LIST OF PUBLICATIONS

1. Solution of the Spin Hamiltonian with Orthorhombic hf and g tensors (S=1/2) 1. Theory.
   V.P. Seth, A. Yadav and R.S. Bansal

2. ESR Study of Vanadium Ion in Potassium Succinate
   V.P. Seth, V.K. Jain, A. Yadav and R.S. Bansal

3. ESR of Vanadyl Ions in Li$_2$O.CdO.B$_2$O$_3$ Glasses.
   A. Yadav, V.P. Seth, V.K. Jain and K.K. Sharma

4. Solution of the Spin Hamiltonian with Orthorhombic hf and g-tensors (S=1/2).II. Application to V0$^{2+}$ Centres in Oxide Glasses.
   V.P. Seth, A. Yadav and R.S. Bansal

5. Electron Spin Resonance of Mn$^{2+}$ in Tl$_2$CO(SeO$_4$)$_2$.6H$_2$O Single Crystals.
   V.K. Jain, V.P. Seth, R.S. Bansal and A. Yadav

6. Rhombic Symmetry Crystalline Field and the Ground State Wavefunctions of Vanadyl Ion Complexes.
   A. Yadav, R.S. Bansal and V.P. Seth.

7. ESR and Optical Spectra of V0$^{2+}$ and Cu$^{2+}$ in K$_2$SO$_4$.ZnSO$_4$ Glasses.
   A. Yadav and V.P. Seth.

8. Electron Paramagnetic Resonance of Cu$^{2+}$ and V0$^{2+}$ Ions in Phosphate Glasses.
   A. Yadav and V.P. Seth.
. Electron Spin Resonance of \( \text{VO}^{2+} \) and \( \text{Cu}^{2+} \) in Lithium Borate Glasses.
A. Yadav, V.P. Seth and Prem Chand

3. ESR of Vanadyl Ions in Borate Glasses.
V.P. Seth, A. Yadav and Prem Chand.

1. Electron Spin Resonance and Optical Spectra of \( \text{VO}^{2+} \) and \( \text{Cu}^{2+} \) in \( \text{SrO}.\text{B}_2\text{O}_3 \) Glasses.
V.P. Seth and A.Yadav.

2. ESR of Vanadyl Ions in Borate Glasses.
A. Yadav, V.P. Seth and Prem Chand.

3. Electron Spin Resonance and Optical Spectra of \( \text{VO}^{2+} \) and \( \text{Cu}^{2+} \) in \( \text{ZnO}.\text{B}_2\text{O}_3 \) and \( \text{PbO}.\text{B}_2\text{O}_3 \) Glasses.
A. Yadav, V.P. Seth and S.K. Gupta.

4. Electron Spin Resonance of \( \text{VO}^{2+} \) in \( \text{Li}_2\text{O}.\text{PbO}.\text{B}_2\text{O}_3 \) Glasses.
V.P. Seth, A. Yadav and Ashok Kumar.
Journal of Non-Crystalline Solids (Accepted for Publication).

5. Electrical Conductivity and ESR of Lithium Borate Glasses Containing mixed transition Metal Oxides.
V.P. Seth, A. Yadav and S.K. Gupta.
Journal of Materials Science (Accepted for Publication).

5. Effect of Copper Ions on Electrical Conductivity in \( \text{K}_2\text{SO}_4.\text{ZnSO}_4 \) Glasses Containing Vanadium Ions.
V.P. Seth and A. Yadav.
Journal of Materials Science (Communicated).

Not included in this thesis.