



Dr. L. Devaraj Stephen

M.Sc., PhD.

Assistant Professor, Chemistry

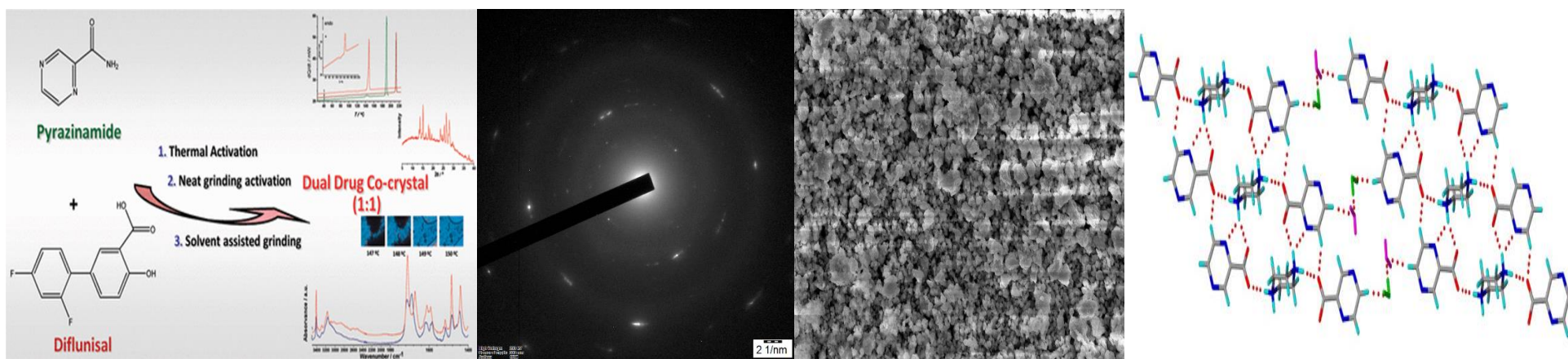
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Areas of Research

- **Crystal Engineering:** Crystal growth, Polymorphism, Co-crystal
- **Inorganic Photochemistry:** Inorganic complexes, Electron transfer, Photo reduction
- **Nanomaterials:** Synthesis, properties, characterisation
- **Analytical Skills:** FT-IR, NMR, UV-visible, SEM, TEM, Single crystal XRD





Dr. J. Krishnamurthi

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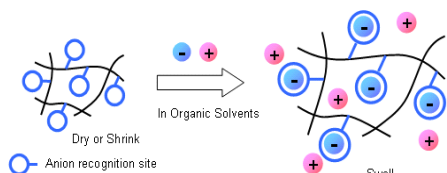
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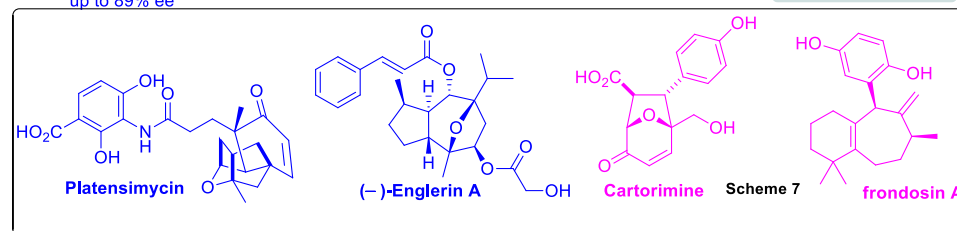
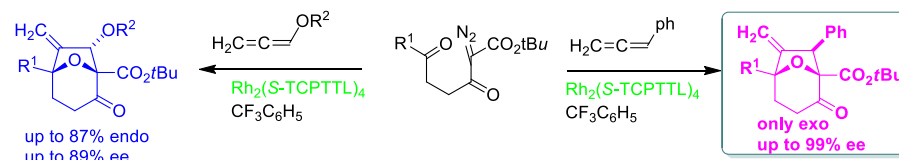
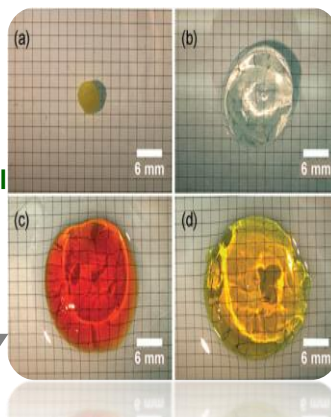
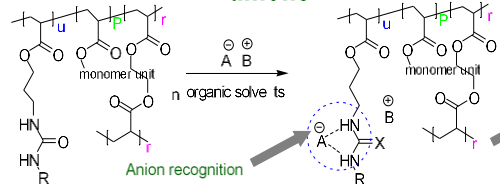
Areas of Research

