

#### **A. Publication in Peer reviewed journals (2010):**

1. **Aditi Banerjee**, Alope K. Ghoshal (2010) Isolation and characterization of hyper phenol tolerant *Bacillus* sp. from oil refinery and exploration sites, *Journal of Hazardous Materials*, 176, 85–91.
2. **Aditi Banerjee**, Alope K. Ghoshal (2010) Phenol degradation by *Bacillus cereus*: Pathway and kinetic modeling, *Bioresource Technology*, doi:10.1016/j.biortech.2010.02.018.
3. **Jayashree Nath**, Mihir K. Chaudhuri (2010) Borax: An Ecofriendly and Efficient Catalyst for One-Pot Synthesis of 3,4-Dihydropyrimidine-2(1H)-ones under Solvent-Free Conditions, *Synthetic Communications*, 40(20), 2976-2982.
4. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh (2010), Medium development for enhancing the biodegradation of 4-chlorophenol by *Arthrobacter chlorophenolicus* A6. *International Biodeterioration and Biodegradation* 64: 474-480.
5. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh (2010) Biodegradation of para-nitrophenol using *Arthrobacter chlorophenolicus* A6 in a novel upflow packed bed reactor. *Journal of Hazardous Materials*, 190, 729-737.

#### **B. CONFERENCES AND SEMINARS (2010):**

1. **Rajib L. Deka** and Chandan Mahanta (2010) Trends in the rainfall pattern over North East India. Paper presented in the National Seminar on Climate Change and Sustainable Development held at Tezpur University, Tezpur during 1-3 April, 2010.
2. **Rajib L. Deka**, Chandan Mahanta and Mrinal K. Dutta (2010) An assessment of monsoon rainfall variability and rice production in Assam. Paper presented in the National Seminar on Climate Change and Sustainable Development held at Tezpur University, Tezpur during 1-3 April, 2010.
3. **Nayanmoni Gogoi** (2010) Participated in “International Geographical Union (IGU) Commission Seminar: Land Use, Biodiversity and Climate Change,” organized by the Department of Geography, Cotton College, 11<sup>th</sup> to 13<sup>th</sup> December, 2010
4. **Nayanmoni Gogoi**, Shamim Rahman and Utpal Bora (2010) “Biodiversity of the Ganga River,” Poster presented in International Conference on “Biodiversity and Climate Change,” organized by CORAL, IIT Kharagpur, Kharagpur, India, 21<sup>st</sup> to 23<sup>rd</sup> December, 2010
5. **Nayanmoni Gogoi** (2010) Participated in National Seminar on “Sustainable Management and Conservation of Environment,” organized by the Department of Botany, Moran College, Moranhat, Assam, 3<sup>rd</sup> to 4<sup>th</sup> June, 2010.
6. **Nayanmoni Gogoi** and Utpal Bora (2010) Participated in National Symposium on “Biodiversity of Assam: Status, development and Conservation,” Assam Science Society, Celebration of International

Year of Biodiversity, organized by the Assam Science Society, Jawaharnagar, Khanpara, Assam, India, 4<sup>th</sup> to 5<sup>th</sup> December, 2010.

