Name: Kavita Joshi

Division: Physical and Materials Chemistry Division

Email: k.joshi@ncl.res.in

Phone: 020 25902476

webpage: http://academic.ncl.res.in/k.joshi

Education and experience: Sr. Scientist: 2014 -- CSIR-NCL, Pune
Scientist Fellow: 2010 -- 13, CSIR-NCL, Pune
Research Associate: 2005 -- 09 University of Pune
Post-Doc: 2004 -- 05 CEA-Grenoble, France
Ph.D. (2004) University of Pune

Research subjects: Computational Materials Science,
Applications of Density Functional Theory

Research Interests: Heterogeneous Catalysis,
Energy Storage Materials, Li-ion batteries
Reactivity at Nanoscale,
Physics and Chemistry of Layered Materials
Metal Clusters

Recent publications:

1. Terahertz Spectroscopy and Solid-State Density Functional Theory Calculations of Cyanobenzaldehyde Isomers. J. Dash, S Ray, K. Nallappan,V. Kaware N. Basutkar R. G. Gonnade, A. V. Ambade,K. Joshi, and B Pesala, J. Phys. Chem. A (2015)

2. Scaling up the shape: A novel growth pattern of gallium clusters.
V. Kaware and K. Joshi, J. Chem. Phys. **141** 054308 (2014)

3. Correlation between the variation in observed melting temperatures and structural motifs of the global minima of gallium clusters: An ab initio study.
A. Susan, A. Kibey, V. Kaware, and K. Joshi, J. Chem. Phys. **138** 014303 (2013).

4. Rationalizing the role of structural motif and underlying electronic structure in the finite temperature behavior of atomic clusters,
A. Susan and K. Joshi, J. Chem. Phys.**140,** 154307 (2014)

5. Precise correlation energies in small parabolic quantum dots from configuration interaction,
S. A. Blundell and K. Joshi, Phys. Rev. B **81**, 115323 (2010)