , <b>2021</b> , 248, 168074	2.5	9
17	Dy <sup>3+</sup> : B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -xNaF/LiF oxyfluoride glasses for cool white or day white light-emitting applications. <i>Optical Materials</i> , <b>2020</b> , 108, 110186	3.3	7
16	0.25B0kGy Irradiation-induced modifications on the density, optical absorption, thermo-, and photo-luminescence of the 10BaO-0ZnO-0LiF-49.3B <sub>2</sub> O <sub>3</sub> -0.7Er <sub>2</sub> O <sub>3</sub> glass. <i>Journal of Luminescence</i> , <b>2021</b> , 231, 117820	3.8	6
15	An examination of the radiation-induced defects and thermoluminescence characteristics of Sm <sub>2</sub> O <sub>3</sub> doped BaO-xNaF-B <sub>2</sub> O <sub>3</sub> glass system for Edosimetry application. <i>Optical Materials</i> , <b>2021</b> , 118, 111252	3.3	5
14	Structural, dielectric, optical and photoluminescence studies of Tm <sup>3+</sup> doped B <sub>2</sub> O <sub>3</sub> -BaO-MgO-Li <sub>2</sub> O-Na <sub>2</sub> O-LiF glasses featuring strong blue emission. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 560, 120733	3.9	3
13	Reddish-orange emission from sol-gel derived Sm <sup>3+</sup> -doped Sr <sub>2</sub> La <sub>8</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> phosphors. <i>Optik</i> , <b>2021</b> , 227, 165935	2.5	3
12	Enhanced thermoluminescence intensity, stability, and sensitivity of the Yb <sup>3+</sup> doped BaO-xNaF-B <sub>2</sub> O <sub>3</sub> glass by Sm <sup>3+</sup> co-doping. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 271, 124906	4.4	3
11	Spectroscopic study of Er <sup>3+</sup> doped borate glass system for green emission device, NIR laser, and optical amplifier applications. <i>Journal of Luminescence</i> , <b>2021</b> , 238, 118216	3.8	2
10	Green emission features of erbium doped lithium zinc borate glasses <b>2020</b> ,		1
9	Exploration of the B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -MoO <sub>3</sub> glass system based on its physical, optical, and gamma ray shielding capabilities. <i>Optik</i> , <b>2021</b> , 248, 168177	2.5	1

8	Consequences of doping Er <sup>3+</sup> and Yb <sup>3+</sup> ions on the thermoluminescence dosimetry performance of the BaO-ZnO-LiF-B <sub>2</sub> O <sub>3</sub> -Sm <sub>2</sub> O <sub>3</sub> glass system. <i>Journal of Non-Crystalline Solids</i> , <b>2022</b> , 582, 121460	3.9	○
7	Comparing basic radiation attenuation factors of tellurite glasses containing PbCl <sub>2</sub> and Bi <sub>2</sub> O <sub>3</sub> with some other potential glass systems. <i>Optik</i> , <b>2021</b> , 168247	2.5	○
6	Impact of replacement of B <sub>2</sub> O <sub>3</sub> by TeO <sub>2</sub> on the physical, optical and gamma ray shielding characteristics of Pb-free B <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> -ZnO-Al <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-MgO glass system. <i>Optik</i> , <b>2021</b> , 248, 168100	2.5	○
5	Thermoluminescence investigations of Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> : Dy <sup>3+</sup> phosphor for gamma dosimetry applications. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 281, 125872	4.4	○
4	Network-modifying role of Er <sup>3+</sup> ions on the structural, optical, mechanical, and radiation shielding properties of ZnF <sub>2</sub> -BaO-Al <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> glass. <i>Radiation Physics and Chemistry</i> , <b>2022</b> , 110228	2.5	○
3	Effect of ZnO on radiation shielding competence of TeO <sub>2</sub> -ZnO-Fe <sub>2</sub> O <sub>3</sub> glass system. <i>Optik</i> , <b>2021</b> , 168270	2.5	○
2	Exploring the optical gamma radiation shielding features of barium and zinc doped fluorotellurite glasses: A comparative study with other glass systems. <i>Optik</i> , <b>2021</b> , 168175	2.5	○
1	Mechanical property evaluation of tellurite-germanate glasses and comparison of their radiation-shielding characteristics using EPICS2017 to other glass systems. <i>Open Chemistry</i> , <b>2022</b> , 20, 361-369	1.6	○