- **Organic Synthesis:** Asymmetric Catalysis, Biomolecules
- **Developmental Methodology:** Synthesis of heterocycles
- **Organic Materials:** Polymeric gels, polyelectrolytic sensors, hydrogels
- **Analytical Skills:** NMR, 2D NMR, HPLC, Mass, Single crystal XRD

Anion Induced Swelling Activity of Polymer Gel



The anion recognition sites entrap the external anions





Dr. M. Soundarrajan

M.Sc., M.Phil., PhD.

Assistant Professor, Chemistry

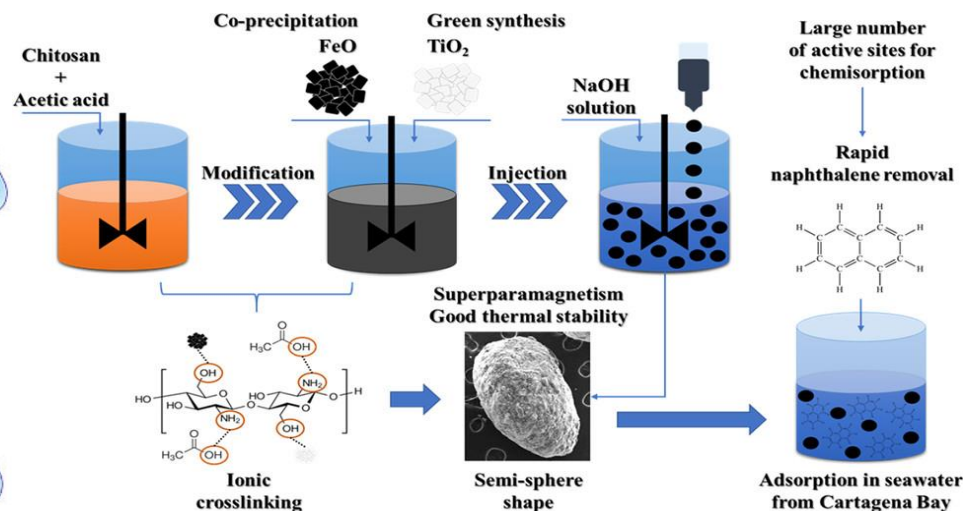
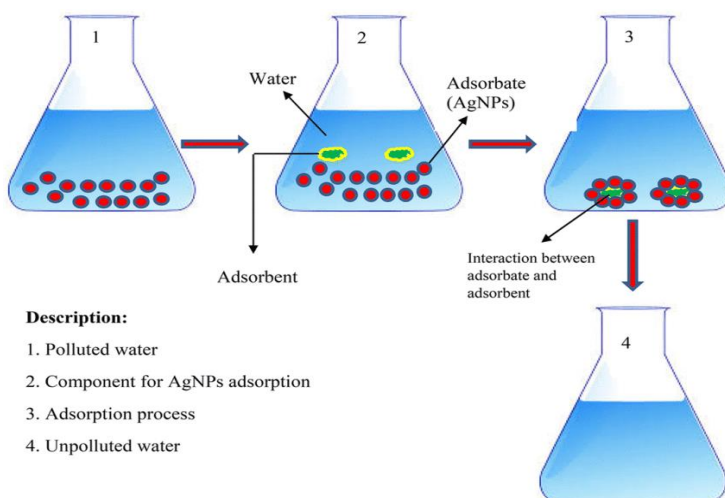
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Areas of Research

- **Environmental Science:** Wastewater Treatment, Bio-sorbent materials
- **Adsorbent:** Chitosan, Vermiculite, Penicillin, Composites
- **Adsorption study:** Isotherm study and Kinetic study
- **Analytical Skills:** FT-IR, XRD, UV-visible, SEM, TEM





Dr. N. Jayaprakash

M.Sc., M.Phil., PhD.

Assistant Professor, Chemistry

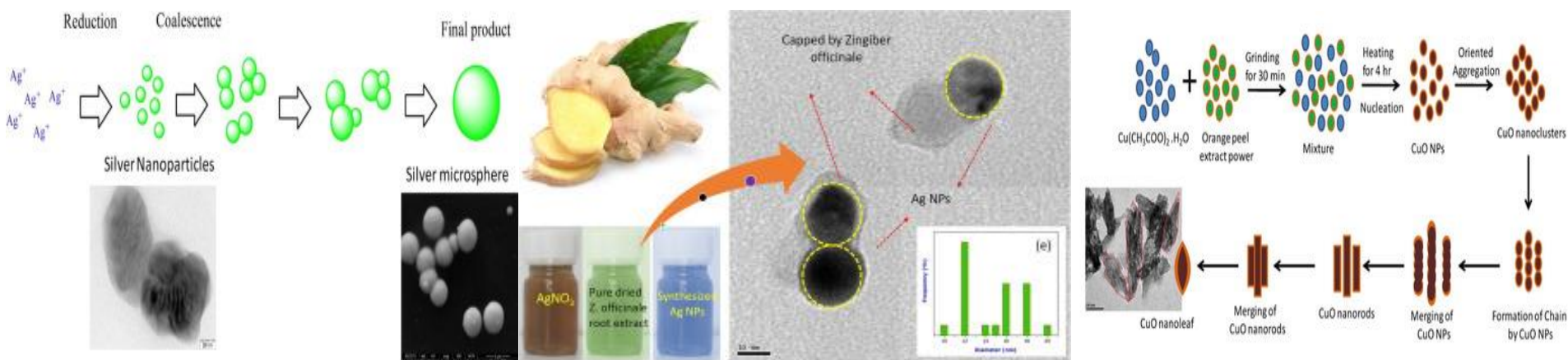
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Areas of Research

- **Nanomaterials:** Silver, Gold, CdO, ZnO, CuO, CaO nanoparticles, nanocomposites
- **Environmental Science:** Photocatalytic degradation
- **Medicinal & Drug delivery Applications:** Antibacterial, cytotoxicity
- **Nanomaterials:** Synthesis, properties, characterisation
- **Analytical Techniques:** FT-IR, UV-visible, XRD, PL, SEM, TEM





Mr. V. Arivalagan

M.Sc., M.Phil., (PhD)

Assistant Professor, Chemistry

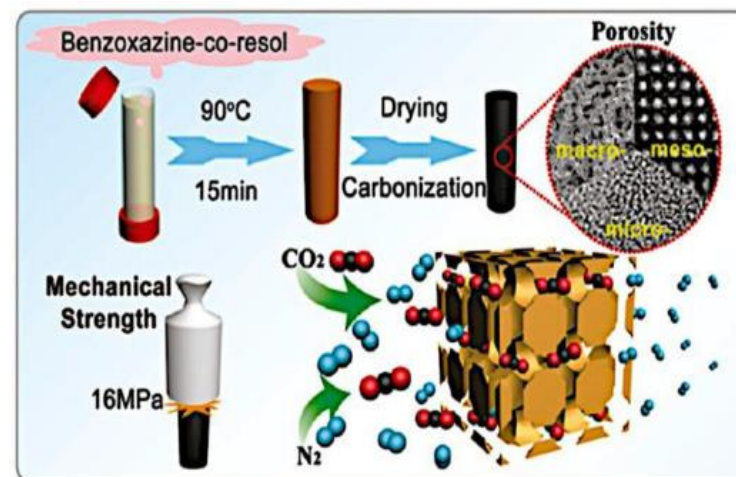
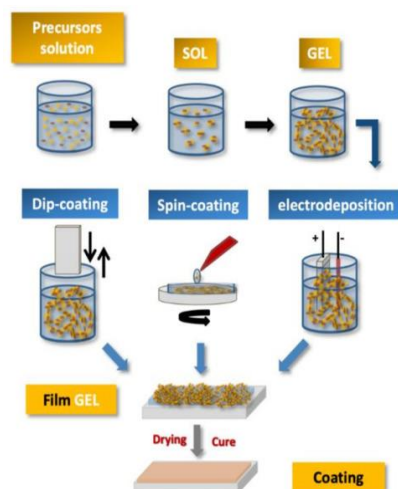
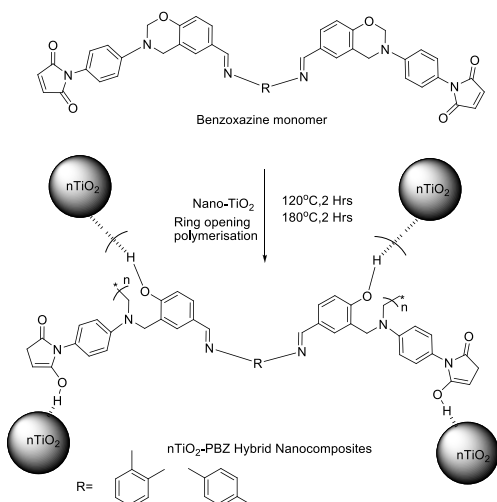
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Areas of Research

- **Material Science:** Organic materials, Inorganic materials, Polymer nanocomposites
- **Polymer nanocomposites:** Preparation, properties, characterisation
- **Nanomaterials:** Synthesis, properties, characterisation
- **Analytical Skills:** FT-IR, NMR, UV-visible, SEM, TEM, XRD





Dr. S.G.Gunasekaran

M.Sc., PhD.

Assistant Professor, Chemistry

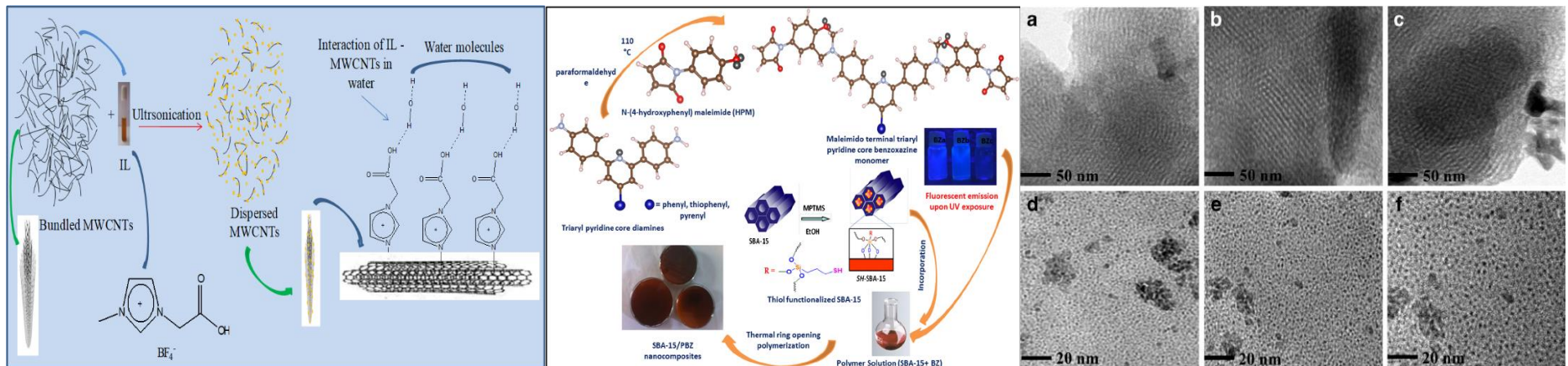
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Areas of Research

