	Name of Faculty	**Dr Bishwambhar Mishra**	
	Designation	Assistant Professor	
	Nature of Job/Appointment	Regular	
	Date of Joining	02-06-2019	
	E-mail	bishwambhar_biotech@cbit.ac.in mishra.bishwambhar@gmail.com	
	Education Qualifications	Name of the Degree	Class
	Ph. D	M.Tech-Integrated-Doctor of Philosophy (Biotechnology)	Awarded
	UG	B. Tech. (Biotechnology)	First Class
	Work Experience		
	Teaching	11 years	
	Research	04 years	
	Industry	--	
	Others	--	
	Area of Specialization	Microbial Technology and Industrial Biotechnology	
	Professional Memberships	1. Biotech Research Society India, Lifetime Member 2. The Association of Microbiologists of India (AMI), Annual Member(2022-23) 3. Microbiologists Society India, Life member	
	Responsibilities held at Institution Level	1. I-STEM Coordinator	
	Responsibilities held at Department Level	1. Invited Member - Board of Studies 2. Research Coordinator 3. Member, Program Assessment Committee (PAC) 4. Member, Course Expert Group (CEG) 5. Member, Program Content Committee (PCC) 6. Member, Department advisory committee member 7. NIRF Coordinator dept level 8. Mentor for students 9. Program content committee coordinator 10. Universal Human Values coordinator 11. Coordinator- Students' Internship 12. Member- Anti-ragging Committee 13. Member-Squad & Disciplinary Committee 14. Coordinator- Neozion/Sudhee 2024	
	Research Guidance	--	
	Awards Received	1. Featured (as best scientist in Natural sciences and Biological sciences in University or Institution) in AD Scientific index (CBIT and Indian Ranking) for the years 2022, 2023, 2024, and 2025. 2. Received Research Award for Highest number of publications in SCOPUS/WoS indexed journals in 2025 by CBIT 3. Received Research Award for Highest Citation in Q1 journals in 2024 by CBIT 4. 2nd prize in poster presentation " International symposium on progress, advancements and research knowledge in biotechnology Biotech Spark 2024" organized by Bishop Heber college, Tiruchirapalli on 23.02.2024 5. Awarded as Topic Editor in Frontiers in Pharmacology & Frontiers in Oncology (Link: Anti-Cancer Bioactive Molecules	

		from Microbial Sources | Frontiers Research Topic (frontiersin.org) 6. Received "Best Teacher Award" at CBIT in the Academic Year of 2021-22 7. Received "Best Poster Award" in International conference on Bio-Innovations for Environmental and Health Sustainable Developments (BEHSD-2018), CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Lucknow, India; November 27-28, 2018 8. Received "Best Paper Award-2018" in 2nd International Conference on Research Trends in Engineering, Applied Science and Management (ICRTESM-2018) on 23rd September 2018 at Osmania University, Hyderabad 9. Received "Best Teacher Award" in the Sreenidhi Institute of Science and Technology in the Academic Year of 2014-15. 10. Received National Award, "Gandhian Young Technological Innovation Award-2013" organized by Techpedia and SRISTHI at IIM-A. 11. Received "Research Awards-2012" from VIT University for contribution to research through publication in peer reviewed journals. 12. Got 3rd Prize in Paper presentation in CAMTech-India Mediacl Hackathon on Nov 26, 2012, VIT University.
