

Title of paper	Name of the author/s	Department of the author	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number	
						Link to website of the Journal	Link to article / paper / abstract of the article
Synthesis of Ca ₂ SiO ₄ :Dy ³⁺ phosphors from agricultural waste for solid state lighting applications	L. Lakshmi Devi, Ch. Basavapoornima, V. Venkatramu, P. Babu , C.K. Jayasankar	Physics	Ceramic International	2017	0272-8842	https://doi.org/10.1016/j.ceramint.2017.09.052	https://doi.org/10.1016/j.ceramint.2017.09.052
Spectroscopic studies on Yb ³⁺ -doped tungsten-tellurite glasses for laser applications	G. Venkataiah, P. Babu , I. R. Martín, K.Venkata Krishnaiah, K. Suresh, V. Lavín, and C. K. Jayasankar	Physics	Journal of Non-Crystalline Solids	2018	0022-3093	https://doi.org/10.1016/j.jnoncrysol.2017.09.036	https://doi.org/10.1016/j.jnoncrysol.2017.09.036
Effect of concentration on spectral properties of lanthanide ions-doped fluorophosphate glasses	R. Vijaya, V.Venkatramu, P. Babu , C.K. Jayasankar, J. Kaewkhao and W. Lertlop,	Physics	Mater. Today: Proceedings	2018	2214-7853	https://doi.org/10.1016/j.matpr.2018.04.042	https://doi.org/10.1016/j.matpr.2018.04.042
Dysprosium doped niobium zinc fluorosilicate glasses: Interesting materials for white light emitting devices	J. Prabhakar, K. Venkatakrishnaiah, K. Linganna, P. Babu , C.K. Jayasankar, Jihoon Kim, V. Venkatramau	Physics	Optik - International Journal for light and electron optics	2019	0030-4026	https://doi.org/10.1016/j.ijleo.2018.09.061	https://doi.org/10.1016/j.ijleo.2018.09.061
Investigation of modifier effect on the spectroscopic properties of Sm ³⁺ ions in binary boro-bismuth glasses.	K. Udaya Kumar, C.R. Kesavulu, P. Babu , C. K. Jayasankar	Physics	Journal of Non-Crystalline Solids	2019	0022-3093	https://doi.org/10.1016/j.jnoncrysol.2018.11.005	https://doi.org/10.1016/j.jnoncrysol.2018.11.005
Near-infrared and upconversion luminescence of Tm ³⁺ and Tm ³⁺ /Yb ³⁺ -doped oxyfluorosilicate glasses	C.S. Dwaraka Viswanath, P. Babu , I.R. Martín, V. Venkatramu, V. Lavín, C.K. Jayasankar,	Physics	Journal of Non-Crystalline Solids	2019	0022-3093	https://doi.org/10.1016/j.jnoncrysol.2018.12.009	https://doi.org/10.1016/j.jnoncrysol.2018.12.009
Infrared-laser precipitation of Dy ³⁺ -Yb ³⁺ codoped SrF ₂ nanocrystals in glass and upconversion luminescence	Gangseon Ji, Gi-Joon Hong, Chang-hyuck Bae, P. Babu , Ki-Soo Lim	Physics	Applied Surface Science	2019	0169-4332	https://doi.org/10.1016/j.apsusc.2019.01.272	https://doi.org/10.1016/j.apsusc.2019.01.272

