


NAME	Dr. Anshu Priya		
DESIGNATION	Assistant Professor-II		
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CONTACT NUMBER	9006578871		
RESEARCH INTERESTS	Environmental biotechnology, biohydrometallurgy, waste and biomass valorization, biorefinery		
EDUCATIONAL QUALIFICATIONS:			
Name of College / University	Degree	Year	
IIT Patna	PhD	2018	
Title of Ph.D. thesis: Development of hybrid bioleaching process for recovery of metals from electronic waste.			
EXPERIENCE (in chronological order): Total 20 Years Research & Teaching			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Research Associate	Research	IIT Patna	2018-2019
Assistant Professor	Teaching	Amity University Kolkata	2020-2021
Post-doc	Research	City University of Hong Kong	2021-2022
Research Associate	Research	City University of Hong Kong	2022-2022
No. of Ph.D. students supervised	-		
No. of Post-Doc	-		
No. of M.Tech. Students supervised:	-		
No. of B.Tech. Students supervised:	-		
PUBLICATIONS (mention total no. here)	<p>19 Details:</p> <ol style="list-style-type: none"> Priya, A., Naseem, S., Pandey, D., Bhowmick, A., Attrah, M., Dutta, K., Rene, E.R., Suman, S.K. and Daverey, A. Innovative strategies in algal biomass pretreatment for biohydrogen production. Bioresource Technology, 2022, 369, 128446. (Impact factor: 11.889) Priya A., Hathi, Z., Haque, A., Kumar, S., Kumar, A., Singh, E., Lin, C.S.K., Effect of levulinic acid on production of polyhydroxyalkanoates from food waste by Haloferax mediterranei. Environmental Research, 2022, 214, 114001. DOI:10.1016/j.envres.2022.114001. (Impact factor: 8.431) Hathi, Z., Haque, A, Priya A., Qin, Z.H., Huang, S., Lam, C. H., Ladakis, D., Pateraki, C., Mettu, S., Koutinas, A., Du, C., Lin, C. S. K., Fermentative bioconversion of food waste into 		

- biopolymer poly(3-hydroxybutyrate-co-3-hydroxyvalerate) using *Cupriavidus necator*. *Environmental Research*, 2022, 215, 114323. (Impact factor: 8.431)
4. Haque, A., Priya, A., Hathi, Z.J., Qin, Z.H., Mettu, S. and Lin, C.S.K. Advancements and current challenges in the sustainable downstream processing of bacterial polyhydroxyalkanoates. *Current Opinion in Green and Sustainable Chemistry*. 2022, 36, 100631. DOI 10.1016/j.cogsc.2022.100631. (Impact factor: 8.843)
 5. Priya, A., Dutta, K., Daverey, A., A comprehensive biotechnological and molecular insight into plastic degradation by microbial community. *Journal of Chemical Technology and Biotechnology*. 2022, 97, 381-390. DOI 10.1002/jctb.6675. (Impact factor: 3.709)
 6. Kumar, A. N., Dissanayake, P.D., Masek, O., Priya, A., Lin, C.S.K., Ok, Y.S., Kim, S-H. Recent trends in biochar integration with anaerobic fermentation: Win-win strategies in a closed-loop. *Renewable and Sustainable Energy Reviews*. 2021, 149, 111371. DOI : 10.1016/j.rser.2021.111371 (Impact factor: 16.799)
 7. Mettu, S., Hathi, Z., Athukoralalage, S., Priya, A., Lam, T.N., Ong, K.L., Choudhury, N.R., Dutta, N.K., Curvello, R., Garnier, G. and Lin, C.S.K., Perspective on Constructing Cellulose-Hydrogel-Based Gut-Like Bioreactors for Growth and Delivery of Multiple-Strain Probiotic Bacteria. *Journal of Agricultural and Food Chemistry*. 2021, 69(17), 4946–4959. DOI 10.1021/acs.jafc.1c00468 (Impact factor: 5.895)
 8. Hathi, Z., Mettu, S., Priya, A., Athukoralalage, S., Lam, T.N., Choudhury, N.R., Dutta, N.K., El-Omar, E. M., Gong, L., Mohan, G., Lin, C. S. K., Methodological Advances and Challenges in Probiotic Bacteria Production: Ongoing Strategies and Future Perspectives. *Biochemical Engineering Journal*. 2021, 176, 108199. DOI 10.1016/j.bej.2021.108199. (Impact factor: 4.446)
 9. Priya, A. and Hait, S., Characterization of particle size-based department of metals in various waste printed circuit boards towards metal recovery. *Cleaner Materials*, 2021, 1, 100013. DOI 10.1016/j.clema.2021.100013. (Impact factor: NA)
 10. Lin, C. S. K., Kirpluks, M., Priya, A., Kaur., G., Conversion of food waste-derived lipid to bio-based polyurethane foam, *Case Studies in Chemical and Environmental Engineering*, 2021, 4, 100131. DOI 10.1016/j.cscee.2021.100131. (Impact factor: NA)
 11. Priya, A., Hait, S., Biometallurgical recovery of metals from waste printed circuit boards using pure and mixed strains of *Acidithiobacillus ferrooxidans* and *Acidiphilium acidophilum*. *Process Safety and Environmental Protection*. 2020, 143, 262-272. DOI 10.1016/j.psep.2020.06.042 (Impact factor: 7.926)
 12. Kumar, K., Priya, A., Arun, A., Hait, S., Chowdhury, A., Antibacterial and natural room-light driven photocatalytic activities of CuO nanorods. *Materials Chemistry and Physics*. 2019, 226, 106-112. DOI 10.1016/j.matchemphys.2019.01.020 (Impact factor: 4.778)
 13. Priya, A., Hait, S., Comprehensive characterization of printed circuit boards of various end-of-life electrical and electronic equipment for beneficiation investigation. *Waste Management*. 2018, 75, 103-123. DOI 10.1016/j.wasman.2018.02.014 (Impact factor: 8.816)
 14. Priya, A., Hait, S., Extraction of metals from high grade