	Courses Handled at Under Graduate / Post Graduate Level.	1. Microbiology and Industrial Biotechnology 2. Instrumental Method in Biotechnology 3. Enzyme Technology 4. Environmental Biotechnology 5. Basics of Biology 6. Medical Biotechnology 7. Genomics and Proteomics 8. Environmental Studies 9. Food Science and Technology 10. Research and Methodology 11. Downstream Processing 12. Culture Values Ethics and IPR 13. Microbiology Laboratory 14. Instrumentation Laboratory 15. Universal Humans Values
	No. of Papers Published	National Journals – 12 | International Journals – 36 National Conference – Nil | International Conference – 15
	Projects Carried out	**1.** In-House Seed fund "Fabrication of Active food packaging system with Pullulan and selected plant extract" in 2025 with Sanctioned amount Rs. 1,00,000/- 2. In-House Seed fund "Bio degradation of toxic and recalcitrant dye absorbed hydrogel using BET system with value addition and environmental sustainability in 2025 with Sanctioned amount Rs1,80,000/- 3. In-House Seed fund "Utilizing banana peduncle as an affordobale bio-adsorbent for efficient removal of heavy metals from soil samles near industries" in 2025 with Sanctioned amount Rs1,05,000/- 4. **AICTE-SPICES** : Letter No. 10-221/AICTE/IDC/SPICES/2020-2 Start Date: 05.03.2021 Completion: 30.09.2022 Duration: 1 Years 6 Months **Total Budget: Rs. 2,00,000/- (Two Lakh)**
	Patents	--

	Technology Transfer	--
	Invited Speaker	1. Invited as resource person for Nation Seminar on Research and Innovation in Industrial and Marine Biotechnology: A Circular Economy on 4th November, 2024 at SoA University, Bhubaneswar
	No. of Books/Chapter Published with details	**Books** 1. Sanjeeb Kumar Mandal, Bishwambhar Mishra, Maulin P. Shah " Bioflocculants for Wastewater Treatment" Springer Nature, Published: 23 November,2025 https://link.springer.com/book/10.1007/978-981-96-9764-9 2. Mohanta, Y. K., Mishra, B., & Bhuyan, T. (Eds.). (2025). *Microbial Nanotechnology for Sustainable Future: Industrial and Environmental Perspectives*. CRC Press. Published: 4 August 2025 https://doi.org/10.1201/9781003487142 3. Yugal Kishore Mohanta, Bishwambhar Mishra, Ramesh Namdeo Pudake "Nano-microbiology for Sustainable Development" Springer Cham, Published: 26 February 2025. https://link.springer.com/book/10.1007/978-3-031-78845-1 **Book Chapters** 1. Chaudhury, S., Gaur, A., Mishra, B., Gottimukkala, K. S., & Varsha, V. S. (2026). Data collection and preprocessing for AI and ML applications in food science. In *Artificial Intelligence in Food Science* (pp. 45-62). Academic Press. 2. Roy, A., Dasari, B., Srilan, A., Mishra, B., Rajasri, Y., Mandal, S. K., & Nagendranatha Reddy, C. (2025). Production and Characterization of a Bioflocculant Produced by Marine-Based Microbes and Its Applications in Wastewater Treatment. In *Bioflocculants for Wastewater Treatment* (pp. 339-370). Singapore: Springer Nature Singapore. 3. Pulivarthi, B., Dounde, D., Disha, P., Vinukonda, L., Rajasri, Y., Mishra, B., & Reddy, C. N. (2025). State of the Art and Multifaceted Applications of Bioflocculants for the Remediation of Petroleum Refinery Wastewater. *Bioflocculants for Wastewater Treatment*, 179-206. 4. Reddy, V., Narala, P., Vanga, S. V., Panday, A., Mandal, S. K., Reddy, H. P., & Mishra, B. (2025). Conventional and Novel Methodologies to Extract Nano-Cellulose from Fruit and Vegetable Wastes. In *Fruit and Vegetable Processing Wastes and By-products: Utilization and Future Prospects* (pp. 129-137). New York, NY: Springer US. 5. Mandal, S. K., Pasumarthy, A., Tadikonda, D., Mishra, B., Sumithra, B., Salla, S., ... & Panday, A. (2025). Nanobioremediation: A Sustainable Reclamation Method for Future Deployment. *Nano-Bioremediation for Wastewater Treatment*, 221-247. 6. Kalyanam, M., Sunder, K.S., Mishra, B., Das, M., Dey, H. and Govindugari, V.L., 2025. Algal-Mediated Nanoparticle Synthesis for Environmental Sustainability. In Nano-microbiology for Sustainable Development (pp. 53-69). Cham: Springer Nature Switzerland. 7. Mohanta, Y. K., Nongbet, A., Panda, J., Chakrabartty, I., Mohanta, T. K., & Mishra, B. (2024). Nanobiotechnology in genetic engineering for abiotic stress resistance in crops. In

		Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants (pp. 153-164). Academic Press. 8. Yadavalli, R., Reddy, C.N., Mishra, B., Chandrasekhar, K., Vineetha, Y. and Shalini, A., 2024. Potential Applications of Microalgae and Its Derivatives in Various Industries: A Future Bioeconomy. In Algal Biotechnology (pp. 223-237). CRC Press. 9. Patra, B., Das, N., Shamim, M. Z., Mohanta, T. K., Mishra, B., & Mohanta, Y. K. (2023). Dietary Natural Polyphenols Against Bacterial and Fungal Infections: An Emerging Gravity in Health Care and Food Industry. In Bioprospecting of Tropical Medicinal Plants (pp. 807-820). Cham: Springer Nature Switzerland. 10. Sumithra, B., Mandal, S. K., Mishra, B., Mounika, K. V. S. S. N., Caleb Joel Raj, J., & Aishwarya, C. V. S. (2023). Plant-Derived Drugs for Alzheimer's Disease and Other Neurological Disorders. In Bioprospecting of Tropical Medicinal Plants (pp. 1327-1345). Cham: Springer Nature Switzerland. 11. C. V. S. Aishwarya, J. Caleb Joel Raj, Sanjeeb Kumar Mandal, C. Nagendranatha Reddy & Bishwambhar Mishra* Smart Health Care by Harnessing the Internet of Things (IoT): Applications, Challenges, and Future Aspects. In: Sindhwani, N., Anand, R., Niranjanamurthy, M., Chander Verma, D., Valentina, E.B. (eds) IoT Based Smart Applications. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-04524-0_3 Publisher Name: Springer, Cham, ISBN: 978-3-031-04523-3 12. Alisha Chunduri, Niveditha Donthula,M. Jahanavi,Sowmya Golla,Pooja Aich,K. Sahithya,Bishwambhar Mishra, Sanjeeb Kumar Mandal,Anuranjeeta Role of Microbes in the Pharmaceutical Industry. In: Sanjay Kumar,Narendra Kumar,Shahid-ul-Islam (eds) Role of Microbes in Industrial Products and Processes. John Wiley & Sons. https://doi.org/10.1002/9781119901198, Publisher Name: John Wiley & Sons. ISBN: 978-1-119-901198 13. N.S.V. Lakshmayya,Y. Swarna Lekhya,Yugal Kishore Mohanta,Sanjeeb Kumar Mandal,Dinesh Chand Agrawal, Bishwambhar Mishra* Food reservatives from Microbial Origin: Industrial Perspectives. In: Sanjay Kumar,Narendra Kumar,Shahid-ul-Islam (eds) Role of Microbes in Industrial Products and Processes. John Wiley & Sons. https://doi.org/10.1002/9781119901198, Publisher Name: John Wiley & Sons. ISBN: 978-1-119-901198 14. Kanagaraj Suganya,Balraj Sudha, Bishwambhar Mishra, Bapatla Sumithra, Sanjeeb Kumar Mandal,Sundaravadivelu Sumathi Marine Microbes as a Resource for Novel Enzymes. In: Sanjay Kumar,Narendra Kumar,Shahid-ul-Islam (eds) Role of Microbes in Industrial Products and Processes. John Wiley & Sons. https://doi.org/10.1002/9781119901198, Publisher Name: John Wiley & Sons.ISBN: 978-1-119-901198 15. Santhoshini Hazari, Uzma Tabassum, Anum Jehan Siddiqui,Shivani Hazari,Addagatla Ravindar,Sanjeeb Kumar Mandal,Sanjay Kumar,Bishwambhar Mishra* Actinobacteria in Natural Product Research: Avenues and Challenges. In: Sanjay Kumar,Narendra Kumar,Shahid-ul-

Islam (eds) Role of Microbes in Industrial Products and Processes. John Wiley & Sons. https://doi.org/10.1002/9781119901198 Publisher Name: John Wiley & Sons. ISBN: 978-1-119-901198

16. Pooja Aich, Balraj Sudha,Kanagaraj Suganya, Bishwambhar Mishra,Bapatla Sumithra,Sanjeeb Kumar Mandal, Sundaravadivelu Sumathi Recovery of Valuable Products from Vegetable Wastes. In: Sanjay Kumar,Narendra Kumar,Shahid-ul-Islam (eds) Role of Microbes in Industrial Products and Processes. John Wiley & Sons. https://doi.org/10.1002/9781119901198 Publisher Name: John Wiley & Sons. ISBN: 978-1-119-901198
17. Mishra, B., Yadavalli, R., Vineetha, Y. and Reddy, C.N., 2021. Recent advancements and challenges of nanomaterials application in biofuel production. In Nanomaterials (pp. 7-55). Academic Press
18. Reddy C.N., Mishra B., Mandal S.K., Agrawal D.C., Kruthiventi C. (2021) An Insight into Pullulan and Its Potential Applications. In: Oliveira J., Radhouani H., Reis R.L. (eds) Polysaccharides of Microbial Origin. Springer, Cham. https://doi.org/10.1007/978-3-030-35734-4_15-1
19. Bangaru, A., Sree, K.A., Kruthiventi, C., Banala, M., Shreya, V., Vineetha, Y., Shalini, A., Mishra, B., Yadavalli, R., Chandrasekhar, K. and Reddy, C.N., 2022. Role of Enzymes in Biofuel Production: Recent Developments and Challenges. Bio-Clean Energy Technologies: Volume 1, pp.81-112.
