

Sl No.	Research publications (2013)
1.	Singh, S., Singh, A.N., Verma, A., Dubey, V.K. Biodegradable polycaprolactone (PCL) nanosphere encapsulating superoxide dismutase and catalase enzymes (2013) Applied Biochemistry and Biotechnology, 171 (7), pp. 1545-1558
2.	Saikia, J., Sikdar, Y., Saha, B., Das, G Malachite nanoparticle: A potent surface for the adsorption of xanthene dyes (2013) Journal of Environmental Chemical Engineering, 1 (4), pp. 1166-1173.
3.	Das, S.P., Ravindran, R., Deka, D., Jawed, M., Das, D., Goyal, A. Bioethanol production from leafy biomass of mango (<i>mangifera indica</i>) involving naturally isolated and recombinant enzymes (2013) Preparative Biochemistry and Biotechnology, 43 (7), pp. 717-734.
4.	Sahoo, N.K., Ramesh, A., Pakshirajan, K. Bacterial degradation of aromatic xenobiotic compounds: An overview on metabolic pathways and molecular approaches (2013) Microorganisms in Environmental Management: Microbes and Environment, pp. 201-220.
5.	Deka, R.L., Mahanta, C., Pathak, H., Nath, K.K., Das, S. Trends and fluctuations of rainfall regime in the Brahmaputra and Barak basins of Assam, India (2013) Theoretical and Applied Climatology, 114 (1-2), pp. 61-71.
6.	Basu, S., Roy, A.S., Mohanty, K., Ghoshal, A.K. Enhanced CO ₂ sequestration by a novel microalga: <i>Scenedesmus obliquus</i> SA1 isolated from bio-diversity hotspot region of Assam, India (2013) Bioresource Technology, 143, pp. 369-377.
7.	Pandian, S., Gokhale, S., Ghoshal, A.K. Corrigendum to "Evaluating effects of traffic and vehicle characteristics on vehicular emissions near traffic intersections" [Transportation Research Part D 14 (2009) 180-196] (2013) Transportation Research Part D: Transport and Environment, 23, p. 114.
8.	Singh, S., Singh, A.N., Verma, A., Dubey, V.K. A novel superoxide dismutase from <i>Cicer arietinum</i> L. Seedlings: Isolation, purification and characterization (2013) Protein and Peptide Letters, 20 (7), pp. 741-748
9.	Singh, A.N., Singh, S., Dubey, V.K. Immobilization of Procerain B, a Cysteine Endopeptidase, on Amberlite MB-150 Beads (2013) PLoS ONE, 8 (6), art. no. e66000, .
10.	Saha, B., Saikia, J., Das, G. Tuning the selective interaction of lysozyme and serum albumin on a carboxylate modified surface (2013) RSC Advances, 3 (21), pp. 7867-7879.
11.	Sahariah, B.P., Chakraborty, S. Performance of anaerobic-anoxic-aerobic batch fed moving-bed reactor at varying phenol feed concentrations and hydraulic retention time (2013) Clean Technologies and Environmental Policy, 15 (2), pp. 225-233.
12.	Deka, D., Jawed, M., Goyal, A. Purification and characterization of an alkaline cellulase produced by <i>Bacillus subtilis</i> (AS3) (2013) Preparative Biochemistry and Biotechnology, 43 (3), pp. 256-270.
13.	Sahoo, N.K., Ghosh, P.K., Pakshirajan, K. Biodegradation of 4-bromophenol by <i>Arthrobacter chlorophenicus</i> A6T in a newly designed

