Dr. Dibyajyoti Haldar's Profile

Dibyajyoti Haldar M.Tech., Ph.D.

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Date of Joining KITS: 08.09.2021

ACADEMIC BACKGROUND

Degree	Institute	Year
Postdoc	Indian Institute of Technology, Guwahati	2018-2021
Ph.D	National Institute of Technology, Agartala	2013-2018

Degree	Institute	Year
M.Tech	National Institute of Technology, Durgapur	2011-2013
B.Tech	Aarupadai Veedu Institute of Technology, Paiyanoor	2005-2009

COURSES TAUGHT

- Industrial Biotechnology
- Environmental Biotechnology
- Algae Biotechnology
- Biochemical Thermodynamics
- Biochemistry

RESEARCH INTERESTS

- Resource recovery from waste residues
- Microcrystalline cellulose
- Lignin nanoparticles
- Bioplastic films
- Biofuels

MOST RECENT PUBLICATIONS

- Emisha L, Nishita Wilfred, Kavitha S, Gopinath Halder, **Dibyajyoti Haldar**, Anil Kumar Patel, Reeta Rani Singhania and Ashok Pandey. (2023) Biodegradation of microplastics: Advancement in the strategic approaches towards prevention of its accumulation and harmful effects, ***Chemosphere (Elsevier), IF: 8.8***, 346, 140661.

- Shalma S, **Dibyajyoti Haldar**, Anil Kumar Patel, Reeta Rani Singhania and Ashok Pandey. (2023) Waste fish scale for the preparation of bio-nanocomposite film with novel properties, ***Environmental Technology & Innovation (Elsevier), IF: 7.1***, 103386.

- Yi-Sheng Tseng, Anil Kumar Patel, **Dibyajyoti Haldar**, Chiu-Wen Chen, Cheng-Di Dong and Reeta Rani Singhania. (2023) Microalgae and nano-cellulose composite produced via a co-culturing strategy for ammonia removal from the aqueous phase, ***Bioresource Technology (Elsevier), IF: 11.4***, 129801.

- **Dibyajyoti Haldar**, Neelanjan Bhattacharjee, Asma Musfira Shabbirahmed, Grace Sathyanesan Anisha, Anil Kumar Patel, Jo-Shu Chang, Cheng-Di Dong and Reeta Rani Singhania. (2023) Purification of biogas for methane enrichment using biomass-based adsorbents: A review, ***Biomass and Bioenergy (Elsevier), IF: 6.0***, 173, 106804.

- Prangan Duarah, **Dibyajyoti Haldar**, Reeta Rani Singhania, Cheng-Di Dong, Anil Kumar Patel and Mihir Kumar Purkait. (2023) Sustainable management of tea wastes: Resource recovery and conversion techniques, ***Critical Reviews in Biotechnology (Taylor & Francis), IF: 9.0*****.** https://doi.org/10.1080/07388551.2022.2157701.

PROJECTS ONGOING

- Development of an integrated process for co-production of biobutanol from sugarcane trash and lignin nanoparticles (LNPs) as green carrier for bactericidal agent by CSIR (Council of Scientific & Industrial Research), Ministry of Science and Technology, Government of India (2023-2026) Budget: 25.80 Lakhs.

AUTHORED BOOK PUBLISHED

- Mihir Kumar Purkait, Dibyajyoti Haldar and Banhisikha Debnath. (2023) Technological Advancements in Product Valorization of Tea Waste, Elsevier, ISBN: 9780443192395.
- Mihir Kumar Purkait, Dibyajyoti Haldar and Prangan Duarah. (2022) Advances in Extraction and Applications of Bioactive Phytochemicals, Elsevier, ISBN: 9780443185359.
- Mihir Kumar Purkait and Dibyajyoti Haldar. (2021) Lignocellulosic biomass to value-added products: Fundamental strategies and technological advancements, Elsevier, ISBN: 9780128235348.
- Mihir Kumar Purkait, Randeep Singh, Piyal Mondal and Dibyajyoti Haldar. (2020) Thermal induced membrane separation processes, Elsevier, ISBN: 9780128188019.

MEMBERSHIPS IN PROFESSIONAL BODIES

- Life membership of The Biotech Research Society, India; ID: LM 2549 (2021 onwards).
- Member of Centre for Professional Advancement CPACE, AP India; ID: 21C-451 (2021 onwards).