20. Bishwambhar Mishra, Sunita Varjani, Monali Parida, Gayathri Priya Iragavarapu, Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, and Zengqiang Zhang,Film Based Packaging for Food Safety and Preservation: Issues and Perspectives, Springer Nature, Singapore Pte Ltd in Environmental Microbiology and Biotechnology,pp. 309-336. ISBN:978-981-15-7492-4
21. Sunita Varjani, Bishwambhar Mishra, Rajasri Yadavalli, Xuan-Thanh Bui, Mohammad J. Taherzadeh, Dinesh Chand Agrawal, Siming You, Jo-Shu Chang (2020).Petroleum waste biorefinery: A way towards a circular economy in : (Eds. Thallada Bhaskar et al.) Waste Biorefinery, Volume III, Elsevier, pp. 375-389 ISBN: 9780128218792
22. Bishwambhar Mishra, Rajasri Yadavalli, Y. Vineetha, C. Nagendranatha Reddy (2020). Recent advancements and challenges of nanomaterials application in biofuel production in “Nanomaterials Application in Biofuels and Bioenergy Production Systems” Elsevier. R. Praveen Kumar et al. (eds.), pp.7-55, ISBN: 978-0-12-822401-4
23. Bishwambhar Mishra, Monali Parida, Bhushan Vishal (2019) Microbial Bank Modernization in Bioengineering, Remodelling cellular architecture to industrial design: Shampa Sen (Ed), Taylor and Francis, CRC Press, United Kingdom (Accepted)
24. Bishwambhar Mishra, Sunita Varjani and G. Karthikeya Srinivasa Varma (2018) Agro-Industrial By-Products in the Synthesis of Food Grade Microbial Pigments: An Eco-Friendly Alternative. In: B. Parameswaran et al. (eds.), Green Bio-processes, 1st edn. Springer Nature, Singapore Pte Ltd , ISBN: 978-9811332623
25. Bishwambhar Mishra (2018) Machine Learning Approach to Overcome The Challenges In Theranostics: A Review. In:

		Shampa Sen (ed) Machine Learning and IoT: A Biological Perspective, 1st Edn. Taylor and Francis, CRC Press, United Kingdom (ISBN: 9781351029940) 26. Bishwambhar Mishra, Deveeka Zamare and A. Manikanta (2018) Selection and Utilization of Agro-industrial waste for Biosynthesis and Hyper-production of Pullulan ; A Review. In: Sunita J. Varjani (ed) Biosynthetic Technology and Environmental Challenges, 1st edn. Springer Nature, Singapore Pte Ltd, pp 89-103. DOI:10.1007/978-981-10-7434-9
	Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (**Attended and/or Organized**).	1. 5-Day Online Short Term Training Program (STTP) on 'Essentials of Regulatory Affairs in Biosimilars Development: Bench to Market Perspective' organized by Department of Biotechnology, held from 3rd to 7th June, 2025. 2. 5-days online workshop on "Waste to Energy"- held from 7 - 11 April 2025, organized by the Department of Biotechnology, Jaypee Institute of Information Technology, Noida. 3. Participated in the AICTE Recognized Faculty Development Programme on Enhancing Research Capabilities for Academic Career Progression Conducted by Entrepreneurship Development and Industrial Coordination Department from 17/03/2025 to 21/03/2025. 4. One-week Short-term Course/Faculty development program on "Nanomaterials and Their Applications in Biotechnology" from 20th to 24th January 2025, organized by the Department of Biotechnology, Dr B R Ambedkar National Institute of Technology, Jalandhar (Punjab), India. 5. Workshop titled Drug Discovery & Development Organised by FABA, India from 3rd Aug-16th Aug 2024 6. One week online FDP on "Quality Education through OBE" organized by CBIT during 22nd - 27th January 2024 7. 5-day faculty development program on Advanced Characterization Techniques for Materials & Biology organized by at Vellore Institute of Technology (VIT), Vellore, India. 