	packed bed reactor (2013) Journal of Bioscience and Bioengineering, 115 (2), pp. 182-188.
14.	Akhtar, N., Sharma, A., Deka, D. Jawed, M., Goyal, D., Goyal, A Characterization of cellulase producing Bacillus sp. for effective degradation of leaf litter biomass (2013) Environmental Progress and Sustainable Energy, 32 (4), pp. 1195-1201.
15.	Sahariah, B.P., Chakraborty, S. Effects of cycle time and fill time on the performance of an anaerobic-anoxic-aerobic-fed batch moving-bed reactor (2013) Environmental Technology (United Kingdom), 34 (2), pp. 245-256.
16.	Ghoshal, A.K., Roy, A.S., Mohanty, K., Basu, S. Isolation, identification and characterization of high CO ₂ tolerant microalgae for efficient CO ₂ sequestration from two different locations of India (2013) Sustainable Engineering Forum 2013 - Core Programming Area at the 2013 AIChE Annual Meeting: Global Challenges for Engineering a Sustainable Future, pp. 593-594.
17.	Basu, S., Roy, A.S., Mohanty, K., Ghoshal, A.K. Isolation, identification and characterization of high CO ₂ tolerant microalgae for efficient CO ₂ sequestration from two different locations of India (2013) Energy and Transport Processes 2013 - Core Programming Area at the 2013 AIChE Annual Meeting: Global Challenges for Engineering a Sustainable Future, pp. 160-161.
18.	Banasri Sarma, Arup Kr. Sarma, V.P. Singh. Optimal Ecological Management Practices (EMPs) for Minimizing the Impact of Climate Change and Watershed Degradation Due to Urbanization (2013) Water Resource Management, 27:4069-4082.
19.	Deepmoni Deka, Saprativ P. Das, Arabinda Ghosh, Debasish Das, Mohammad Jawed, Arun Goyal Scale up and efficient bioethanol production involving recombinant cellulase (Glycoside hydrolase family 5) from <i>Clostridium thermocellum</i> . (2013) Sustainable chemical processes, 1:19, 1-11.
20.	N.K. Sahoo, K. Pakshirajan and P.K. Ghosh Biodegradation of 4-bromophenol by Arthrobacter chlorophenolicus A6 in a newly designed packed bed reactor (2013) Journal of Bioscience and Bioengineering 115 (2), 182-188.
21.	Babu PJ, Sharma P, Saranya S, Tamuli R, Bora U (2013) Green synthesis and characterization of biocompatible gold nanoparticles using <i>Solanum indicum</i> fruits, Nanomaterials and Nanotechnology, 3, Art. 4:2013
22.	Babu PJ, Sharma P, Saranya S, Bora U (2013) Synthesis of gold nanoparticles using ethonolic leaf extract of <i>Bacopa monnieri</i> and UV irradiation. <i>Materials Letters</i> , 93, 431-434.

CONFERENCES AND SEMINARS (2013):

1. **Bhaskar Das**, Tapas K Mandal, Sanjukta Patra (2013) “Phenol degradation by *Chlorella Pyrenoidosa*”, International Conference on Algal Biorefinery: A potential Source of Food, Feed, Biochemicals, Biofuels and Biofertilizers, January 10-12, 2013, IIT Kharagpur.
2. **Samarpita Basu** (2013) Paper presentation in the International Conference on Algal Biorefinery (ICAB 2013) held at IIT Kharagpur during January 11-12, 2013.

3. M. Laskar, M. P. Mohanty, **Bharati Brahmacharimayum** and P. K. Ghosh (2013) “Kinetics of sulfate bioreduction and sulfide oxidation by mixed microbial consortia.” Poster presentation at International Congress of Environmental research (ICER-2013), December 19-21, 2013, Aurangabad, India.
4. **Deepmoni Deka** (2013) Applications of Remote sensing and GIS for conservation and restoration of forest bio-diversity resources in North east region. Regional Seminar on Ecorestoration for Development in NE India, April 22-23, 2013. (Oral).
5. **Surya Singh**, Chandan Mukherjee and Anil Verma (2013) “Development of Catalytic Activity Protocol for Electrochemical Reduction of Carbon Dioxide, Int Conference on Advances in Energy Research (ICAER)”, organized by Department of Energy Science and Engineering, IIT Bombay, Mumbai, Dec. 10-12, 2013.
6. Niva Rana Mahanta, Asifa Mahajabeen and Sarah Merchant (2013) “Integration of Green Palette in Desert Cities: Mitigating Challenges under the Stewardship of Dubai municipality”. International conference on Sustainability, SB13, December 2013, Dubai.
7. Vishan, I., Kanekar, H., Kalamdhad, A.S., 2013. Microbial community dynamics during composting of water hyacinth. *Proc. International Conference on Advances in Biotechnology and Bioinformatics (ICABB 2013)*, 25-27 November, Dr. D. Y. Patil Vidhyapeeth, Pune, India.