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Subjects (i) Catalysis & Inorganic, (ii) Materials Chemistry,
(iii) Theory, computational & Modeling

Professional experience

- 2002 to date : Scientist, Catalysis Division, NCL, (CSIR India), Pune, INDIA
- 2007 to 2008: Visiting Researcher – CNRS, Montpellier, FRANCE
- 2000 to 2002: Faculty, Dept. of Chemistry, Pune University, Pune, INDIA

Research and other experiences

- Project Investigator/Co-investigator in Academic, Network & industrial projects : NMITLI (CSIR), CoESC, EMPOWER (CSIR), GTP (CSIR-AYUSH-ICMR) / Consultancy services – Lupin Industries Ltd, Tata Chemicals India Ltd., etc.,
- Faculty – Institutional & National Orientation Program for Ph.D students
- Ph.D Course Coordinator & Resource person : Catalysis Division NCL
- Academic programs - Syllabus setter for PG chemistry – Pune University

Research Area

- Molecular self assembly, Bio-inorganic nanohybrid materials, Drug delivery systems
- *ab-initio* Quantum Chemistry (DFT) based Computational Studies on Catalytic processes and Catalytic Materials, Metal oxides and Transition metals
- Zeolites, Silicates, Oxides and Nano- and subnano- metal clusters, High temperature dense phases and ceramics
- Concerted experimental and computational approach for molecular to lattice level structure-property correlations

Selected recent publications (last 5 years)

- *Micro & Nano Letters*, Vol. 7, Iss. 1, pp. 1–4, **2012**
- *J. Am. Chem. Soc.*, 133 (42), pp 16815–16827, **2011**
- *Chem. Lett.*, 39 (10), 1078-1080, **2010**
- *Micropor. Mesopor. Mater.*, 135, 82-89, **2010**
- *Micropor. Mesopor. Mater.*, 122, 105-113, **2009**
- *J. Nanosci. Nanotechnol.*, 8, (8) 3909-3913, **2008**
- *J. Mater. Chem.*, 17(37), 3910-3914, **2007**
- *Crystal Growth & Design*, Vol. 6, No. 3, 743, **2006**