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Dr. Biswanath Mahanty's Profile



Dr. Biswanath Mahanty, M. Tech, Ph.D.

DESIGNATION: Associate Professor

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Academic Background

Degree	University	Year
Postdoc	University of Ulsan, South Korea	2011
Ph.D.	IIT Guwahati, India	2009
M.Tech.	Jadavpur University, India	2003
B.Pharmacy	Jadavpur University, India	2001

Courses Taught

- Bioprocess Modelling and Simulation
- Metabolic Regulation and Engineering
- Biochemical Thermodynamics
- Downstream Processing
- Chemical Reaction Engineering

Research Interests

- Anaerobic digestion of agro-industrial waste
- Microbial Carbon capture, utilization and storage
- Removal of organic and inorganic contaminants in soil-water system
- Dynamic modelling of bioprocess and optimization
- Development of variable selection algorithm for regression and classification

MOST RECENT PUBLICATIONS

- Al-Hoqani, M., Zafar, M., Musharafi, S.K.A., Mahanty, B., Behera, S.K. **COD fractionation and solubility assessment of sonicated waste-activated sludge**, *Environmental Quality Management*, (2021)
- Kumar, A., Mahanty, B., Goswami, R.C.D. et al. **In vitro antidiabetic, antioxidant activities and GC-MS analysis of Rhynchostylis Retusa and Euphorbia Neriifolia leaf extracts**. 3 *Biotech* 11, 315 (2021).
- Lhamo, P., Behera, S.K., Mahanty, B. **Process optimization, metabolic engineering interventions and commercialization of microbial polyhydroxyalkanoates production – A state-of-the art review**. *Biotechnology Journal*, (2021)
- Philus, C.D., Mahanty, B. **Dynamic modelling of tetrazolium-based microbial toxicity assay—a parametric proxy of traditional dose-response relationship**. *Environmental Science and Pollution Research*, 28, 45390–45401 (2021)
- David, J., Mahanty, B. **Optimized ciprofloxacin release from citric acid crosslinked starch-PVA hydrogel film: modelling with mixture design**. *Journal of Polymer Research* 28, 20 (2021).

PROJECTS HANDLED: N/A

PATENTS PUBLISHED/GRANTED: N/A

Memberships in Professional Bodies

- American Chemical Society