8. International Seminar on "Innovations in Bacterial Signaling Dynamics: Driving Forces in Biohydrogen and Biomethane Production" jointly organized by the Department of Biotechnology, Institutional Innovation Council & Centre of Excellence in Life Sciences, PSGR Krishnammal College for Women, Coimbatore on 11.01.2024 9. 10. National webinar titled "Smile your way to good health", organized by Department of Chemistry, IADC-A on 17/07/2021 11. 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by AICTE from 12/07/2021 to 16/07/2021 12. Indo-Canada online workshop on "Nano-Bioengineering" jointly organized by the Department of Biotechnology, Indian Institute of Technology (IIT) Roorkee and Centre for Biomedical Research (CBR), University of Victoria (UVic) Canada 13.03.21 13. FDP on "Patent search and Filing" Organized by Andhra Unversity and TURNIP Innovation during 16.02.21-20.02.21

		14. FDP on " Good Laboratory Practices"organized by Dept. of life sciences , Sharda University, New Delhi8.02.2021-12.02.2021 15. Workshop on "Technology Commercialization" by Prof. Man Singh, Dean, Central University, Gujrat on 15.02.2021 16. Webinar on “Career Opportunities in Scientific Writing and Publishing” organized by Federation of Asian Biotech Associations (FABA)on 4.11.2020 17. 2-Weeks Comprehensive Online Patent Information Course organised by Turnip Innovations during 21.10.2020-4.11.2020 18. Webinar on Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27th Jun by MHRD' on 27.07.2020 19. International e-conference on Material Processing and Characterization on 18th and 19th Septemcer, 2020 organized by CBIT, Hyderabad 20. "Agri-Biotechnology: Progress and Prospects” held on 7 October 2020 Federation of Asian Biotech Associations (FABA) on 7.10.202 Present and future opportunities in the biopharma and vaccine industries" Organized by FABA Academy on 26th June, 2021 21. FDP on "Six weeks (Virtual) Technology Based Entrepreneurship Development Programme on “Bio Techniques for Enabling Bioentrepreneurship, Sponsored by NSTEDB,Department of Science and Technology, Government of India, New Delhi." 08th February to 22nd March, 2021 22. Attended one Week online Faculty Development Program on “Waste to Bioenergy” organized by Sharda University, NCR and Maharashtra Institute of Technology, Aurangabad during 28 June to 4 July, 2020 23. Organized a One Week webinar cum FDP Series on “Current Progress and Future Prospects of Biotechnology” organized by Department of Biotechnology, Chaitanya Bharathi Institute of Technology (A), Hyderabad in association with Andhra Pradesh Akademi of Sciences during 8-13 June 2020 24. Attended Indo-UK Virtual Conference on ‘Current Innovations and the Future of Therapeutic Developments’ CIFTD-2020 at Vellore Institute of Technology (VIT), Vellore, India and Swansea University, United Kingdom during 1st-3rd June, 2020 25. Attended one week Online faculty Development Program on “Outcome Based Education (OBE) and NBA Accreditation Process (UG) organized by Chaitanya Bharathi Institute of Technology (A), Hyderabad from 28.05.2020 to 01.06.2020 26. Attended Five Day national Level Online Faculty Development Program on “Artificial Intelligence” organized by Department of CSE, IT and MCA in collaboration with Brain-O-Vision India Pvt. Ltd. During 22-26 May 2020 27. Attended International Conference on “Advances in bioprocessing of agri-food resources” organized by CSIR-Central Food Technological Research Institute (CFTRI); Association of Food Scientists and Technologists (India); DRDO-Defence Food Research Laboratory (DFRL), December 14, 2019 – December 16, 2019

		28. Co-Chaired the session in International Conference on Biotechnology and Bioengineering Trends-2017 on 25th March, 2017 at JNTU, Hyderabad.
