**List of Papers Published in Journals**

1. **Synthesis and spectral characterizations of trivalent ions (Cr$^{3+}$, Fe$^{3+}$) doped CdO nanopowders**

2. **Room temperature ferromagnetism and optical properties of Cu$^{2+}$ doped ZnO nanopowder by ultrasound assisted solid state reaction technique**

3. **EPR and Optical studies of Cr(III) ions doped NaCaAlPO$_4$F$_3$ nanophosphor**

4. **Structural, optical and magnetic properties of Cr$^{3+}$ doped ZnO nanopowder**

5. **Sonochemical assisted synthesis and spectroscopic characterization of Fe$^{3+}$ doped ZnO diluted magnetic semiconductor**

6. **Synthesis and characterization of VO$^{2+}$ doped ZnO-CdS composite nanopowder**

7. **Optical and Structural Properties of Undoped and Mn$^{2+}$ doped Ca-Li Hydroxyapatite Nanopowders using Mechanochemical Synthesis**
*8. Synthesis, Structural and Optical Properties of undoped and Cu$^{2+}$ doped ZnO-CdS composite nanopowder

9. Structural and Optical Properties of CdO/ZnS core/shell nanocomposites

10. A Facile Synthesis and Spectral Characterization of Cu$^{2+}$ Doped CdO/ZnS Nanocomposite

11. Physical, Structural and Spectroscopic Investigations of Sm$^{3+}$ doped ZnO mixed alkali borate glass
    B. Sailaja, R. Joyce Stella, **G. Thirumala Rao**, B. Jaya Raja, V. Pushpa Manjari, R.V.S.S.N. Ravikumar: Journal of Molecular Structure (UK), Accepted (May-2015)

*12. Structural, optical and magnetic properties of Mn$^{2+}$-doped ZnO-CdS composite nanopowder

*13. Synthesis and characterization of Fe$^{3+}$ doped ZnO-CdS composite nanopowder

* The results presented in these papers are the part of the thesis
List of Papers Presented at National conference

1. Spectral characterization of Tennantite from Switzerland.

2. Preparation and Characterization of Mn$^{2+}$ doped CdSe Nanopolymer.

*3. Investigation on structural, optical and magnetic properties of Mn(II) ions doped ZnO/CdS nanocomposites.


5. Mixed Alkali Effect in Mn$^{2+}$ doped XLi$_2$O+(50-X)K$_2$O+50B$_2$O$_3$ (10≤X≤30) Glasses.


7. Optical and Luminescent Properties of LiCaAlF$_3$PO$_4$ nanophosphors.
8. Effect of vanadyl ions on structural, optical and magnetic properties of ZnO/CdS nanocomposites.


9. Effect of transition Metal Ions Doped ZnO Nanopowders by Novel Sonochemical Synthesis: Spintronic Applications


10. Cu²⁺ DOPED CdO/ZnS CORE/SHELL NANOCOMPOSITE: SYNTHESIS AND CHARACTERIZATION


* The results presented in these papers are part of the thesis
List of Papers Presented at International conference


* The results presented in these papers are part of the thesis