

**Research Interests:**

- Stability of Amino acids/ proteins in presence of co-solvents
- Preparation of biocompatible Ionic liquids
- Volumetric analysis with ionic liquids
- Polymer with MOF's
- Nano chemistry
- Polymer with protein
- Trace metal / Heavy Metal Analysis
- Design and development of equipment in chemical engineering, also exploration in the development of new useful methodologies in engineering chemistry and physical chemistry.

**Professional Competence**

- Preparation of biocompatible Ionic liquids.
- Ability to deal with people diplomatically, adaptability, capability of facing challenging jobs, team spirit and smart working nature at work.
- Working knowledge of SEM, TEM, FTIR, UV, solubility's, Densitometer and Transfer free energy.
- Capable of carrying independent and collaborative research.
- Strong knowledge of chemistry software-MS Office, Excel, Origin, Chem Draw, Power Point.