

Sl No.	<u>Research publications (2014)</u>
1.	Sen, S., Venkata Dasu, V., Mandal, B., Rajendran, K. Enzymatic removal of burnt-on protein residues from solid surface: Apotential food equipment cleanser(2014) Food Control, 40 (1), pp. 314-319.
2.	Saikia, J., Saha, B., Das, G. Interpreting the adsorption of serum albumin and lactoglobulin onto ZnS nanoparticles: Effect of conformational rigidity of the proteins (2014) Journal of Colloid and Interface Science, 416, pp. 235-242.
3.	Ghosh, A., Pakshirajan, K., Ghosh, P.K. Bioremediation of perchlorate contaminated environment (2014) Environmental Science and Engineering (Subseries: Environmental Science), 112, art. no. A009, pp. 163-178.
4.	Das, S.P., Ravindran, R., Ghosh, A., Deka, D., Das, D., Jawed, M., Fontes, C.M.G.A., Goyal, A. Efficient pretreatment for bioethanol production from water hyacinth ( <i>Eichhornia crassipes</i> ) involving naturally isolated and recombinant enzymes and its recovery (2014) Environmental Progress and Sustainable Energy, 33 (4), pp. 1396-1404.
5.	Basu, S., Roy, A.S., Mohanty, K., Ghoshal, A.K. CO <sub>2</sub> biofixation and carbonic anhydrase activity in <i>Scenedesmus obliquus</i> SA1 cultivated in large scale open system (2014) Bioresource Technology, 164, pp. 323-330.
6.	Brahmacharimayum, B., Ghosh, P.K. Sulfate bioreduction and elemental sulfur formation in a packed bed reactor (2014) Journal of Environmental Chemical Engineering, 2 (3), pp. 1287-1293.
7.	Vishan, I., Kanekar, H., Kalamdhad, A. Microbial population, stability and maturity analysis of rotary drum composting of water hyacinth (2014) Biologia (Poland), 69 (10), pp. 1303-1313.
8.	Nandana, V., Singh, S., Singh, A.N., Dubey, V.K. Procerain B, a cysteine protease from <i>Calotropis procera</i> , requires N-terminus pro-region for activity: cDNA cloning and expression with pro-sequence (2014) Protein Expression and Purification, 103, pp. 16-22.
9.	Sarika, D., Singh, J., Prasad, R., Vishan, I., Varma, V.S., Kalamdhad, A.S. Study of physico-chemical and biochemical parameters during rotary drum composting of water hyacinth (2014) International Journal of Recycling of Organic Waste in Agriculture, 3:63.
10.	N.K. Sahoo, K. Pakshirajan and P.K. Ghosh Evaluation of 4-bromophenol biodegradation in mixed pollutants system by <i>Arthrobacter chlorophenolicus</i> A6 in an upflow packed bed reactor (2014) Biodegradation, 25, 705-718
11.	N.K. Sahoo, K. Pakshirajan and P.K. Ghosh Biodegradation of 4-bromophenol by <i>Arthrobacter chlorophenolicus</i> A6 in batch shake flasks and in a continuously operated packed bed reactor (2014) Biodegradation, 25, 265-276
12.	Kumar A and Bora U (2014) Molecular docking studies of curcumin natural derivatives with DNA topoisomerase I and II-DNA complexes. <i>Interdiscip Sci Comput Life Sci</i> , 6: 1–7.

## Conferences and Seminars

1. **Niva Rana Mahanta** (2014) "From Persian Gardens to Parks of the 21st Century; A Cross Cultural Study on Constructed Landscape of Dubai and India", April, 2014, Manipal Research Colloquium, Manipal , India.
2. **N.Naik**, R.Timung, V.V.Goud, V.V.Dasu, (2014). Dilute acid pretreatment of bamboo for the production of fermentable sugars, National Conference on "Sustainable Development of Environmental Systems" (NCOSDOES- 2014), June 20-21, Indian Institute of Technology (IIT), Guwahati, India.
3. R.Timung, N.Naik, **V.V.Goud**, **V.V.Dasu**, (2014). Hydrolysis of sugarcane bagasse to produce reducing sugar for bioethanol production, Indo-US Conference on "Advanced Lignocellulosic Biofuels" (Indo-US CALB- 2014), November 10-11, CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad, India.
4. **Bhaskar Das**, Tapas K Mandal, Sanjukta Patra. Characterization of phenol degradation by a novel diatom species BD1IITG isolated from petroleum refinery wastewater. Proceeding of National Conference on sustainable development of environmental systems. Pg-30. IIT Guwahati. June 20-21, 2014.
5. **Bhaskar Das**, Gowtham Selvaraj, Tapas K Mandal., Sanjukta Patra. Biodegradation of phenol by microalgae. Proceeding of National Conference on sustainable development of environmental systems. Pg-75. IIT Guwahati. June 20-21, 2014.
6. **Bhaskar Das**, Tapas K Mandal, Sanjukta Patra. Isolation and growth kinetics of a phenol degrading novel diatom species BD1IITG. 64<sup>th</sup> Canadian Chemical Engineering Conference. Niagara Falls, Canada, October 19-22, 2014.
7. **Bhaskar Das**, Tapas K Mandal, Sanjukta Patra. Performance evaluation of phenol degradation by *Chlorella pyrenoidosa* in nutrient sufficient media and refinery wastewater through kinetic modeling. 64<sup>th</sup> Canadian Chemical Engineering Conference. Niagara Falls, Canada, October 19-22, 2014.
8. **Bhaskar Das**, Sanjukta Patra. Mechanism of phenol degradation in *Chlorella pyrenoidosa*. Asian Plant Science Conference. 1-3 November 2014, Lumbini, Nepal.
9. Gowtham Selvaraj, **Bhaskar Das**, Sanjukta Patra. Recent advances in algal biodiesel production. Asian Plant Science Conference. 1-3 November 2014, Lumbini, Nepal.
10. Vishan, I., Kanekar, H., Kalamdhad, A.S., Microbial succession, stability and maturity analysis of rotary drum composting of water hyacinth. *Proc. National Conference on Sustainable*

*Development of Environmental System (NCOSDOES-2014)*, 20-21 June 2014, Centre for the Environment, Indian institute of Technology Guwahati, Guwahati, India.

11. Attended Indo-US Summer School on “International Perspectives on Quantitative Microbial Risk Assessment”, 30 June-9 July 2014, Indian institute of Technology Delhi, Delhi India.
12. Vishan, I., SenthilKumar S., Kalamdhad, A.S., 2014. Isolation and Biosorption of Metal during rotary drum composting of Water Hyacinth. *Proc. International Conference on Environment and Energy 2014, 15-17 Dec*, JNTUH, Hyderabad, India .