

Dr. Satya Sundar Mohanty's Profile



Satya Sundar Mohanty M.Tech., Ph.D., Post Doc

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Date of Joining KITS: 05.07.2021

Academic Background

Degree	University	Year
Postdoc	Indian Institute of Technology Guwahati	2022-24
Ph.D	National Institute of Technology Rourkela – Department of Chemical Engineering	2020

Degree	University	Year
M.Tech	National Institute of Technology Rourkela – Department of Biotechnology & Medical Engineering	2012
B.Tech	ICFAI University, Dehradun – Department of Biotechnology	2012

Courses Taught

- Bioprocess Calculations
- Enzyme Technology
- Biochemical Thermodynamics
- Molecular medicine
- Stoichiometric Calculations

Research Interests

- Environmental Biotechnology
- Algae Technology
- Waste Water Treatment and Valorization
- Recombinant DNA Technology

MOST RECENT PUBLICATIONS

- **S. S. Mohanty**, & K. Mohanty (2023). Valorization of *Chlorella thermophila* biomass cultivated in dairy wastewater for biopesticide production against bacterial rice blight: A circular biorefinery approach. *BMC Plant Biology*, 23, 644 <https://doi.org/10.1186/s12870-023-04579-z>
- **S. S. Mohanty**, & K. Mohanty (2023). Production of a wide spectrum biopesticide from *Monoraphidium* sp. KMC4 grown in simulated dairy wastewater. *Bioresource Technology*, 374, 128815 <https://doi.org/10.1016/j.biortech.2023.128815>
- **S. S. Mohanty**, & H. M. Jena (2022). Biodegradation of Herbicide by the Immobilized Microbial Consortium SMC1 in Continuous Packed-Bed Biofilm Reactor. *Frontiers in Chemical Engineering* <https://doi.org/10.3389/fceng.2022.721923>
- **S. S. Mohanty**, & A. P. Das (2021). A Systematic Study on the Microbial Degradation of Glyphosate: A Review. *Geomicrobiology Journal*. <https://doi.org/10.1080/01490451.2021.1998255>

- **S. S. Mohanty**, & H. M. Jena (2021). Mass Transfer Study of Butachlor Biodegradation Using Immobilized Microbial Consortium SMC1 in a Packed Bed Bioreactor. *The Canadian Journal of Chemical Engineering*. <https://doi.org/10.1002/cjce.24118>

Memberships in Professional Bodies

- Biotech Research Society India
- Australasian Practical Zero-Emissions Society