



Dr. Dibakar Deb
Associate Professor



Area of Research Interest:

- Organic Synthesis, Phase Transfer Catalyst
- Green Chemistry
- Environmental Chemistry

Completed Projects:

UGC Minor research project on *Assessment of heavy metals and physico chemical parameters of water samples of the vicinity of the municipality dumping sites of Karimganj District, Assam, India.*

Collaborative work:

1. Assessment of heavy metals in surface water collected from the vicinity of Karimganj municipality dumping site.

Assessment of heavy metals in the ground water and soil collected from in and around the Silchar Municipality open dumping site at Meherpur, Silchar, Cachar

In collaboration with Dept. of CHEMISTRY, G.U. and NGO, Voice of Environment.

2. Identification and characterization of fungi in the soil samples collected from in and around the Silchar Municipality open dumping site at Meherpur, Silchar, Cachar in collaboration with Dept. BOTANY and BIOTECHNOLOGY, Karimganj College.

List of Publications:

1. Arsenic contamination in ground water is a serious threat in the North Karimganj block of Karimganj district, Southern part of Assam, India, Sumita Paul Purkayastha, Moharana Choudhury, Dibakar Deb and Chinmoy Paul, *J. Chem. Pharm. Res.*, 7(8), 371-378, 2015.
2. Preliminary Physico-Chemical Study of the water of river Kushiara at Karimganj, Assam, India Sumita Paul Purkayastha, Arnab Das Choudhury and Dibakar Deb, *J. Sci. forum*, 4(1), 37-43, 2015.
3. Hydrogenperoxide in the Oxidation of Benzophenone: Use of Peroxo Complex of Molybdenum and Kinetic Study, Mohona Chakrabarty and Sumita Paul Purkayastha, *J. Sci. forum*, 4(1), 37-43, 2015.
4. Preliminary Physico-chemical study on the pollution potential of river longai at Karimganj, Assam (India), Dibakar Deb, Arnab Das Choudhury and Sumita Paul Purkayastha, *J.App.Fund. Sci.*, 1(1), 20-26, 2015.

5. Study of solvatochromatic, photoluminescence, electrochemical and antibacterial property of a sodium vanillin polymeric complex, Sumita Paul Purkayastha , Diganta Kumar Das , Dibakar Deb and Krishna Gopal Bhattacharyya, *J. App. Fund. Sci.*, 1(1), 124-29, 2015.
6. Biodiversity Conservation in North-East India, Chapter 16, Study of the total hardness of water near the municipal dumping site of Karimganj Town, Assam, during rainy season, Dibakar Deb and Sumita Paul Purkayastha, Tazuddin Khan and Sashin Kumar Barthakur(Eds.) *Lap Lambert academic Publishing , Germany*, 85-91, 2013.
7. Assessment of heavy metals and physico chemical parameters of water samples of the vicinity of the municipality dumping sites of Karimganj District, Assam, India, Deb Dibakar , Paul Purkayastha Sumita, Bhattacharyya Krishna Gopal, *Int. J. Env. Sci*, 2(3), 1408-1416, 2012.
8. Tetra-*n*-alkylammonium bromates as a primary oxidant in the oxidation of aromatic aldehydes to the corresponding carboxylic acid, Dibakar Deb and Pranab J Das, *J. Sci. forum*, 2(1), 232-235, 2011.
9. Contributions of Chemistry and Challenges in the twenty first Century, Sumita Paul Purkayastha and Dibakar Deb, *Educhem*, 5,8-10, 2011.
10. Interdisciplinary research with Chemistry as Backbone, Sumita Paul Purkayastha and Dibakar Deb, *J.Sci. forum*, 1(1), 38-45,2010.
11. Tetra-*n*-alkyl ammonium bromates as a primary oxidants in the oxidation of alcohols to carbonyl compounds, Dibakar Deb, Satya Sandhya Das, Utpal Nath & Pranab J Das, *Indian Journal of Chemistry,Section B, Vol.43B,No.6,1360-1364,2004*.
12. Tetra-*n*-alkylammonium bromates—new and efficient reagents for deoxygenation, Utpal Nath, Satya Sandhy Das, Dibakar Deb and Pranab Jyoti Das , *New J. Chem. (Royal Society of Chemistry Publication)* , 2004, 28, 1423-1425.
13. A Convenient Method for the Oxidation of Aromatic Amines to Nitro Compounds Using Tetra-*n*-alkylammonium Bromates, Satya Sandhya Das, Utpal Nath, Dibakar Deb & Pranab J. Das 34(13) , 2359-2363, 2004