

#### A. Publication in Peer reviewed journals (2011):

1. **Suresh Pandian**, Sharad Gokhale, Alope K. Ghoshal (2011) An open-terrain line source model coupled with street-canyon effects to forecast carbon monoxide at traffic roundabout. *Science of the Total Environment*, 409 (6), 1145-1153.
2. **Jayashree Nath**, L. Jamir, Bhisma K. Patel (2011) Improved procedure for the preparation of isothiocyanates via iodine-mediated desulfurization of dithiocarbamic acid salts, *Green Chemistry Letters and Reviews*, 4(1), 1-34.
3. Kanan Pakshirajan, A. Sivasankar, **Naresh K. Sahoo** (2011) Decolourization of synthetic wastewater containing azo dyes by immobilized *Phanerochaete chrysosporium* in a continuously operated RBC reactor *Applied Microbiology and Biotechnology*. 89, 1223-1232.
4. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh, **Atreyee Ghosh** (2011) Biodegradation of 4-chlorophenol by *Arthrobacter chlorophenolicus* A6: Effect of culture conditions and degradation kinetics. *Biodegradation*. 22:275-286.
5. **Atreyee Ghosh**, Kanan Pakshirajan, Pranab K. Ghosh, **Naresh K. Sahoo** (2011) Perchlorate degradation by an indigenous microbial consortium predominantly *Burkholderia* sp. *Journal of Hazardous Materials*, 187:133-139.
6. **J. Anandkumar**, J and Bisnupada Mandal (2011) Adsorption of Chromium (VI) and Rhodamine B by Surface Modified Tannery Waste: Kinetic, Mechanistic and Thermodynamic Studies. *Journal of Hazardous Materials*, 186, 1088-1096.
7. **Biju P.Sahariah**, Saswati Chakraborty (2011) Kinetic analysis of phenol, thiocyanate and ammonia-nitrogen removals in an anaerobic- anoxic-aerobic moving bed bioreactor system. *Journal Hazardous Materials*, 190, 260-267.
8. **Naresh K. Sahoo**, Kannan Pakshirajan, Pranab.K. Ghosh (2011). Biodegradation kinetics of paranitrophenol by *Arthrobacter chlorophenolicus* A6. *Applied Biochemistry and Biotechnology*. 165, 1587-1596.
9. **Naresh K. Sahoo**, Pranab K. Ghosh, Kanan Pakshirajan (2011). Kinetics of 4-bromophenol degradation using calcium alginate immobilized *Arthrobacter chlorophenolicus* A6. *International journal of Earth Science and Engineering*. 4: 663-668.
10. **Deepmoni Deka**, P. Bhargavi, Ashish Sharma, Dinesh Goyal, Mohammad Jawed and Arun Goyal (2011) Enhancement of cellulase activity from a new strain of *Bacillus subtilis* by medium optimization and analysis with various cellulosic substrates. *Enzyme Research*. doi:10.4061/2011/151656.

11. **Aditi Banerjee**, Alope K. Ghoshal (2011) Phenol degradation performance by isolated *Bacillus cereus* immobilized in alginate, *International Biodeterioration and Biodegradation*, 65 (7), 1052-1060.
12. **Bedabrata Saha**, S. Das, Jiban Saikia, Gopal Das (2011) Preferential and Enhanced Adsorption of Different Dyes on Iron Oxide Nanoparticles: A Comparative Study. *J. Phys. Chem. C*, 115(16), 8024-8033.
13. Jiban Saikia, **Bedabrata Saha**, Gopal Das (2011) Efficient removal of chromate and arsenate from individual and mixed system by malachite nanoparticles *J. Hazard. Mater.* 575-582, 186, 2011.
14. Das RK, Gogoi N and **Bora U** (2011) Green synthesis of gold nanoparticles using *Nyctanthes arbortristis* flower extract. *Bioprocess and Biosystems Engineering*, 34 (5), 615-619.
15. Babu PJ, Sharma P, Kalita MC, **Bora U** (2011) Green synthesis of biocompatible gold nanoparticles using *Fagopyrum esculentum* leaf extract. *Frontiers in Materials Science* 2011, 5(4), 379–387.

#### **B. CONFERENCES AND SEMINARS (2011):**

1. Rajeev Ravindran, Saprativ P. Das, **Deepmoni Deka** and Arun Goyal (2011) “Bench scale bioethanol production involving recombinant *C. thermocellum* hydrolytic enzymes and fermentative microbes. 52nd annual conference of Association of Microbiologists of India, “International Conference on Microbial Biotechnology for Sustainable development”, November 3-6, 2011, Punjab University, Chandigarh, IM 118, p 195.
2. **Bhaskar Das**, Tapas K Mandal, Sanjukta Patra (2011) “Pathway of phenol degradation in *C.pyrenoidosa*”, Young ecologists Talk and Interact, 13-15<sup>th</sup> December 2011, IIT Guwahati
3. **Banasri Sarma**, Arup K. Sarma and Chandan Mahanta (2011): “Optimal Ecological Management Practices (EMPs) For Controlling Sediment and Water Yield from Hilly Urban Watersheds”. Proceedings of International Conference on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011), NIT Calicut, India, 28 - 30 September 2011.
4. Chandan Mahanta, Arup K. Sarma and **Banasri Sarma** (2011): “Water Quality Degradation in the Tributaries of the Brahmaputra-Barak Basin and Their Environmental Management Strategy”, World Environmental and Water Resources Congress 2011: Bearing Knowledge for Sustainability Proceedings of the 2011 World Environmental and Water Resources Congress ASCE Conf. Proc. doi:10.1061/41173(414)483.

