Profile Page

Name	:	Dr Anee Mohanty
Designation	:	Assistant Professor Grade-i
Department	:	Bio-Technology
Qualification	:	Ph.D Environmental Engineering (Nanyang Technological University) M.Tech Biotechnology (National Institute of Technology, Rourkela) B.Tech Biotechnology
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Research Interests :

Environmental Biotechnology, Nanotoxicity, Biofilms, Applied Microbiology

Other Profile Links :

Google Scholar Link :

Anee Mohanty Click Here

Journal Publications :

Year	Journal	Publication
2022	BioEnergy Research	Recent Advancements in Microalgal Mediated Valorisation of Wastewater from Hydrothermal Liquefaction of Biomass
2022	Environmental Pollution	Technological advancements in valorisation of industrial effluents employing hydrothermal liquefaction of biomass: Strategic innovations, barriers and perspectives
2022	International Journal of Food Microbiology	Sustainable utilization of food waste for bioenergy production: A step towards circular bioeconomy
2022	Innovative Infrastructure Solutions	Environmental concern, leachability and leaching modelling of fly ash and microbes: State-of-the-art review
2022	Journal of Hazardous Materials Advances	Prangya Ranjan Rout, Anee Mohanty, Ana Sharma, Mehak Miglani, Dezhao Liu, Sunita Varjani.Micro-and Nanoplastics Removal Mechanisms in Wastewater Treatment Plants: A Review
2021	Natural Product Research	In silico screening of effective inhibitor of 5?-reductase type 1 for androgenic alopecia treatment

2021	GeoJournal	Geospatial multivariate analysis of COVID-19: a global perspective
2021	Systems Microbiology and Biomanufacturing	Influence of gut microbiome on the human physiology
2021	Biomass Conversion and Biorefinery	A critical review on biogas production from edible and non-edible oil cakes
2016	Environmental Science: Nano 3 (2), 351-356	Impacts of nanomaterials on bacterial quorum sensing: differential effects on different signals
2016	Applied and Environmental Microbiology 82 (14), 4401-4409	Influence of 3-chloroaniline on the biofilm lifestyle of Comamonas testosteroni and its implications on bioaugmentation
2015	Applied microbiology and biotechnology 99 (4), 1957-1966	Extracellular biogenic nanomaterials inhibit pyoverdine production in Pseudomonas aeruginosa: a novel insight into impacts of metal (loid) s on environmental bacteria
2015	Environmental Science & Technology Letters 2 (4), 105-111	Impact of sublethal levels of single-wall carbon nanotubes on pyoverdine production in Pseudomonas aeruginosa and its environmental implications
2015	Environmental Microbiology Reports 7 (3), 498-507	Multiple diguanylate cyclase?coordinated regulation of pyoverdine synthesis in Pseudomonas aeruginosa
2015	Applied Microbiology and Biotechnology 99 (8), 3519-3532	Comparative genome analysis reveals genetic adaptation to versatile environmental conditions and importance of biofilm lifestyle in Comamonas testosteroni
2014	Biotechnology and Bioengineering 111 (5), 858-865	Biogenic tellurium nanorods as a novel antivirulence agent inhibiting pyoverdine production in Pseudomonas aeruginosa
2014	Applied microbiology and Biotechnology 98 (20), 8457-8468	Impacts of engineered nanomaterials on microbial community structure and function in natural and engineered ecosystems

Book/Chapter Publications :

Type	**Title**	**Publisher**	**Authors**	**ISBN/ISSN No.**	**Year**
Book Chapter	Plant-Microbe Interactions and Its Effect on Crop Productivity	Springer, Singapore	Sumer Singh Meena, Megha Mankoti, Prangya Ranjan Rout, Anee Mohanty	Print ISBN 978-981-16-9681-7	2022
Book Chapter	Microbial adaptation to extreme temperatures: an overview of molecular mechanisms to industrial application	Academic Press	Anee Mohanty, Shilpa, Sumer Singh Meena	ISBN: 9780323902748	2022
Book Chapter	Cellulose and extracellular polymer recovery from sludge	Elsevier	Anee Mohanty, Sumer Singh Meena, Pankaj Pathak, Prangya Ranjan Rout	ISBN 978-0-323-90178-9	2022
Book Chapter	Ethical, Patent, and Regulatory Issues in Microbial Engineering	Springer, Singapore	Sumer Singh Meena, Anee Mohanty	Hardcover ISBN 978-981-15-2603-9 Softcover ISBN 978-981-15-2606-0	2020

Book Chapter	Biofilms in Bio?Nanotechnology	John Wiley & Sons, Inc	CK Ng, A Mohanty, B Cao	Print ISBN: 9781118677681 Online ISBN: 9781118677629	2015

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
PI	Seed Grant	Production of Biogas from Kitchen waste of NITJ	TEQIP-III	03-12-18	02-12-19	INR 3 Lakhs	Completed	Dr. Sumer Singh Meena and Dr. G N Nikhil
Co-PI	Externally Funded Project	Establishment of Science Technology and Innovation (STI) Hub for Empowerment of SC/ST	DST	05-11-20	04-11-2023	INR 2.49 Crore	Ongoing	

Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	International	Trends and Prospects in Biorefinery	NIT Jalandhar	10-06-2020	14-06-2020	Convener
STC/FDP	International	Intellectual Property Rights and Innovative Entrepreneurship	NIT Jalandhar	01-03-2019	05-03-2019	Coordinator
STC	International	Computational Tools for Analysis of Biological Systems	NIT Jalandhar	02-09-2020	06-09-2020	Coordinator
Conference	International	International conference on Recent Advancement in Biotechnology (icRAB-2022)		02-12-22	04-12-22	Organising Secretary

Professional Affiliations :

Designation	Organization
Life Member	Association of Microbiologists of India (AMI)
Life Member	The Biotech Research Society (BRSI), India

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor

Ms. Richa Sharma	Environmental Biotechnology	Ongoing	2021	Dr. Sumer Singh Meena
Mr. Ankit Kumar	Computational Biology	Ongoing	2021	Dr. Anee Mohanty

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Megha Mankoti	Deciphering the genetic potential of plant growth promoting rhizobacteria for plant beneficial attributes by comparative pangenome analysis	Completed	2022	
Shubham Yadav	Genome analysis of Chlorella vulgaris UTEX259 for deciphering its biodegradation potential of emerging contaminants	Awarded	2021	NA
Tmana Mahajan	Characterization and Leachability of Soil and Fly Ash	Awarded	2021	Dr. Anee Mohanty

Admin. Responsiblities :

Position Held	Organization	From	To
NIRF Committe Member	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	23-02-18	
Girls Hostel Warden	Dr B R Ambedkar National Institute of Technology Jalandhar	13-02-2018	07-03-2021
BOS member	Centre for Energy and Environment NIT Jalandhar	04-11-2020	Till date