List of publications

Papers published in journals:

1. A green synthesis of Pd nanoparticles supported on modified montmorillonite using aqueous Ocimum sanctum leaf extract: A sustainable catalyst for hydrodechlorination of 4-chlorophenol.
   *RSC Advances*, **2016**, 6, 110011-110018.

2. Stabilized Fe$_3$O$_4$ magnetic nanoparticles into nanopores of modified montmorillonite clay: A highly efficient catalyst for Baeyer-Villiger oxidation under solvent free condition.

3. Functionalized montmorillonite supported rhodium complexes: Efficient catalysts for carbonylation of methanol.

4. Microwave assisted green synthesis of Pd$^0$ nanoparticles supported on montmorillonite using glycerol as reductant: A sustainable catalyst for the semihydrogenation of phenylacetylene. (Being communicated)
List of publications

Abstract of the papers published in Conference / Proceedings / Symposium / Seminar:

   *Recent Developments in synthesis and catalysis (RDSC-17),* 10-11 March, 2017, Department of Chemistry, Dibrugarh University, Dibrugarh, Abs. No. PP-45.

   **P. K. Saikia, B. J. Borah, P. P. Sarmah, L. Saikia, D. K. Dutta**

3. Modified montmorillonite supported Pd(0) nanoparticles: An efficient and reusable catalyst for hydrogenation of nitroarenes under mild reaction conditions in water medium.

4. Synthesis and Stabilization of Fe₃O₄ magnetic nanoparticles into Modified Montmorillonite Clay: A highly active catalytic system for Baeyer-Villiger oxidation.
   **P. K. Saikia, B. J. Borah, P. P. Sarmah, D. K. Dutta.**
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