

Andhra Christian College, Guntur

Publications

Department of PHYSICS

1. Dr. P M Vinaya Teja

2. Role of chromium ion valence states in $\text{ZnO-As}_2\text{O}_3\text{-Sb}_2\text{O}_3$ glass system by means of spectroscopic and dielectric studies. *Materials Research Bulletin*, Volume 45, Issue 12, Pages 1783–1791, **December 2010 (Elsevier)**.
3. Effect of Bi_2O_3 proportion on physical, structural and electrical properties of zinc bismuth phosphate glasses. *Journal of Non-Crystalline Solids* Volume 35, Pages 3585–3591, **July 2011(Elsevier)**.
4. Vanadyl ions influence on spectroscopic and dielectric properties of glass network. *Journal of Molecular Structure* Volume1005, Pages 83–90, **August 2011 (Elsevier)**.
5. Optical and other spectroscopic studies of lead, zinc bismuth borate glasses doped with CuO. *Physica B* Volume,406 Pages 4366–4372, **August 2011 (Elsevier)**.
6. Effect of some VA group modifiers on R_2O_3 ($\text{R} = \text{Sb, Bi}$)– $\text{ZnF}_2\text{-GeO}_2$ glasses doped with CuO by means of spectroscopic and dielectric investigations. *Materials Chemistry and Physics* Pages 239– 248, **January, 2012 (Elsevier)**.
7. Structural and electrical properties of $\text{ZnF}_2\text{-Bi}_2\text{O}_3\text{-GeO}_2$ glasses doped with CoO. *Journal of Molecular Structure* Volume1014, Pages 119–125, **February 2012 (Elsevier)**.
8. Influence of manganese ions on spectroscopic and dielectric properties of $\text{LiF-SrO-B}_2\text{O}_3$ glasses. *Journal of Non-Crystalline Solids*, Volume 358, Pages 1391 – 1398; **April 2012 (Elsevier)**.
9. Structural impact of iron ions on BaBiBO_4 glasses: Spectroscopic and dielectric investigation. *Journal of Non-Crystalline Solids* Volume 358 Pages: 2597–2605, **June 2012 (Elsevier)**.
10. Influence of molybdenum ions on spectroscopic and dielectric properties of $\text{ZnF}_2\text{-Bi}_2\text{O}_3\text{-P}_2\text{O}_5$ glass. *Journal of Non-Crystalline Solids*, Volume 358, Pages 3372–3381; **October 2012 (Elsevier)**.
11. Structural changes in the $\text{ZnF}_2 - \text{Bi}_2\text{O}_3 - \text{GeO}_2$ glass system doped with Fe_2O_3 by spectroscopic and dielectric investigation. *Journal of Physics and Chemistry of Solids* Volume 74, Pages 963–970, **February 2013 (Elsevier)**.

12. Influence of alkaline earth oxides (R=Ca, Sr and Ba) on spectroscopic and dielectric studies of iron doped RO–Na₂O–B₂O₃ glasses. *Journal of Non-Crystalline Solids*, Volume 364 Pages 62–68, **February 2013 (Elsevier)**.
13. Influence of modifier oxide on dielectric dispersion and a. c. conduction phenomena of Li₂O–Sb₂O₃–GeO₂ glass system. *Journal of Non-Crystalline Solids*, volume 386 Pages 67–75, **October 2013 (Elsevier)**.
14. Spectroscopic properties of silver doped ZnF₂ – Bi₂O₃ – GeO₂ glass system *Mathematical Sciences International Research Journal: Volume 4 Issue 1 (2015)* ISSN 2278-8697.
15. Role of silver ion on the conduction properties OF ZnF₂ – Bi₂O₃ – GeO₂ GLASS SYSTEM. *Mathematical Sciences International Research Journal: Volume 5 Issue 2 (2016)* ISSN 2278- 8697
16. Influence of valence state of copper ions on structural and spectroscopic properties of multi-component PbO-Al₂O₃-TeO₂-GeO₂-SiO₂ glass ceramic system- a possible material for memory switching devices. *Optical Materials*, volume 73 Pages 7-15, July 2017(**Elsevier**).
17. Effect of Cr₂O₃ on the structural, optical and dielectric studies of LiF-SrOB₂O₃ glasses. *Journal of Non-Crystalline Solids*, volume 520 Pages 119428, **October 2019 (Elsevier)**.
18. The influence of Cu²⁺ ions on the ionic, electronic conductivity and optical characteristics of Li₂O-SrO-B₂O₃ system. *Journal of Non-Crystalline Solids*, volume 575 Pages 121210, **October 2021 (Elsevier)**.

2. Dr M Ratna Raju

1. Physical and Structural Characterization of Chromium Ions doped SrO-Li₂O-CaO-B₂O₃ (SLCB) Glasses. International Journal of Science and Research (IJSR). **Vol.4, Issue 8, August 2015.**
2. Physical and Structural Characterization of Manganese Ions doped SrO-Li₂O- CaO-B₂O₃ (SLCB) Glasses. International Journal of Scientific Engineering and Research (IJSER). **Vol.3, Issue.8, August 2015.**
3. EPR and Optical studies of SrO- Li₂O-CaO-B₂O₃(SLCB) Glasses doped with Manganese Ions. Indian Journal of Applied Research. **Vol. 5, Issue 10, Oct. 2015.**
4. EPR and Optical studies of SrO- Li₂O-CaO-B₂O₃ (SLCB) Glasses doped with Chromium Ions. International Journal of Advanced Research. Vol. 3, Issue 9, Oct. 2015.
5. Physical and structural characterization of copper ions doped SrO - Li₂O-CaO-B₂O₃(SLCB) Glasses. Mathematical Sciences International Journal. **Volume 5, Issue 1, (2016).**