NAME	Dr. Devlina Pramanik	
DESIGNATION AND DETAILS	Assistant Professor (Biotechnology) Centre for Biotechnology and Biochemical Engineering Amity Institute of Biotechnology, Amity University, Noida Campus, Uttar Pradesh Former Marie Sklodowska Curie Fellow (Funded by European Commission, H2020 Marie Curie Actions), School of Food Science and Nutrition, University of Leeds, United Kingdom Google Scholar Link: https://scholar.google.com/citations?hl=en&user=JIKqvbQAAAAJ	
EMAIL ID	dpramanik@amity.edu; d.pramanikleeds@gmail.com	
CONTACT NUMBER	+91-9903703451	
RESEARCH INTERESTS	**Functional Biopolymers, Soft Matter, Environmental Engineering and Environmental Toxicology**	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
Vellore Institute of Technology	PhD	2016
Vellore Institute of Technology	Bachelor of Technology (B.Tech)	2011

Title of Ph.D. thesis: Biosorption as a tool for removal and recovery of silver(I) and zinc(II) ions from aqueous environment using macrofungus.

PROFESSIONAL EXPERIENCE

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Assistant Professor II	Teaching and Research	Amity University, Noida Delhi, India	December 2022 – Present
Marie Curie fellow	Research	University of Leeds, United Kingdom	November 2020-October 2022
Assistant Professor	Teaching and Research	PSG College of Technology, Coimbatore, India	June 2017 – November 2019
Scientist	Research	Vellore Institute of Technology, Tamil Nadu	April 2016-March 2017

PUBLICATIONS ***(Total 34)***

H-Index: 22

Total Citations: 1953

i10 Index: 33

1. Deepshikha Sharma, Isha Dhiman, Swarnali Das, Deepak Kumar Das, **Devlina Das Pramanik**, Sandeep Kumar Dash, Arindam Pramanik, Recent Advances in Therapeutic Peptides: Innovations and Applications in Treating Infections and Diseases, ACS Omega, 10 (Issue 17), 2025, pp. 17087–17107**.** **Impact Factor: 4.0**

2.**Devlina Das Pramanik***, Pratham Garg, Divya Ganesan, Arindam Pramanik, Removal of malachite green from an aqueous environment using chitosan-xanthan gum coagulation system: A response surface methodology approach, **Journal of Water Process Engineering**, 65, 2024, pp. 105896 **Impact Factor: 6.5**

3. Zhangling Chen, Laura J. Carter, Steven A. Banwart, **Devlina Das Pramanik**, Paul Kay, Multifaceted effects of microplastics on soil-plant systems: Exploring the role of particle type and plant species, **Science of The Total Environment**, 954, 2024, pp. 176641. **Impact Factor: 8.2**

4. Devlina Das Pramanik*, Armeena Sharma, Deepak Kumar Das, Arindam Pramanik, Pau Kay, Francisco M. Goycoolea, Toxicological impacts of plastic microfibers from face masks on

Artemia salina: An environmental assessment using Box-Behnken design, **Marine Environmental Research**, 202, 2024, pp. 106810 **Impact Factor: 3.0**

5.Devlina Das Pramanik*, Paul Kay, Francisco M. Goycoolea, A rapid and portable fluorescence spectroscopy staining method for the detection of plastic microfibers in water,**Science of The Total Environment**, 908, 2024, 168144. **Impact Factor: 8.2**

6. Divya Ganesan, Sakthi Umamaheswari, **Devlina Das Pramanik***, Application of Sonicated Chitosan for the Remediation of VAT Dye Bath Wash: Optimization studies using Box-Behnken Model, **International Journal of Environmental Science and Technology** (Springer), (2023) **Impact Factor 3.0**

7. Devlina Das Pramanik*, Sihan Lei, Paul Kay, Francisco M. Goycoolea, Investigating onthe toxicity and bio-magnification potential of synthetic glitters on *Artemia salina*, Marine Pollution Bulletin,190, 2023, 114828. **Impact Factor 5.2**

8. Devlina Das*, Abarajitha R, Paul Kay, V. Ramamurthy, Francisco M. Goycoolea, Nilanjana Das, Selective recovery of lithium from spent coin cell cathode leachates using ion imprinted blended chitosan microfibers: Pilot scale studies provide insights on scalability, Journal of Hazardous Materials, 431, 2022, 128535

Impact Factor: 12.2

9. Muhammad Ovais, Sudip Mukherjee, Arindam Pramanik, **Devlina Das**, Anubhab Mukherjee, Abida Raza, Chunying Chen (2020) Designing Stimuli-Responsive Upconversion Nanoparticles that Exploit the Tumor Microenvironment. Advanced Materials. 32(22):2000055 **Impact Factor: 27.4**

