

Vinod Hegde

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Investigations on structural and radiation shielding properties of Er ³⁺ doped zinc bismuth borate glasses. <i>Materials Chemistry and Physics</i> , 2019, 230, 267-276.	4.0	61
2	Physical, structural and optical properties of Sm ³⁺ doped lithium zinc alumino borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 515, 116-124.	3.1	58
3	Red light emission from europium doped zinc sodium bismuth borate glasses. <i>Physica B: Condensed Matter</i> , 2017, 527, 35-43.	2.7	45
4	Effect of Eu ³⁺ in tuning the ultrafast third-order optical nonlinearity in heavy metal borate glasses. <i>Optical Materials</i> , 2020, 108, 110051.	3.6	45
5	The effect of 1.25 MeV γ rays on Sm ³⁺ doped lead fluoroborate glasses for reddish orange laser and radiation shielding applications. <i>Journal of Luminescence</i> , 2018, 199, 87-108.	3.1	37
6	Warm white light and colour tunable characteristics of Dy ³⁺ co-doped with Eu ³⁺ and Pr ³⁺ zinc sodium bismuth borate glasses for solid state lighting applications. <i>Materials Chemistry and Physics</i> , 2019, 234, 369-377.	4.0	36
7	Photoluminescence and thermally stimulated luminescence properties of Pr ³⁺ -doped zinc sodium bismuth borate glasses. <i>Optical Materials</i> , 2018, 84, 268-277.	3.6	35
8	Investigations on the physical, structural, optical and photoluminescence behavior of Er ³⁺ ions in lithium zinc fluoroborate glass system. <i>Infrared Physics and Technology</i> , 2019, 98, 7-15.	2.9	29
9	Photoemission and thermoluminescence characteristics of Dy ³⁺ -doped zinc sodium bismuth borate glasses. <i>Solid State Sciences</i> , 2019, 89, 130-138.	3.2	28
10	Compositional dependence of red photoluminescence of Eu ³⁺ ions in lead and bismuth containing borate glasses. <i>Solid State Sciences</i> , 2020, 107, 106360.	3.2	27
11	Enhanced non-linear optical properties of Eu ³⁺ activated glasses by embedding silver nanoparticles. <i>Ceramics International</i> , 2021, 47, 16801-16808.	4.8	27
12	Dy ³⁺ doped SiO ₂ -B ₂ O ₃ -Al ₂ O ₃ -NaF-ZnF ₂ glasses: An exploration of optical and gamma radiation shielding features. <i>Current Applied Physics</i> , 2020, 20, 1207-1216.	2.4	26
13	Effect of heavy metal oxides on photoluminescence and spectroscopic attributes of Eu ³⁺ activated borate glasses. <i>Optical Materials</i> , 2021, 114, 110933.	3.6	22
14	Effects of high dose gamma irradiation on the optical properties of Eu ³⁺ doped zinc sodium bismuth borate glasses for red LEDs. <i>Journal of Luminescence</i> , 2019, 207, 288-300.	3.1	21
15	Spectroscopic investigation on europium doped heavy metal borate glasses for red luminescent application. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	18
16	Influence of gamma irradiation on photoluminescence and nonlinear optical properties of Eu ³⁺ activated heavy metal borate glasses. <i>Optical Materials</i> , 2021, 116, 111102.	3.6	17
17	Gamma irradiation on bismuth borate glasses doped by Eu ³⁺ ions: Structural, optical and mechanical investigations. <i>Optik</i> , 2018, 160, 298-306.	2.9	14
18	Influence of 1.25 MeV gamma rays on optical and luminescent features of Er ³⁺ doped zinc bismuth borate glasses. <i>Results in Physics</i> , 2019, 12, 1762-1769.	4.1	14

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19	Photoluminescence, nonlinear optical and gamma radiation shielding properties of high concentration of Eu ₂ O ₃ doped heavy metal borate glasses. <i>Optik</i> , 2022, 251, 168433.	2.9	14
20	Photoluminescence and nonlinear optical investigations on Eu ₂ O ₃ doped sodium bismuth borate glasses for solid state lighting and near-infrared optical limiting applications. <i>Infrared Physics and Technology</i> , 2021, 116, 103784.	2.9	12
21	Optimising the Eu ₂ O ₃ concentration and tuning the photoluminescence attributes of Eu ₂ O ₃ doped borate glasses by Co ²⁺ doping with silver nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2022, 576, 121250.	3.1	12
22	Nonlinear optical, optical limiting and radiation shielding features of Eu ³⁺ activated borate glasses. <i>Optik</i> , 2021, 232, 166563.	2.9	10
23	Near-infrared nonlinear optical characteristics of silver nanoparticles embedded borate glasses activated with Sm ³⁺ ions: Effect of heat treatment. <i>Infrared Physics and Technology</i> , 2021, 119, 103959.	2.9	10
24	Analysis of Optical and Near-Infrared Luminescence of Er ³⁺ and Er ³⁺ /Yb ³⁺ Co-Doped Heavy Metal Borate Glasses for Optical Amplifier Applications. <i>Photonics</i> , 2022, 9, 355.	2.0	9
25	The effects of γ rays and electron beam on Eu ³⁺ + Sm ³⁺ and Eu ³⁺ + Nd ³⁺ co-doped lead fluoroborate glasses. <i>Materials Research Express</i> , 2018, 5, 095204.	1.6	5
26	Third-order nonlinear optical properties of Sm ₂ O ₃ activated cadmium alkali borate glasses. <i>Optical Materials</i> , 2022, 127, 112313.	3.6	5
27	The effects of 150 kGy dose γ rays on Nd ³⁺ doped lead fluoroborate glasses. <i>Physica B: Condensed Matter</i> , 2019, 556, 136-150.	2.7	3
28	Effects of 7.5 MeV electron beam irradiation on optical properties of Eu ³⁺ -doped zinc sodium bismuth borate glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 446, 5-9.	1.4	2
29	Photoluminescence properties of Dy ³⁺ doped Sb ₂ O ₃ -Na ₂ O-B ₂ O ₃ glasses for laser applications. <i>Materials Today: Proceedings</i> , 2022, 62, 5563-5566.	1.8	2