Curriculum Vitae

Name: Dr. Aarti Mulay
Designation: Assistant Professor,
Department of Plastic & Polymer Engineering
E-mail: aarti.mulay@mit.asia
Web identifiers:
Google Scholar: https://scholar.google.co.in/citations?user=DlW3HvIAAAAJ&hl=en&oi=sra
LinkedIn Profile: https://www.linkedin.com/in/dr-aarti-mulay-0a379b21/
Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=57198889817
Orchid ID: 0000-0001-6005-7023

AcademicCredentials

- **PhD** in Chemical Engineering, Institute of Chemical Technology, Mumbai.
- **M. Tech** in Chemical Engineering, UDCT, NMU Jalgaon.
- **BE** in Chemical Engineering, Jawaharlal Nehru Engineering College, Aurangabad.

Key Research Areas: Process Intensification and Reaction Kinetics

Experience

- 27.5 years of Teaching experience and
- 1 yr of Industrial Experience

Membership of Professional Bodies

- Life Member, International Society for Research and Development, UK
- Life member of Indian Society for Technical Education, New Delhi.

Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference organized

- Convener for 'Techno-Minds 2k19' a project competition organised on 4-5th Oct 2019
- Treasurer for National Conference 'Materials for Advanced Technology & Applications' MATA-2019 organised on 22-23rd August 2019
- Organizing Secretary at National Conference 'Materials for Advanced Technology & Applications' MATA-2016 organised on 20-21st Sept 2016.
- Organizing committee member for National Conference on "Recent Advances in Polymers on 17-18 Aug 2010
- Organizing committee member for National symposium 'Polyxplore' on 1-2 March 2011.

List of Publications/ Patents/ Book Chapters/Books

- Mulay, A., & Rathod, V. K. (2024). Kinetics of microwave-assisted synthesis of ethyl hexanoate by using heterogeneous catalyst: process intensification and energy consumption analysis. *Journal of Microwave Power and Electromagnetic Energy*, *58*(1), 36-52.
- Mulay, A., & Rathod, V. K. (2022). Kinetics, mass transfer, and thermodynamics of Ethyl Hexanoate synthesis using heterogeneous catalyst. *Chemical Data Collections*, *41*, 100916.
- Mulay, A., & Rathod, V. K. (2022). Ultrasound-assisted synthesis of ethyl hexanoate using heterogeneous catalyst: Optimization using Box-Behnken design. *Journal of the Indian Chemical Society*, *99*(8), 100573.
- Mulay, A., & Rathod, V. K. (2021). Microwave-assisted heterogeneous esterification of dibutyl maleate: Optimization using response surface methodology. *Chemical Data Collections*, *34*, 100740.
- Mulay, A., & Rathod, V. K. (2021). Kinetics of ultrasound-assisted esterification of maleic acid and butanol using heterogeneous catalyst. *International Journal of Chemical Kinetics*, *53*(1), 84-94.
- Mulay, A., & Rathod, V. K. (2017). Esterification of maleic acid and butanol using cationic exchange resin as catalyst. *Journal of Chemical Sciences*, *129*, 1713-1720.

NPTEL/Coursera/Other Certification

NPTEL Certification

- Four Weeks Course on *Teaching and Learning in Engineering (TALE)* in February-March, 2019.
- Four Weeks Course on *Introduction to Research* January – February, 2018.

COUSERA Certification

- Completed ‘Excel Skills for Business: Intermediate an online non-credit course authorized by Macquarie University and offered through Coursera.