10. Nilanjana Das, Jagannathan Madhavan, Adikesavan Selvi and **Devlina Das** (2019) An overview of cephalosporin antibiotics as emerging contaminants: A serious environmental concern. 3 Biotech 9: 9(6):1-14 **Impact Factor: 2.9**

11. Sahithya K, **Devlina Das** and Nilanjana Das (2017) Adsorption coupled photocatalytic degradation of dichlorvos using LaNiMnO6 perovskite nanoparticles supported on polypropylene filter cloth and carboxymethyl cellulose microspheres. Environmental Progress & Sustainable Energy. 36(1): 180-191 **Impact Factor: 2.4**

12. Sahithya K, **Devlina Das** and Nilanjana Das (2016) Adsorptive removal ofmonocrotophos from aqueous solution using biopolymer modified montmorillonite- CuO composites: Equilibrium, kinetic and thermodynamic studies. Process Safety and Environmental Protection. 99: 43-54 **Impact Factor: 6.9**

13. Lina Rose Varghese, **Devlina Das** and Nilanjana Das (2016) Application of novel nanobiocomposites for removal of nickel(II) from aqueous environments: Equilibrium, kinetics, thermodynamics and Ex-situ studies. Korean Journal Chemical Engineering. 33(1): 238-247 **Impact Factor: 2.7**

14. Lina Rose Varghese, **Devlina Das** and Nilanjana Das (2016) Adsorptive removal of nickel(II) ions from aqueous environments using gum based and clay based polyaniline/chitosan nanobiocomposite beads and microspheres: Equilibrium, kinetic, thermodynamics and ex-situ studies" Korean Journal of Chemical Engineering. 33(7):2114-2126 **Impact Factor: 2.7**

15. **Devlina Das**, Lina Rose Varghese and Nilanjana Das (2015) Enhanced TDS removal using cyclodextrinated, sulfonated and aminated forms of bead–membrane duo nanobiocomposite via sophorolipid mediated complexation. Desalination. 360: 35-44
Impact Factor: 8.4

16. **Devlina Das**, R. Vimala and Nilanjana Das (2015) Removal of Ag(I) and Zn(II) ions from single and binary solution using sulfonated form of gum arabic-powdered mushroom composite hollow semispheres: Equilibrium, kinetic, thermodynamic and Ex-situ studies. Ecological Engineering. 75: 116-122 **Impact Factor: 3.9**

17. Jaya Sre Varshini C, **Devlina Das** and Nilanjana Das (2015) Optimization of parameters for praseodymium(III) biosorption onto biowaste materials using responsesurface methodology: Equilibrium, kinetic and regeneration studies. Ecological Engineering. 81: 321-327 **Impact Factor: 3.9**

18. Sahithya K, **Devlina Das** and Nilanjana Das (2015) Effective removal of dichlorvos from aqueous solution using biopolymer modified MMT–CuO composites: Equilibrium, kinetic and thermodynamic studies. Journal of Molecular Liquids. 211: 821830 **Impact Factor: 6.165**

19. Selvi A, **Devlina Das** and Nilanjana Das (2015) Potentiality of yeast Candida spSMN04 for degradation of cefdinir, a cephalosporin antibiotic: kinetics, enzyme analysis and biodegradation pathway. Environmental Technology.36(34): 3112 3124
Impact Factor: 5.263

20. **Devlina Das** and Nilanjana Das (2014) Sunlight mediated diesel degradation under saline conditions using ionic silver coated sand via nanoreduction: Use of impregnated form of thiourea modified chitosan membranes for ex situ application. Journal of Hazardous Materials.278: 597-609 **Impact Factor: 12.2**

21. **Devlina Das**, R. Vimala and Nilanjana Das (2014) Biosorption of Zn(II) onto Pleurotus platypus: 5-Level Box–Behnken design, equilibrium, kinetic and regeneration studies. Ecological Engineering.64:136–141
Impact Factor: 3.9

22. D**evlina Das**, Jaya Sre Varshini C and Nilanjana Das (2014) Recovery of lanthanum(III) from aqueous solution using biosorbents of plant and animal origin: Batch and column studies. Minerals Engineering. 69 : 40-56 **Impact Factor: 4.9**

23. Jaya Sre Varshini C, **Devlina Das** and Nilanjana Das (2014) Optimization of parameters for cerium(III) biosorption onto biowaste materials of animal and plant origin using 5 level Box- Behnken design: Equilibrium, kinetic, thermodynamic and regeneration studies. Journal of Rare Earths. 32(8): 745-758 **Impact Factor: 5.2**

