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Education

Ph D (Chemistry)	2015	Dibrugarh University
M Sc (Chemistry)	2007	Dibrugarh University
B Sc (Chemistry)	2005	Dibrugarh University

Experience

September, 2017 – Till Date	Teacher, Rajiv Gandhi Institute of Petroleum Technology, Assam Centre
January, 2017 – June, 2017	Guest Faculty, Cotton University (The then Cotton College State University)
April, 2014 – February, 2017	Lecturer, Luit Valley Academy, Jorhat, Assam
April, 2011– April, 2014	CSIR–Senior Research Fellow, Materials Science Division, CSIR–NEIST, Jorhat, Assam
January, 2010 – April, 2011	Project Assistant (Level-II), Chemical Engineering Division, CSIR–NEIST, Jorhat, Assam
April, 2008 – December, 2010	CSIR–Diamond Jubilee Research Intern, Coal Chemistry Division, CSIR–NEIST, Jorhat, Assam

Research Interest

Adsorption

Reactive Extraction Technique

Coal Chemistry

Publications

1. **Ponchami Sharma**, Modon Mohan Borah, Swapnali Hazarika, Samiran Borthakur, Chandan Tamuli, N. N. Dutta, Nanofiltration of methyl green from aqueous solution, *Journal of Applied Membrane Science and Technology*, 12, 19 – 28, 2010.
2. **Ponchami Sharma**, Manash R. Das, Removal of a cationic dye from aqueous solution using graphene oxide nanosheets: Investigation of adsorption parameters, *Journal of Chemical and Engineering Data*, 58, 151 – 158, 2013.
3. **Ponchami Sharma**, Najrul Hussain, Dipankar J. Borah, Manash R. Das, Kinetics and adsorption behavior of the methyl blue at the graphene oxide/reduced graphene oxide nanosheet – water interface: A comparative study, *Journal of Chemical and Engineering Data*, 58, 3477– 3488, 2013.
4. **Ponchami Sharma**, Gitashree Darabdhara, Tallapareddy Muralikrishna Reddy, Ashwini Borah, Pranjal Bezboruah, Pranjal Gogoi, Najrul Hussain, Pinaki Sengupta, Manash R. Das, Synthesis, characterization and catalytic application of Au Nps- reduced graphene oxide composites material: An eco- friendly approach, *Catalysis Communications*, 40, 139 –144, 2013.
5. **Ponchami Sharma**, Modon Mohan Borah, Samiran Borthakur, P.G. Rao, N. N. Dutta, Separation of norbixin from raw dye solution using aliquat-336, *Journal of environmental progress and sustainable energy*, 32, 134-138, 2013.
6. **Ponchami Sharma**, Binoy K. Saikia, Manash R. Das, Removal of methyl green dye molecule from aqueous system using reduced graphene oxide as an efficient adsorbent: Kinetics, isotherm and thermodynamic parameters, *Colloids and Surfaces A: Physicochem. Eng. Aspects*, 457,125–133, 2014.
7. **Ponchami Sharma**, Dipankar J. Bora, Manash R. Das, Graphene oxide nanosheets at water – organic solvent interface: Utilization in one pot adsorption and reactive extraction of dye molecules, *ChemPhysChem*, 15, 4019 – 4025, 2014.
8. **Ponchami Sharma**, Dipankar J. Borah, Pankaj Das, Manash R. Das, Cationic and anionic dye removal from aqueous solution using montmorillonite clay: Investigation of kinetics, isotherm and thermodynamic parameters, *Desalination and water treatment*, 57, 8372-8388, 2016.
9. Rami Reddy Devarapalli, Ranjit V. Kashid, Ashvini B. Deshmukh, **Ponchami Sharma**, Manash R. Das, Mahendra A. More, Manjusha V. Shelke, High efficiency electron field emission from protruded graphene oxide nanosheets supported on sharp silicon nanowires, *Journal of Materials Chemistry C*, 1, 5040 – 5046, 2013.
10. Najrul Hussain, Animesh Gogoi, Rupak K. Sarma, **Ponchami Sharma**, Ratul Saikia, Manash R. Das, An effective bactericides of Au nanoparticle decorated on the reduced graphene oxide nanosheets: Investigation of sugar and protein leakage, *ChemPlusChem*, 79, 1774 – 1784, 2014.

11. Purna K. Boruah, Dipankar J. Borah, Junali Handique, **Ponchami Sharma**, Pinaki Sengupta and Manash R. Das, Facile Synthesis and characterization of Fe₃O₄ nanopowder and Fe₃O₄/reduced graphene oxide nanocomposite adsorbents for kinetics, thermodynamics and isotherm investigation of methyl blue dye molecule: A comparative study, *Journal of Environmental Chemical Engineering*, 3, 1974-1985, 2015.
12. Geetika Borah, Pradip K. Gogoi, Aicharjya Borah, **Ponchami Sharma**, Sol-gel method of synthesis and characterization of some mixed- oxide nanocomposites, *Journal of Indian chemical society*, 87 (11), 1345-1349, 2010.
13. Geetika Borah, **Ponchami Sharma**, A novel route to size and shape controlled synthesis of DMSO capped ruthenium dioxide nanoparticles, *Indian journal of chemistry*, 50, 45-51, 2011.
14. Manash R. Das, **Ponchami Sharma**, Sarat Ch. Borah, Sabine Szunerits, Rabah Boukherroub, Metal Nanoparticles/Graph ene-based Composite Materials:Synthesis and Application (Book Chapter), *Innovative graphene technologies: Developments and characterisation (volume 1)*, 223– 274, 2013.
15. **Ponchami Sharma**, Najrul Hussain, Manash R. Das, Ashvini B. Deshmukh, Manjusha V Shelke, Sabine Szunerits, Rabah Boukherroub, Metal Oxide-Graphene Nanocomposite Material: Synthesis to Applications (Book Chapter), *Handbook of Research in Nanoscience, Nanotechnology in Advanced Materials*, 196 – 225, 2014.
16. **Ponchami Sharma**, Manash R. Das, Graphene Oxide And Reduced Graphene Oxide as an Efficient Carbon Based Material For Removal of Dye From Aqueous Solution (Book Chapter), *Graphene Oxide: Synthesis, Mechanical Properties And Applications*, 195 – 212, 2014.

Awards and Honours

1. CSIR – Senior Research Fellowship in 2011.
2. Award for Best Performing Senior Research Fellow from CSIR–NEIST for the year 2013 – 14.