	<p>waste printed circuit board by conventional and hybrid bioleaching using <i>Acidithiobacillus ferrooxidans</i>. <i>Hydrometallurgy</i>. 2018, 177, 132-139. DOI 10.1016/j.hydromet.2018.03.005 (Impact factor: 4.217)</p> <p>15. Priya, A., Hait, S., Feasibility of Bioleaching of Selected Metals from Electronic Waste by <i>Acidiphilium acidophilum</i>. <i>Waste and Biomass Valorization</i>. 2018, 9(5), 871-877. DOI 10.1007/s12649-017-9833-0 (Impact factor: 3.575)</p> <p>16. Priya, A., Hait, S., Toxicity characterization of metals from various waste printed circuit boards. <i>Process Safety and Environmental Protection</i>. 2018, 116, 74-81. DOI 10.1016/j.psep.2018.01.018 (Impact factor: 7.926)</p> <p>17. Priya, A., Hait, S., Comparative assessment of metallurgical recovery of metals from electronic waste with special emphasis on bioleaching. <i>Environmental Science and Pollution Research</i>. 2017, 24(8), 6989–7008. DOI 10.1007/s11356-016-8313-6 (Impact factor: 5.190)</p> <p>18. Priya, A., Hait, S., Qualitative and quantitative metals liberation assessment for characterization of various waste printed circuit boards for recycling. <i>Environmental Science and Pollution Research</i>. 2017, 24(35), 27445-27456. DOI 10.1007/s11356-017-0351-1 (Impact factor: 5.190)</p> <p>19. Gandhi, V., Priya, A., Priya, S., Daiya, V., Kesari, J., Prakash, K., Kumar Jha, A., Kumar, K. and Kumar, N., Isolation and molecular characterization of bacteria to heavy metals isolated from soil samples in Bokaro Coal Mines, India. <i>Pollution</i>. 2015, 1(3), 287–295. DOI 10.7508/pj.2015.03.005 (Impact factor: NA)</p>
PATENTS (<i>total no.</i>)	Details: -
RESEARCH PROJECTS Completed: (<i>total no.</i>) Ongoing: (<i>total no.</i>)	Details: -
AWARDS & HONOURS/ DISTINCTIONS	Details: Young Scientist Award Selected for BIRAC SPARSH 2020 CSIR International Travel Grant Best Paper Award Best Poster Presentation Award DST INSPIRE Fellowship Chancellor’s Gold Medal in M.Sc. Program Merit Scholarship in M.Sc. Program University Rank Fifth in B.Sc. Program
MEMBERSHIP with Professional/ Academic bodies	Details: