

Name Dr. S. Mayadevi

Division Chemical Engineering and Process Development

Email s.mayadevi@ncl.res.in

Phone 020-25902167

Fax 020-25902612/2676



- Education and experience
- Ph. D. Pune University
  - M.Tech. IIT Madras (First Rank)
  - B.Sc. Eng. Calicut University (First Class with Honours)
  - DIM Symbiosis (2<sup>nd</sup> Rank)
  - CDAC's Diploma in Web-enabled Technologies  
CDAC-URDIP
- Achievements
- First Rank in M Tech from IIT Madras
  - Distinguished visiting professorship by the Indian National Academy of Engineers (INAE)
  - Recognized as guide by Mumbai University, Pune University and Kolhapur University
- Research Subjects
- Physical Chemistry
  - Material Science
  - Catalysis and Inorganic Chemistry
  - Chemical Engineering
- Research Area
- Adsorption and adsorbent materials
  - Catalysis, catalyst deactivation
  - Kinetics of reactions
  - Membrane based processes, hybrid processes
  - Pollution abatement
- Recent publications
- A. Mandal, V.S. Patil and S. Mayadevi, "Alginate and hydrotalcite-like anionic clay composite systems: Synthesis, Characterization and Application Studies" **Microporous and Mesoporous Materials** (In print)
  - Atul K. Prashar, S. Mayadevi, P.R. Rajamohanan, and R. Nandini Devi, "In-situ encapsulation of Pt nanoparticles in mesoporous silica: Synthesis, characterisation and effect of particle size on CO oxidation" **Appl. Catal. A: General** 403 (2011) 91-97
  - S. Mandal and S. Mayadevi, "Fluoride contamination of water: Remediation by adsorption" Book chapter in "**Fluoride: Properties, Applications and Environmental Management**" Nova Science Publishers, NY 159-176 (2011)
  - P.V. Surse, S. Waghlikar, S. Mayadevi and S. Sivasanker, *Alkylation of anisole with 1-hexene and 1-hexanol over zeolite H-beta*. **Reac. Kinet. Mechanisms and Catal.** 103 (2011) 481 – 491
  - J. Vijayakumar, Suresh K Chikkala, Sujata Mandal and S. Mayadevi. *Adsorption of cresols on zinc-aluminium hydroxides—A comparison with zeolite X*. **Sep. Sci. Technol.** 46 (2011) 483 – 488