

## List of Publications

- (1) **S. Sarkar**, S. Shil, S. Paul and A. Misra, On protonation and methylation of benzene: a B3LYP DFT based study, *J. Mol. Struct. (THEOCHEM)* **916**, 154-158 (2009).
- (2) S. Shil, D. Bhattacharya, **S. Sarkar** and A. Misra, Performance of the Widely Used Minnesota Density Functionals for the Prediction of Heat of Formations, Ionization Potentials of Some Benchmarked First Row Transition Metal Complexes, *J. Phys. Chem. A* **117**, 4945-4955 (2013).
- (3) **S. Sarkar**, S. Shil and A. Misra, DFT based study on the mechanism of an unexpected reaction of aldehydes with 1, 3-dicarbonyl compounds, *J. Ind. Chem. Soc.* (Accepted 2014).
- (4) **S. Sarkar**, P. Ghosh, S. Das, Regio-controlled nitration of 4-quinolones: Convergence of theoretical and experimental findings (Communicated).