- **Engineering Materials:** Thermosetting polymers, Organic-inorganic hybrid polymers, Polymer nanocomposites
- **Nanomaterials:** Nanosilica, nanotitania, carbon nanotubes
- **Environmental Applications:** CO₂ capture, waste water treatment
- **Analytical Techniques:** FT-IR, NMR, UV-visible, Photoluminescence, XRD, Raman spectroscopy, SEM, AFM, Contact angle, TEM





Dr. P. Maheswari

M.Sc., PhD.

Assistant Professor, Chemistry

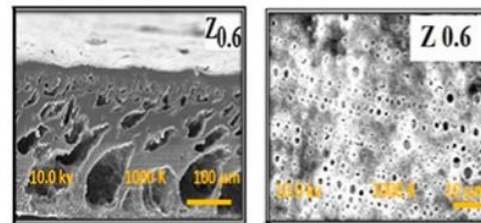
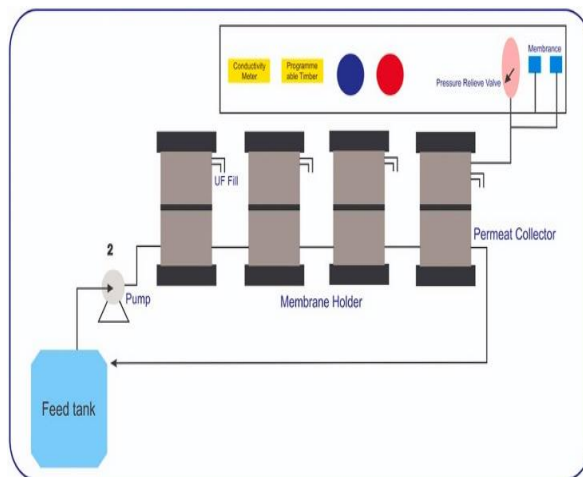
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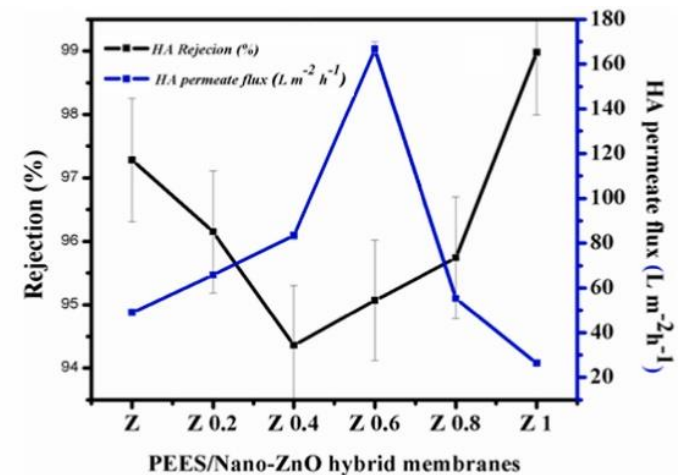


Areas of Research

- **Membrane Science:** Porous membranes, gas separation, Waste water Treatment, Anti fouling
- **Thin films:** Multilayer thin films, Antibiotic - Conjugated Polymer Thin Film
- **Biocompatible Coatings:** Protein- Repellent coatings, surface chemistry
- **Hemodialysis:** Hydrophilicity, Blood compatibility, Dialysis
- **Nanomaterials:** Novel materials with functional properties-conductive, optical, tribological, barrier, protective, antifouling coatings



Poly(ether ether sulfone) membrane modified with zinc oxide nanoparticles





Ms. M. Meera

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Areas of Research

- **Material Science:** Polymer nanocomposites, Thermosetting polymers, Hybrid organic polymers, Inorganic materials
- **Nanocomposites:** Preparation, properties, characterisation
- **Nanomaterials:** Synthesis, properties, characterisation
- **Analytical Skills:** UV-visible, FT-IR, Mass, SEM, XRD

