

Sl No.	Research Publications (2015)
1.	Goswami, S., Diengdoh, O.L., Syiem, M.B., Pakshirajan, K., Kiran, M.G. Zn(II) and Cu(II) removal by Nostoc muscorum: A cyanobacterium isolated from a coal mining pit in Chiehruhphi, Meghalaya, India (2015) Canadian Journal of Microbiology, 61 (3), pp. 209-215.
2.	Basu, S., Sarma Roy, A., Ghoshal, A.K., Mohanty, K. Operational strategies for maximizing CO <sub>2</sub> utilization efficiency by the novel microalga <i>Scenedesmus obliquus</i> SA1 cultivated in lab scale photobioreactor (2015) Algal Research, 12, pp. 249-257.
3.	Brahmacharimayum, B., Ghosh, P.K. Effects of different environmental and operating conditions on sulfate bioreduction in shake flasks by mixed bacterial culture predominantly <i>Pseudomonas aeruginosa</i> (2015) Desalination and Water Treatment, 11 p. Article in Press.
4.	Sarma, P.J., Kumar, R., Manikandan, N.A., Pakshirajan, K. Removal of Cr(III) and Cr(VI) from aqueous solution by biosorption using agricultural waste materials: Batch and continuous reactor study (2015) Asian Journal of Chemistry, 27 (9), pp. 3420-3430.
5.	Sahariah, B.P., Anandkumar, J., Chakraborty, S. Treatment of coke oven wastewater in an anaerobic–anoxic–aerobic moving bed bioreactor system (2015) Desalination and Water Treatment, 7 p. Article in Press.
6.	Das, B., Mandal, T.K., Patra, S. A comprehensive study on <i>Chlorella pyrenoidosa</i> for phenol degradation and its potential applicability as biodiesel feedstock and animal feed (2015) Applied Biochemistry and Biotechnology, 176 (5), pp. 1382-1401.
7.	Sarma, P.J., Kumar, R., Pakshirajan, K. Batch and continuous removal of copper and lead from aqueous solution using cheaply available agricultural waste materials(2015) International Journal of Environmental Research, 9 (2), pp. 635-648.
8.	Saha, B., Saikia, J., Das, G. Correlating enzyme density, conformation and activity on nanoparticle surfaces in highly functional bio-nanocomposites (2015) Analyst, 140 (2), pp. 532-542.
9.	Sahariah, B.P., Chakraborty, S. Comparative study on response of thiocyanate shock load on continuous and fed batch anaerobic-anoxic-aerobic sequential moving bed reactors(2015) Environmental Engineering Research, 20 (1), pp. 65-72.
10.	Sarma, B., Sarma, A.K., Mahanta, C., Singh, V.P. Optimal ecological management practices for controlling sediment yield and peak discharge from hilly urban areas(2015) Journal of Hydrologic Engineering, 20 (10), art. no. 04015005
11.	Surya Singh, Bedika Phukan, Chandan Mukherjee, Anil Verma Salen ligand complexes as electrocatalysts for direct electrochemical reduction of gaseous carbon dioxide to value added products (2015) RSC Advances, 5 (5), pp3581-3589
12.	Surya Singh, Chandan Mukherjee, Anil Verma Development of catalytic activity protocol for electrochemical reduction of carbon dioxide to

	value added products (2015) Clean Technologies and Environmental Policy, 17 (2), pp533-540
13.	Mothe Gopi Kiran, K. Pakshirajan and Gopal Das Heavy metal removal using sulfate reducing biomass obtained from a lab scale upflow anaerobic packed bed reactor (2015) Journal Environmental Engineering, DOI: 10.1061/(ASCE)EE.
14.	N.K. Sahoo, K. Pakshirajan and P.K. Ghosh Treatment of refinery wastewater using <i>Arthrobacter chlorophenolicus</i> A6 in an upflow packed bed reactor Desalination and Water Treatment, 55, pp 1762-1770
15.	Mohan, M., Timung, R., Deshavath, N.N., Banerjee, T. , Goud, V.V., Dasu, V.V. Optimization and hydrolysis of cellulose under subcritical water treatment for the production of total reducing sugars RSC Advances, 5 (125), pp. 103265-103275
16.	Kumar A, Chetia H, Sharma S, Kabiraj D, Talukdar NC, <b>Bora U</b> (2015) Curcumin Resource Database. <i>Database</i> (Oxford). 2015:bav070.
17.	Vishan, I., Kalamdhad, A.S., 2015. Heavy metal removal through bacterial biomass isolated from various contaminated sites. <i>International Journal of Environmental Sciences</i> , 6(2/3), <i>In Press</i> .

### Conferences and Seminars (2015)

1. Smruti R. Dash (2015) "Synthesis and Antimicrobial effects of Nanoparticles - a mini Review" Chemcon 2015, IIT Guwahati.
2. Bhaskar Das, Tapas K Mandal, Sanjukta Patra (2015). Characterization of phenol degradation in *Chlorella Pyrenoidosa*. Research Scholars Day, Jan 19, 2015, IIT Guwahati.
3. Bhaskar Das, Tapas K Mandal, Sanjukta Patra. Kinetics and enzymatic mechanism of microalgal phenol degradation. Proceedings of National Conference on Challenges in Environmental Research, Pg. 30, June 4-6, 2015, IIT Guwahati.
4. Mothe Gopi Kiran (2015) Kinetic and mechanism of heavy metal removal by sulfate reducing bacteria obtained from a laboratory scale upflow anaerobic packed bed reactor, Dec 27 -30, 2015, IIT Guwahati chemcon 2015.
5. Niva Rana Mahanta, Pooja Priyam Ravi and Sherlyn Daniel (2015) *Adaption of Vernacular Architecture as a Sustainable Identity for the Contemporary Built Environment* South Asian Vernacular Architecture conference, SPA, Bhopal, India (11-13 Dec, 2015).
6. Vishan, I., Laha, A., SenthilKumar S., Kalamdhad, A.S., 2015. Biosorption of Lead (Pb) by *Bacillus badius* AK strain (KP 216715) during rotary drum composting of Water Hyacinth. *Proc. International Conference on Solid Waste (ICSWHK-2015)*, 19-23 May, 2015, Hong Kong Baptist University, Hong Kong.
7. Vishan, I., Kalamdhad, A.S., 2015. Interaction of *Bacillus badius* AK strain with Lead (Pb) isolated during rotary drum composting of water hyacinth. *Proc. National Conference on Challenges in Environmental Research (NCOCER 2015)*, 4-6 June 2015, Indian Institute of Technology Guwahati, Guwahati, India.
8. Vishan, I., Kalamdhad, A.S., 2015. Biosorption of lead by *Bacillus badius* AK strain isolated from water hyacinth compost". *Proc. "Management and Procurement of Integrated Waste Management System"*, 6-7 Feb 2015, Department of Civil Engineering, Indian Institute of Technology Guwahati, India.

**Book Chapter (2015):**

**S. Singh**, A. Verma, S. Basu, 2015, “Oxygen reduction non-PGM electrocatalysts for PEM fuel cells - Recent Advances”, *Chapter 16* in “Electrochemical Energy: Advanced Materials and Technologies” edited by Shen P.K., Wang C.Y., Jiang S.P., Sun X., Zhang J., *Taylor & Francis*, ISBN 9781482227277, In Press.