JCP 203 (Aug) (0-1-3)
Laboratory I- Organic and Inorganic Chemistry Lab
Instructor: Aruna Sathyamurthy

Organic Chemistry Lab

- Synthesis of anthracene maleic anhydride adduct through the Diels Alder reaction by chemical method
- Synthesis of aspirin
- Extraction of caffeine from tea leaves
- Acetylation of ferrocene and its purification by column chromatography

Inorganic Chemistry Lab

- Synthesis and characterization of porous silica materials and to also study the change in the pore size distribution by altering the temperature of hydrothermal treatment.
- Hydrothermal synthesis of ZnS microspheres.
- Synthesis of MoS_2 nanoparticles on reduced graphene oxide (RGO) sheets suspended in solution which serves as an advanced catalyst for Hydrogen Evolution Reaction (HER)
- Preparation of the following inorganic complexes:
  - Bis (acetyl acetonato) copper (II)
  - Tris (acetyl acetonato) iron (III)
  - Tris (acetyl acetonato) manganese (III)
- Synthesis and characterization of Mn-Anderson Polyoxometallate complex with ligand TRIS $(TBA)_3\,[(MnMo_6O_{18}\,\{(OCH_2)_3\,CNH_2\}_2]$