

Name: Dr. Sushama Mohan Kale

Designation: Assistant Professor

Academic Background

Degree	Subject	Year	University
Ph.D.	Chemistry - Catalysis	2003	NCL, S.P. Pune University
M.Sc.	Inorganic Chemistry	1993	S.P. Pune University
B.Sc.	Chemistry	1991	S.P. Pune University

Experience

Position	Organisation	Period
Assistant Professor	P.E. Society's Modern College of	July 2005 -
	ASC, Ganeshkhind, Pune.	
Research Associate	Institute of Bioinformatics and	Nov 2003 – Aug 2004
	Biotechnology (IBB), SPPU, Pune.	
Senior Research Fellow (SRF)	National Chemical Laboratory, Pune.	Apr 1997 – Mar 2000
Project Assistant	National Chemical Laboratory, Pune.	May 1994 – Mar 1997

Patents

- 1) An improved process for the preparation of halocumenes. A. P. Singh and S. M. Kale, US Patent No. 5,892,138 (1999).
- 2) An improved process for the preparation of halocumenes. A. P. Singh and S. M. Kale, Indian Patent No. 422/DEL/1997

Selected Publications

- 1. Selective chlorination of 4-chlorotoluene using zeolite catalyst. A.P. Singh, S. Sharma and S. M. Kale, Journal of Molecular Catalysis, A: Chemical, 127 (1997) 101.
- 2. Para-selective chlorination of bezyl chloride to 4-chlorobenyl chloride over zeolite catalysts. A. P. Singh, S. M. Kale, Catalysis Today, 49 (1999) 245.
- **3.** Chlorinikaran Abhikriyaon me Zeolite Utprerak ka Yogdan. *S. M. Kale* and *A. P. Singh* Proceedings of the National seminar on "Catalysis and Environment" (in Hindi, held at NCL, Pune) (Oct. 1999) 3.
- **4.** Para-selective chlorination of cumene with sulfuryl chloride over zeolite catalysts. *S. M. Kale* and *A. P. Singh*, **Applied Catalysis**, 228 (2002) 1.
- **5.** Selective preparation of 4,4'-dichloridiphenylmethane over zeolite K-L catalyst using sulfuryl chloride. *S. M. Kale* and *A. P. Singh*, **Journal of Molecular Catalysis**, **A: Chemical**, 184. (2002) 399.
- 6. Liquid phase bromination of ethyl benzene over zeolite catalysts. A. P. Singh and S. M. Kale, Bulletin of Catalysis Society of India, 1 (2002) 73.

Courses Taught

- M.Sc. Organic Chemistry
 - 1) Molecular Symmetry and Chemistry of p-block Elements
 - 2) Co-ordination Chemistry and Bioinorganic Chemistry
 - 3) Practical Inorganic Chemistry
- T.Y. B.Sc. Chemistry
 - 1) Inorganic Chemistry
 - 2) Analytical Chemistry
 - 3) Industrial Chemistry

Organizational Work

- Internal Examination Committee (2009 13, 2018 -19) Member and In-charge
- **Prospectus Committee** (2009 -13, 2018) Member and In-charge
- Environmental Studies Course Committee (2019) Asst. Coordinator
- **Document Validation and Verification** (2017) Document Officer