Neodymium- doped magnesium based phosphate glasses for NIR laser applications at 1.05 μm	R.N.A. Prasad, R. Praveena, N. Vijaya, P. Babu , N. Krishna Mohan	Physics	Materials Research Express	2019	2053-1591	https://doi.org/10.1088/2053-1591/ab318e	https://doi.org/10.1088/2053-1591/ab318e
Temperature and composition dependence of the volumetric and acoustic properties of ionic liquid [emim][HSO ₄] with polar protic and aprotic co-solvents	P. Bhanuprakash , N.V.V. Jyothi, C.Narasimharao,M.Raveendra,K.Sivakumar	Chemistry	The Journal of Chemical Thermodynamics.	2018	0021-9614	https://doi.org/10.1016/j.jct.2018.03.007	https://doi.org/10.1016/j.jct.2018.03.007
Study of excess thermodynamic properties of binary systems containing cinnamaldehyde with alcohols supported by ATR-FTIR spectral studies	R. Prathibha, P. Bhanuprakash , N.V.V. Jyothi, K. Sivakumar	Chemistry	Chemical Data Collections	2019	2405-8300	https://doi.org/10.1016/j.cdc.2019.100184	https://doi.org/10.1016/j.cdc.2019.100184
Effect of temperature, nature of anion and alkyl chain length on the volumetric and acoustic properties of ionic liquid [C ₄ C ₁ im][MeSO ₄] with alkyl nitriles	P. Bhanuprakash , R. Prathibha, R.L. Gardas , K. Sivakumar , N.V.V. Jyothi	Chemistry	Journal of Molecular Liquids	2020	0167-7322	https://doi.org/10.1016/j.molliq.2020.112507	https://doi.org/10.1016/j.molliq.2020.112507
Excess volume, speed of sound and isentropic compressibility data of ternary mixtures containing N - Mmethylcyclohexylamine, P - xylene and (c ₃ - c ₅) 1 - alkanols	P.Bhanuprakash , CH.Bhara	Chemistry	Chemical Data Collections	2020	2405-8300	https://doi.org/10.1016/j.cdc.2020.100610	https://doi.org/10.1016/j.cdc.2020.100610
Insights into non-ideal behaviour of benzyl alcohol with (C ₂ -C ₄) carboxylic acids through volumetric, ultrasonic and ATR-FTIR spectroscopic studies	R. L. Gardas , R. Prathibha , K	Chemistry	Journal of Chemical and Chemistry of	2020	0031-9104	https://doi.org/10.1080/00319104.2020.1808654	https://doi.org/10.1080/00319104.2020.1808654

Investigation on thermodynamic properties and spectroscopic studies of binary mixtures of 1,2,4-trichlorobenzene with alkyl acetates (C1-C5) at T= (303.15 to 318.15) K	P.Bhanuprakash, R.Raju, S	Chemistry	Journal of Chemical Data Collection	2020	2405-8300	https://doi.org/10.1016/j.cdc.2021.100781	https://doi.org/10.1016/j.cdc.2021.100781
Quantum cutting and near-infrared emissions in Ho ³⁺ /Yb ³⁺ codoped transparent glass-ceramics	Dr.P.Babu Principal, I.R.Ma	Physics	Journal of Luminescence	2020	0022-2313	Quantum cutting and near-infrared emissions in Ho³⁺/Yb³⁺ codoped transparent glass-ceramics - ScienceDirect	Quantum cutting and near-infrared emissions in Ho³⁺/Yb³⁺ codoped transparent glass-ceramics - ScienceDirect
Optical Absorption and NIR Photoluminescence of ND ³⁺ - Activated Strontium Phosphate Glasses	Dr.P.Babu Principal, R.N.A	Physics	Journal of ELECTRONIC MATERIALS	2020	0361-5235	https://link.springer.com/article/10.1007/s11664-020-08383-5	https://link.springer.com/article/10.1007/s11664-020-08383-5
Role of excitation wavelength and dopant concentration on white light tunability of dysprosium doped titania-fluorophosphate glasses	DR.P.Babu, N.Ravi, G.Neel	Physics	Optical Materials	2020	0925-3467	https://www.sciencedirect.com/science/article/abs/pii/S0925346720309332	https://www.sciencedirect.com/science/article/abs/pii/S0925346720309332
Optical and white light emission properties of Dy ³⁺ ions doped zinc oxyfluorotellurite glasses	Dr.P.Babu, V.Chandrappa,	Physics	Journal of Physics of Condensed Matter	2020	0921-4526	https://www.sciencedirect.com/science/article/abs/pii/S0921452621002313?dgcid=rss_sd_all&utm_campaign=RESR_MRKT_Researcher_inbound&utm_medium=referral&utm_source=researcher_app	https://www.sciencedirect.com/science/article/abs/pii/S0921452621002313?dgcid=rss_sd_all&utm_campaign=RESR_MRKT_Researcher_inbound&utm_medium=referral&utm_source=researcher_app
Excess volume, speed of sound and isentropic compressibility	Ch. Bharath Kumar a , P. Bhanuprakashb , C. Narasimha Raoc , R.L. Gardas d, K. Sivakumar a,*	CHEMISTRY	Chemical Data Collections	2022	100610	www.journals.elsevier.com/the-journal-of-chemical-thermodynamics	https://doi.org/10.1016/j.cdc.2022.100610