7. **Deepmoni Deka**, Saprativ P. Das, Mohammad Jawed and Arun Goyal (2010) “Cellulase production under solid state culture by an isolated fungus using agrowaste for bioconversion to ethanol. Oral presentation”, “National Conference on Emerging Trends in Biopharmaceuticals: Relevance to Human Health & 4<sup>th</sup> Annual Convention of Association of Biotechnology and Pharmacy”, November 11-13, 2010, Thapar University, Patiala.
8. **Sushant Singh**, Anil Verma and Vikash Kumar Dubey (2010) “Oxidative stress analysis in germinated Chickpea (*Cicer arietinum*) seeds under Copper ions”. International Conference on Frontiers on Biological Sciences (INCOFIBS). NIT Rourkela, Rourkela, Odisha. October 1-3, 2010. (Oral presentation)
9. **Aditi Banerjee**, Alope K. Ghoshal (2010) “Biodegradation of phenol by isolated *Bacillus cereus* immobilized in alginate”. Oral presentation: 2010 AIChE Annual meeting, Salt lake city, UT
10. **Aditi Banerjee**, Alope K. Ghoshal (2010) “Biodegradation of refinery wastewater by free and immobilized bacillus cereus”. Oral presentation: 2010 AIChE Annual meeting, Salt lake city, UT.
11. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh (2010) “Batch biodegradation of para-Bromophenol by *Arthrobacter chlorophenolicus A6*”. International conference on genomics sciences (Poster). VII Convention of BRSI organized by Department of Biotechnology of Madurai Kamraj University, Madurai During 12- 14 November 2010.
12. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh (2010) “Kinetics of growth and biodegradation of p-nitrophenol and p-chlorophenol by *Arthrobacter chlorophenolicus A6* (Oral)”. Ninth International Conference on Hydro-Science and Engineering. Organized by Department of Ocean Engineering, Indian institute of Technology Madras, Chennai 2-5 Aug 2010.
13. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh (2010) “Growth and biodegradation kinetics of p-bromophenol and p-nitrophenol by *Arthrobacter chlorophenolicus A6* (Poster)”. International conference Environmental Health and Toxicity. Organized by Department of Civil Engineering of Indian institute of Technology, Kanpur, 15-17 March.
14. **Banasri Sarma**, Arup K. Sarma and Chandan Mahanta (2010): “GIS Based Inventory of the Rivers of Northeastern Region of India for their Conservation and Management”, Proceedings of the Ninth International Conference on Hydro-Science and Engineering (ICHE 2010), at IIT Madras, Chennai, India 2-5 August, 2010, Page No: 655-664, ISBN: 978-93-80689-01-02.
15. **Banasri Sarma**, Arup K. Sarma. and Chandan Mahanta (2010) “Geographic Information System for River Water Quality Monitoring” , Proceedings of National Seminar On Clean Water For Healthy

World, 25th Water resource Day organized by The Institute of Engineers (India), Assam State Centre, 26th May, pp 35-40

16. **Banasri Sarma** and Arup K. Sarma (2010). "Impact of Embankment System on Water Bodies of Majuli Island: A GIS Based Study, in the book Sustainable Water Resources Management and Impact of Climate Change", BS Publications, Hyderabad-500095, pp 333-343, ISBN : 978-81-7800-226-2.
17. **B. P. Sahariah**, and Saswati Chakraborty (2010). "Effect of nitrate-n on the performance of anoxic fed batch reactor treating synthetic wastewater containing phenol, thiocyanate and ammonia-n". *The Indian Chemical Engineering Congress (CHEMCON 2010)*, Annamalai University, Annamalainagar, December 27-29, India.
18. **Anandkumar, J** and Mandal, B. (2010). Removal mechanism of Cr(VI) and Rhodamine B from aqueous solution using HCl treated adsorbent. "The Indian Chemical Engineering Congress" (CHEMCON-2010), Dec 27-29, Annamalainagar, INDIA.
19. **Bedabrata Saha**, Saswati Chakraborty, Gopal Das (2010) Nanofilter for wastewater: selective and reversal adsorption of metal ions on a new-bio-nanocomposite. *Frontiers in Chemical Sciences (FICS-2010)*, December 3-4, IIT Guwahati, Assam, India.
20. Jiban Saikia, **Bedabrata Saha**, Gopal Das (2010) Efficient removal of chromate and arsenate from individual and mixed system by malachite nanoparticles. *Frontiers in Chemical Sciences (FICS-2010)*, December 3-4, IIT Guwahati, Assam, India
- 21.

### **C. Book Chapter**

**Bedabrata Saha**, Gopal Das, "Surface engineered inorganic nano-materials for water remediation" in "Application of Adsorbents for Water Pollution Control" Ed. Amit Bhatnagar, Bentham Science Publishers. Oak Park, IL, USA. DOI: 10.2174/97816080526911120101. Pages 119-152.