

List of Publications

1. **Sarkar, C.** and Dolui, S. K. Synthesis of copper oxide/reduced graphene oxide nanocomposite and its enhanced catalytic activity towards reduction of 4-nitrophenol. *RSC Advances*, 5(75):60763-60769, 2015.
2. **Sarkar, C.**, Bora, C., and Dolui, S. K. Selective dye adsorption by pH modulation on amine-functionalized reduced graphene oxide–carbon nanotube hybrid. *Industrial & Engineering Chemistry Research*, 53(42):16148-16155, 2014.
3. **Sarkar, C.**, Nath, J., Bhuyan, S., and Dolui, S. K. Multifunctional Ternary Nanocomposites of Ni/Polypyrrole/Reduced Graphene Oxide as Supercapacitor and Electrocatalyst in Methanol Oxidation. *ChemistrySelect*, 4(9): 2529-2537, 2019.
4. **Sarkar, C.**, Doley, S., Das, D., and. Copper oxide nanoparticles decorated on the surface of reduced graphene oxide as an electrocatalyst for methanol electro-oxidation (Communicated).
5. **Sarkar, C.**, Bhattacharjya, S., Handique, J., and Dolui, S. K Photocatalytic degradation of dye over zirconium oxide supported on sulfonated graphene under visible light (Communicated).
6. Bora, C., **Sarkar, C.**, Mohan, K. J., and Dolui, S. K. Polythiophene/graphene composite as a highly efficient platinum-free counter electrode in dye-sensitized solar cells. *Electrochimica Acta*, 157, 225-231, 2015.
7. Nath, J., **Sarkar, C.**, and Dolui, S. K. Artificial Nacre-based Chitogen-graphene oxide-Mg hydrogel with significant mechanical strength and shape memory effect (Under review).
8. Doley, S., Sarmah, A., **Sarkar, C.**, and Dolui, S. K. In situ development of bio-based polyurethane-blend-epoxy hybrid materials and their nanocomposites with modified graphene oxide via non-isocyanate route. *Polymer International*, 67(8), 1062-1069, 2018.

Paper presented in Conferences

1. Chandrama Sarkar, S. K. Dolui, “*Photocatalytic degradation of dye over zirconium oxide supported on sulfonated graphene under visible light*”. Poster presented at International Conference on Advancement in Science & Technology, (ICAST-2018), Visva-Bharati, Santiniketan, India, 3, 4 September, 2018
2. Chandrama Sarkar, S. K. Dolui, “*Ni nanoparticles supported on polypyrrole-reduced graphene oxide as electrocatalyst towards direct methanol fuel cells*”. Oral presented in 104th Indian Science Congress, Sri Venkateswara University, India, 2017.
3. Chandrama Sarkar, S. K. Dolui, “*Synthesis of copper oxide-reduced graphene oxide nanocomposites and its enhanced catalytic activity towards reduction of p-nitrophenol*”. Oral presented in National Seminar on UGC-SAP National Conference on Contemporary Developments, Dept. of Chemical Sciences, Tezpur University, 23,24 November, 2015.
4. Chandrama Sarkar, S. K. Dolui, “*Selective dye adsorption on p-phenylenediamine functionalized reduced graphene oxide-carbon nanotube hybrid*”. Presented a poster in 102nd Indian Science Congress, University of Mumbai, India, 3-7 January, 2015.
5. Chandrama Sarkar, S. K. Dolui, “*Selective dye adsorption by pH modulation on amine functionalized graphene oxide-carbon nanotube hybrid*”. Poster presented in 8th Mid-Year Chemical Research Society of India (CRSI) National Symposium of Chemistry, NEIST, Jorhat, Assam, India, 10-12 July 2014.