24. Geetanjali Basak, **Devlina Das**, Nilanjana Das (2014) Enhanced Zn(II) uptake using zinc imprinted form of novel nanobiosorbent and its application as an antimicrobial agent. Korean Journal of Chemical Engineering.31(5): 812-820
Impact Factor: 2.9

25. Jaseetha Abdul Salam, Lakshmi V, **Devlina Das**, Nilanjana Das (2013) Biodegradationof lindane using a novel yeast strain, Rhodotorula sp. VITJzN03 isolated from agricultural soil. World Journal of Microbiology and Biotechnology.29: 475–487.
Impact Factor: 4.0

26. Geetanjali Basak, **Devlina Das** and Nilanjana Das (2013) Dual role of acidic diacetate sophorolipid as biostabilizer for ZnO nanoparticle synthesis and biofunctionalizing agentagainst Salmonella enterica and Candida albicans. Journal of Microbiology and Biotechnology.24(1): 87-96. **Impact Factor: 2.5**

27. Nilanjana Das and **Devlina Das** (2013) Recovery of rare earth metals through biosorption: An overview. Journal of Rare Earths.31(10): 933–943
Impact Factor: 5.2

28. Devlina Das, Geetanjali Basak, Lakshmi V and Nilanjana Das (2012) Kinetics and equilibrium studies on removal of zinc(II) by untreated and anionic surfactant treated dead biomass of yeast: Batch and column mode. Biochemical Engineering Journal.64: 30-47
Impact Factor: 3.7

29. Devlina Das, Charumathi D and Nilanjana Das (2011) Bioaccumulation of the synthetic dye Basic Violet 3 and heavy metals in single and binary systems by *Candida tropicalis* grown in a sugarcane bagasse extract medium: Modelling optimal conditions using response surface methodology (RSM) and inhibition kinetics. Journal of Hazardous Materials.186(2-3):1541-1552 **Impact Factor: 12.2**

30. Devlina Das and Nilanjana Das (2011) Response Surface Approach for the Biosorption of Ag(I) by Macrofungus *Pleurotus platypus*. CLEAN - Soil Air Water (Wiley).39(2): 157- 161
Impact Factor: 2.4

31. Devlina Das, Charumathi D and Nilanjana Das (2010) Combined effects of sugarcane bagasse extract and synthetic dyes on the growth and bioaccumulation properties of *Pichia fermentans* MTCC 189. Journal of Hazardous Materials.183(1-3): 497-505.
Impact Factor: 12.2

National Publications:

1. **Devlina Das**, Vimala, R, Nilanjana Das (2010) Functional foods of natural origin-An overview. Indian Journal of Natural Products and Resources (IJNPR) 1(2):136-142.

2. Lakshmi V, **Devlina Das**, Nilanjana Das (2013) Biodegradation of caffeine by the yeast Trichosporon asahii immobilized in single and hybrid matrices. Indian Journal of Chemical Technology 20(3):195-201

3. Jaye Sre Varshini C.J.S, **Devlina Das**, Nilanjana Das (2017). Packed bed column studies on recovery of cerium(III) from electronic wastewater using biosorbents of animal and plant origin, Indian Journal of Chemical Technology,24(3):294-303

Book Chapters	**Pramanik D**, Nag R., Recent Trends in Bioindicator Research for Monitoring Microplastics and Nanoplastics in a Marine Realm, Microplastics in Environment: Source, Potential Risks, Analytical Challenges and Remediation Strategies (Taylor and Francis), 2024, ISBN No. 9781032742045 Das. N, Mandal. S.K, **Das. D**, Madhavan.J, Selvi.A.,"Recent Updates on the Role of Biosurfactants for Remediation of Various Pollutants",Rhizobiome Dynamics in Bioremediation, (CRC Press), 2021, 180-197 **Das. D.,** "Organic flocculation as an alternative for wastewater treatment", Biochemical and Environmental Bioprocessing (CRC Press, Taylor and Francis Group), 2019, pp.163- 174
Conferences/Symposiums	1. **Invited Talk**: on 'Role of Functional Biopolymers for Tackling Microplastic Pollution in an Aqueous Environment: A Special Emphasis on Chitosan' in International Conference on Biological Innovation, Technology, Engineering and Science, (BITES-2024) organized by the Department of Biotechnology and Medical Engineering and Department of Mechanical Engineering, National Institute of Technology Rourkela in association with National Institute of Technology Uttarakhand from 18th to 20th December 2024 2. **Invited Oral Presentation:** Presented research work entitled 'Natural Adsorbents and Filtration Systems for the Removal of Microplastics/ Nanoplastics from Drinking Water' at the International Conference on Innovations in Biotechnology for Sustainability (IBS-2024) jointly organized by the Jawaharlal Nehru University, New Delhi and the Biotech Research Society, India at New Delhi, India during November 23-25, 2024 and presented a paper entitled 3. **Invited talk:** Managing Emerging Pollutants-Micro and nanoplastic pollution in Aquatic Animals, Faculty of Biological Science and Technology, Kanazawa University, Kakuma, Kanazawa, Ishikawa, 920-1192, JAPAN. 4. Poster presentation on the title 'Highlighting the role of Artemia salina a brine shrimp in brine water management: Aspects on hatching, swimming behavior, stress levels and resource recovery' at an International Conference on '6th International Conference on Desalination using Membrane Technology 19-22 November 2023, Sitges, Spain' 5. Invited talk:- Remediation of Moncrotophos using Biopolymer Coated Clay-Nano composite at Institute of Advanced Studies. PSG College of Technology, January 2019 6. International conference on Bioresource Technology for Bioenergy, Bioproducts and Environmental Sustainability, held during September 16-19, 2018, Melia Sitges, Barcelona, Spain (Poster Title-"Fluoride

