

Appendix

List of Publications

(Publications Nos. 1, 2, 3 and 4 included in the Thesis)

1. **Hasimur Rahaman**, Anupam Nath, Rimi Paul, Mahuya Sengupta and Sujit Kumar Ghosh, *RSC Adv.*, 2016,
‘Fe₃O₄–Mn₃O₄ Nanocomposites with Moderate Magnetism for *In-vitro* Cytotoxicity Studies on Macrophages’
2. **Hasimur Rahaman** and Sujit Kumar Ghosh, *RSC Adv.*, 2016, **6**, 4531-4539.
‘Soft-templated Synthesis of Mn₃O₄ Microdandelions for the Degradation of Alizarin Red under Visible Light Irradiation’
3. **Hasimur Rahaman**, Radha M. Laha, Dilip K. Maiti and Sujit Kumar Ghosh, *RSC Adv.*, 2015, **5**, 33923-33929.
‘Fabrication of Mn₂O₃ Nanorods: An Efficient Catalyst for Selective Transformation of Alcohols to Aldehydes’
4. **Hasimur Rahaman**, Koushik Barman, Sk Jasimuddin and Sujit Kumar Ghosh, *RSC Adv.*, 2014, **4**, 41976-41981.
‘Bifunctional Gold–Manganese Oxide Nanocomposites: Benign Electrocatalysts toward Water Oxidation and Oxygen Reduction’
5. Mohammed Ali, **Hasimur Rahaman**, Sudip Kumar Pal, Nikita Kar and Sujit Kumar Ghosh, *RSC Adv.*, 2015, **5**, 41780-41785.
‘Submicron ZnO Raspberries as Effective Catalysts for Fries Rearrangement’
6. Mohammed Ali, **Hasimur Rahaman**, Dewan S. Rahman, Surjatapa Nath and Sujit Kumar Ghosh *Cryst. Eng. Commun.* 2014, **16**, 7701–7710.
‘Water/n-Heptane Interface as a Viable Platform for Self-assembly of ZnO Nanospheres to Nanorods’
7. Mohammed Ali, Sudip Kumar Pal, **Hasimur Rahaman** and Sujit Kumar Ghosh, *Soft Matter*, 2014, **10**, 2767-2774.
‘Interfacial Assembly of ZnO Quantum Dots into Giant Supramolecular Architectures’

List of Seminar/Conference /Symposium/Workshops Attended

1. Presentation of paper entitled “Soft-templated Fabrication of Mn_3O_4 microdandelions: Effective visible light photocatalyst for the degradation of alizarin red” in the national conference, ‘MRSI North-East Symposium on Advanced Materials for Sustainable Application’ organized by CSIR-North East Institute of Science and Technology, Jorhat from 18-21st February, 2016.
2. Presentation of paper entitled “Synthesis of Mn_2O_3 nanorods: An efficient catalyst for selective transformation of alcohol to aldehyde” in the national conference on ‘Current Perspectives on Research on Chemical Sciences’ in Department Chemistry, Assam University, Silchar on 25 - 26th March, 2015.
3. Participants in the three days National Lecture Workshop on ‘Recent Trends in Synthesis of Chemical Compounds and their Application in Science and Technology’ organized by NIT, Silchar, from 5 - 7th May 2014.
4. Participants in the International Conference on ‘Glocal Crisis and Environmental Governance’ (ICGCEG-2013) in North-Eastern Region of India organized by the Department of Biotechnology and Department of Economics, Assam University, during 11-13th November, 2013.
5. Presentation of paper entitled “Soft-templated Synthesis of Fluorescent Mn_3O_4 Superstructures” in the International Conference on Nanotechnology (ICNT-2013) organized by Haldia Regional Centre, Indian Institute of Chemical Engineers Department of Chemical Engineering, Haldia Institute of Technology during 25th - 26th October, 2013
6. Presentation of paper entitled “Synthesis and Characterization of Morphologically Tunable Manganese Oxide using Dye-Surfactant Assembly as Soft Template” in the International Conference on Material Science (ICMS-2013) organized by Department of Physics, Tripura University. Suryamaninagar-799022, Tripura during 20 - 21st July, 2012.