5. **Anandkumar J** and Mandal, B. (2011). “Effect of different chemical treatments on the adsorption of strontium from synthetic wastewater”. “International Conference on Sustainable Water Resource Management and Treatment Technologies” (Water 2011 - NEERI), January 19-21, Nagpur, INDIA.
6. **Naresh K. Sahoo**, Pranab K. Ghosh, Kanan Pakshirajan (2011) “Kinetics of 4-bromophenol degradation using calcium alginate immobilized *Arthrobacter chlorophenolicus* A6”. *International conference on advanced in civil engineering*. KL University, Guntur Andra Pradesh India, 21-23 October (2011).
7. **Naresh K. Sahoo, Kanan Pakshirajan, Pranab K.Ghosh** (2011) “Biodegradation of p-bromophenol using Ca-alginate immobilized *Arthrobacter chlorophenolicus* A6 gel beads” (Poster). International conference on Climate change and Water. Organized by Department of humanities science of Indian institute of Technology Guwahati 3 -5 January 2011.
8. **Banasri Sarma**, Arup K. Sarma and Chandan Mahanta (2011):” Geographic Information System for Environmental Management of Large River Systems”, Abstract Book of International Conference on the Status and Future of the Worlds Large Rivers, 11-14 April 2011, Vienna, Page No: 110, ISBN: 978-80-7399-518-8.
9. **B. P. Sahariah** and S. Chakraborty (2011) “Performance of anoxic fed batch biofilm reactor treating synthetic wastewater containing thiocyanate, nitrate-n and ammonia-n with varied influent phenol”. *International Conference on sustainable Water Resource Management and Treatment Technologies (Water-2011)*, National Environmental Engineering Research Institute (NEERI), Nagpur, January 19-21, India.
10. **Sushant Singh**, Abhay Narayan Singh, Anil Verma and Vikash Kumar Dubey (2011) “Heavy metal stress induced Superoxide dimutase: Purification and characterization from *Cicer arietinum* L. seedlings”. 80<sup>th</sup> Annual Meeting of the Society of Biological Chemists (SBC). Central Institute of Medicinal and Aromatic Plants (CIMAP). Lucknow (U.P). November 12-15, 2011. (*Poster presentation*)
11. **Sushant Singh**, Anil Verma and Vikash Kumar Dubey (2011) “Effects of increasing Aluminium metal stress in germinating chickpea (*Cicer arietinum*) seeds”. International Conference on ‘Climate Change and Water: Assessing vulnerability, impact, and adaptation in the Eastern Himalayas’. IIT Guwahati, Guwahati, Assam. January 3-5, 2011. (*Poster presentation*).
12. Sushant Singh (2011) Attended Young Ecologist Talk and Interact (YETI) - 2011, IIT Guwahati, Guwahati, Assam. December 13-15. 2011.
13. **Brahmacharimayum, B.** and Ghosh, P.K. (2011). “A study on efficiency of five different carbon sources on Sulfate Reduction.” Poster session presented at International Congress of Environmental research (ICER-2011), December 15-17, 2011, Surat, India.

14. **Nayanmoni Gogoi** and Utpal Bora (**2011**) Participated in “Short Term Course on Cancer Biology 2011: Theoretical Aspects,” organized by IITG Biotech Hub, Centre for the Environment, IIT Guwahati, Guwahati, Assam, India, 26<sup>th</sup> to 27<sup>th</sup> August, 2011
15. **Nayanmoni Gogoi**, Chandan Mahanta and Utpal Bora (**2011**) “Evaluation of Floodplain Characteristics of Brahmaputra River for Sustainable Development and Best Management Practices,” Poster presented in International Conference on “Climate Change and Water: Assessing vulnerability, impact and adaptation in the Eastern Himalayas,” organized by the Department of Humanities and Social Sciences, IIT Guwahati, Assam, India, 3<sup>rd</sup> to 5<sup>th</sup> January, 2011.
16. **Nayanmoni Gogoi**, Utpal Bora and Chandan Mahanta (**2011**) “Nutrient Cycling in Wetland Ecosystems,” Speed Talk cum Poster presented in “Young Ecologists Talk and Interact, 2011,” organized by Centre for the Environment, IIT Guwahati, Assam, India, 13<sup>th</sup> to 15<sup>th</sup> December, 2011.
17. **Deepmoni Deka**, Saprativ P. Das, Rajeev Ravindran, Mohammad Jawed, Debashish Das and Arun Goyal (**2011**) “Approaches for identification of a combination of hydrolytic enzymes and fermentative microbes for bioethanol production from thatch grass”. “Symposium on Carbohydrates at the Interface of Chemistry and Biology (CARBO XXVI)”, November 23-25, 2011, Indian Institute of Chemical Biology, Kolkata, PP-36, p64.