	removal using montmorillonite and chitosan – Alum assisted coagulation") 7. 'Technology Tune-In', by Titan, held at Titan Industries, Hosur on March 17, 2018, Exhibited and demonstrated the working of 'Flocco – An Organic Flocculant' for the major purpose of removal of oil/grease from watch parts. 8. International conference on "Advances in Energy Research" held on December 12, 2017 Organized by Department of Energy Engineering, IIT Bombay (Poster Title- "Flocculation – Solar distillation as an integrated energy efficient technology for desalination of sea water") 9. International conference on "Start up to Scale up" held on October 29, 2017, hosted by IKP Knowledge Park, Hyderabad (Product- "Flocco – An Organic flocculant for sewage wastewater treatment")
PATENTS **Granted: 1**	**1. Flocculant for Sewage Water Treatment Application No. 201841016111 – Patent Granted**
Start-Up Company	Name: N-Science Sustainable Solutions Pvt Ltd Joka, Diamond Harbour Road, Kolkata CIN: U41000WB2018PTC227652
	TradeMark Product: B-Clay Products for Wastewater Treatment, Water Purification and Aquaculture
RESEARCH PROJECTS Completed: ***(2)*** Ongoing: ***(0)***	1. Project Title: FLOCCO-An Organic Flocculation System (March 2018-September 2019) Designation: Principal Investigator Funding Agency: BIRAC, Department of Biotechnology, Government of India, BIG Partner: IKP Knowledge Park, Hyderabad Duration: 18 months; Funding Amount:39.25 Lakhs (INR) 2.Project tile: Biopolymer Assisted Remediation of Microplastics from Fresh and Saline Water Environments using an Integrated Technology of Coagulation-Ultrasonication/Cavitation Designation: Marie Sklodowska Curie Fellow (Post Doctoral) Host: University of Leeds, United Kingdom Funding Agency: European Horizon, Brussels, Duration: 24 months ;Funding Amount: 224933.76 Euros
AWARDS & HONOURS/ DISTINCTIONS	1. BayInd fellowship for attaining hands on training in hydrodynamic cavitation for remediation of pharmaceutical traces from water (2018) 2. Marie Sklodowska Curie Individual Fellowship awarded by the European Commission for pursuing research on microplastic remediation using functional biopolymers (2019) 3. CSIR Senior Research Fellowship for pursuing PhD (2013) 4. Environmental Challenge Award 2015 for project Salino, awarded by RELX Elsevier. 5. Travel and Researcher Development Award by Royal Society of Chemistry, 2023 6. International Travel Support by DST SERB, Govt. of India, 2023 7. Travel and Researcher Development Award by Royal Society of Chemistry, 2024
Invited Talk Overseas	1. Invited and funded travel to University of Kanazawa for delivering a guest talk on the theme of 'Managing Emerging Pollutants-Microplastic and nanoplastic pollution in aquatic animals'

MEMBERSHIP with Professional/ Academic bodies	1. Royal Society of Chemistry (Membership Number: 724229) 2. European Chitin Society (EUCHIS) – 444 (Membership. No. 444) 3. Biotech Research Society India (Lifetime Member: Membership No. LM 2831) 4. British Mycological Society (Membership Number: 7947)
INTERNATIONAL AFFILIATION	1. Collaborating/Visiting Professor, Kanazawa University, Japan