

List of Publications

1. * *Spectroscopic and dielectric properties of ZnF₂-As₂O₃-TeO₂ glass system doped with V₂O₅*, **Y. Gandhi**, N. Venkatramaiah, V. Ravi Kumar and N. Veeraiah, **Physica B**, 404 (2009) 1450–1464.
2. * *Influence of tungsten on the emission features of Nd³⁺, Eu³⁺ and Sm³⁺ ions in ZnF₂-WO₃-TeO₂ glasses* **Y. Gandhi**, I. V. Kityk, M.G. Brik and N. Veeraiah, **Journal of Alloys and Compounds**, 2010 (accepted for publication)
3. * *Spectroscopic features of Ni²⁺ ions in tellurium arsenate glass system*, **Y. Gandhi** and N. Veeraiah (communicated)
4. *Influence of aluminium ions on fluorescent spectra and upconversion in co-doped CaF₂-Al₂O₃-P₂O₅-SiO₂: Ho³⁺ and Er³⁺ glass system*, **Y. Gandhi**, M. V. Ramachandra Rao, Ch. Srinvasa Rao, T. Srikumar, I.V. Kityk and N. Veeraiah, **Journal of Applied Physics (AIP)** 108, (2010) 023102
5. *Influence of modifier oxides on some physical properties of antimony borate glass system doped with V₂O₅*, **Y. Gandhi**, K.S.V. Sudhakar, T. Satyanarayana, N. Veeraiah, **Materials Chemistry and Physics**, 120 (2010) 89–97
6. *Copper ion as a structural probe in lead bismuth arsenate glasses by means of dielectric and spectroscopic studies*, N. Srinivasa Rao, L. Srinivasa Rao, **Y. Gandhi**, V. Ravikumar and N. Veeraiah, **Physica B** 10.1016/j.physb.2010.06.059
7. *Optically induced effects in nano crystallized PbO-Sb₂O₃-B₂O₃: Pr₂O₃ glasses*, T. Satyanarayana, I.V. Kityk, **Y. Gandhi**, V. Ravikumar, W. Kuznik, M. Piasecki, M. A. Valentie and N. Veeraiah, **Journal of Alloys and Compounds**, 500 (2010) 9–15
8. *Fe concentration dependent transport properties of LiI-AgI-B₂O₃ glass system*, K. Srilatha, K. Sambasiva Rao, **Y. Gandhi**, N. Veeraiah, **Journal of Alloys and Compounds** 10.1016/j.jallcom.2010.08.016
9. *Cobalt ion as a structural probe in PbO-As₂O₃ glass ceramics*, G. Nagarjuna, T. Satyanarayana, **Y. Gandhi**, P.V.V. Satyanarayana and N. Veeraiah, **Solid State Communications**, 150 (2010) 9-13

10. *Structural investigations on PbO-Sb₂O₃-B₂O₃: CoO glass ceramics by means of spectroscopic and dielectric studies*, T. Satyanarayana, I.V. Kityk, M. Piasecki, P. Bragiel, M.G. Brik, **Y. Gandhi**, N. Veeraiah **Journal of Physics – Condensed Matter**, 21 (2009) 245104
11. *Electrical conduction and other related properties of silver ion doped LiF–V₂O₅–P₂O₅ glass system*, M. Nagarjuna, P. Raghava Rao, **Y. Gandhi**, V. Ravikumar, N. Veeraiah, **Physica B**, 405 (2010) 668–677
12. *Spectroscopic and dielectric properties of crystallized PbO-Sb₂O₃-As₂O₃: NiO glass system*, A. Padmanabham, T. Satyanarayana, **Y. Gandhi**, N. Veeraiah, **Journal of Alloys and Compounds**, 88 (2009), pp. 400-408
13. *Micro structural, electrical, magnetic and spectroscopic properties of PbO-Sb₂O₃-As₂O₃: MnO glass ceramics*, A. Padmanabham, T. Satyanarayana, **Y. Gandhi**, N. Veeraiah, **Physica Status Solidi (a)**, 207 (2010) 80–91
14. *Influence of WO₃ on some physical properties of MO-Sb₂O₃-B₂O₃ (M = Ca, Pb & Zn) glass system*, **Y. Gandhi**, K.S.V. Sudhakar, M. Nagarjuna and N. Veeraiah, **Journal of Alloys and Compounds**, 2009, 485, 876-886
15. *Influence of Ag₂O on some physical properties of LiF-TiO₂-P₂O₅ glass system*, M. Nagarjuna, T. Satyanarayana, **Y. Gandhi**, N. Veeraiah, **Journal of Alloys and Compounds**, 479 (2009) 549-556
16. *Dielectric dispersion in PbO-Bi₂O₃-B₂O₃ glasses mixed with TiO₂*, P. Venkateswara Rao, M. Srinivasa Reddy, V. Ravi Kumar, **Y. Gandhi**, N. Veeraiah, **Turkish Journal of Physics**, , 32 (2008) 341-356
17. *Nickel ion as a structural probe in PbO-Bi₂O₃-B₂O₃ glass system by means of spectroscopic and dielectric studies*, P. Venkateswara Rao, T. Satyanarayana, M. Srinivasa Reddy, **Y. Gandhi**, N. Veeraiah, **Physica B**, 403 (2008) 3751–3759
18. *Luminescence spectroscopy of Ti ions in Li₂O–CaF₂–P₂O₅ glass ceramics*, G. Murali Krishna, **Y. Gandhi**, N. Veeraiah, **Journal of Luminescence**, 128 (2008) 631–634.
19. *Features of the local structural disorder in Li₂O-CaF₂-P₂O₅ glass ceramics with Cr₂O₃ as nucleating agent*, G. Murali Krishna, **Y. Gandhi**, N. Veeraiah, **Physica B**, 403 (2008) 702–710.

20. *NiO* - induced crystallization and optical characteristics of $\text{Li}_2\text{O}-\text{CaF}_2-\text{P}_2\text{O}_5$ glass system, G. Murali Krishna, **Y. Gandhi**, N. Veeraiah, **Physica Status Solidi (a)**, 205, (2008) 177–187
 21. *Environment of Fe^{3+} ion and its influence on dielectric and spectroscopic properties of $\text{PbO}-\text{Nb}_2\text{O}_5-\text{P}_2\text{O}_5$ glasses*, N. Krishna Mohan, K. Sambasiva Rao, **Y. Gandhi**, N. Veeraiah, **Physica B**, 387 (2007) 213-226.
 22. *Study on the influence of TiO_2 on the insulating strength of $\text{ZnO}-\text{ZnF}_2-\text{B}_2\text{O}_3$ glasses by means of dielectric properties*, G. Naga Raju, **Y. Gandhi**, N. Srinivasa Rao, N. Veeraiah, **Solid State Communications**, 139 (2006) 64–69.
- * Papers included in the thesis