	Details of Journal Publications/ Conferences (**National and International**)	Details provided below
	International Journal 1. Mohanta, Y.K., Mishra, A.K., Lakshmayya, N.S.V., Panda, J., Thatoi, H., Sarma, H., Rustagi, S., Baek, K.H. and Mishra, B., 2025. Agro-Waste-Derived Bioplastics: Sustainable Innovations for a Circular Economy. Waste and Biomass Valorization, pp.1-25. [SCOPUS Indexed; IF: 3.1] 2. Mishra, B., Kallem, P., Yadavalli, R., Mandal, S.K., Reddy, C.N., Sumithra, B., Lakshmayya, N.S. and Bana, F., 2025. Industrial wastewater treatment using extracellular polymer substances/bioflocculants: a review. Applied Water Science, 15(3), pp.1-20. [SCOPUS Indexed; IF: 5.8] 3. Mishra, B., Panda, J., Mishra, A.K., Nath, P.C., Nayak, P.K., Mahapatra, U., Sharma, M., Chopra, H., Mohanta, Y.K. and Sridhar, K., 2024. Recent advances in sustainable biopolymer-based nanocomposites for smart food packaging: A review. International Journal of Biological Macromolecules, p.135583. [SCOPUS Indexed; IF: 7.7] 4. Muthusamy, P., Murugan, S., Mandal, S.K., Mishra, B., Mohanta, Y.K., Sarma, H. and Narayan, M., 2024. Utilizing banana peduncle as an affordable bio-adsorbent for efficient removal of lead ions from water and industrial effluents. Sustainable Chemistry for the Environment, 7, p.100150. 5. Mohanta, Y.K., Biswas, K., Mishra, A.K., Patra, B., Mishra, B., Panda, J., Avula, S.K., Varma, R.S., Panda, B.P. and Nayak, D., 2024. Amelioration of gold nanoparticles mediated through Ocimum oil extracts induces reactive oxygen species and mitochondrial instability against MCF-7 breast carcinoma. RSC advances, 14(38), pp.27816-27830. [SCOPUS Indexed; IF: 3.9] 6. Thapa, D., Kumar, V., Naik, B., Kumar, V., Gupta, A.K., Mohanta, Y.K., Mishra, B. and Rustagi, S., 2024. Harnessing probiotic foods: managing cancer through gut health. Food Science and Biotechnology, 33(9), pp.2141-2160. [SCOPUS Indexed; IF: 3.12] 7. Doolam, B., Mishra, B., Surabhi, D., Mandal, S.K., Sada, S., Reddy, N.R., Panda, J., Rustagi, S., Mishra, A.K. and Mohanta, Y.K., 2024. A systematic review of potential bioactive compounds from Saccharomyces cerevisiae: exploring their applications in health promotion and food development. Environment, Development and Sustainability, pp.1-38. [SCOPUS Indexed; IF: 5.6] 8. Panda, J., Mishra, A. K., Mohanta, Y. K., Patowary, K., Rauta, P. R., & Mishra, B. (2024). Exploring Biopolymer for Food and Pharmaceuticals Application in the Circular Bioeconomy: An Agro-Food Waste-to-Wealth Approach. Waste and Biomass Valorization, 1-31. [SCOPUS Indexed; IF: 3.449] 9. Nath, P. C., Mishra, A. K., Sharma, R., Bhunia, B., Mishra, B., Tiwari, A., ... & Sridhar, K. (2024). Recent advances in artificial intelligence towards the sustainable future of agri-food industry. Food Chemistry, 138945. [SCOPUS Indexed; IF: 7.51] 10. Mishra, B., Mishra, A. K., Mohanta, Y. K., Yadavalli, R., Agrawal, D. C., Reddy, H. P., ... & Panda, J. (2024). Postbiotics: the new horizons of microbial functional bioactive compounds in food preservation and security. Food Production, Processing and Nutrition, 6(1), 28. [SCOPUS Indexed; IF: 4.78] 11. Pyla, M., Kankipati, S., Sumithra, B., Mishra, P. K., Mishra, B., Mandal, S. K., ... & Kamal, M. A. (2024). Bacterial Proteins and Peptides as Potential Anticancer Agents: A Novel Search for Protein-based Therapeutics. Current Medicinal Chemistry. [SCOPUS Indexed; IF: 4.10] 12. Wagh, M. S., Sowjanya, S., Nath, P. C., Chakraborty, A., Amrit, R., Mishra, B., ... & Mohanta, Y. K. (2024). Valorisation of agro-industrial wastes: circular bioeconomy and biorefinery process–a sustainable symphony. Process Safety and Environmental Protection. [SCOPUS Indexed; IF: 7.926] 13. Sharma, R., Nath, P. C., Mohanta, Y. K., Bhunia, B., Mishra, B., Sharma, M., ... & Sridhar, K. (2023). Recent advances in cellulose-based sustainable materials for wastewater treatment: An overview. International Journal of Biological Macromolecules, 128517. [SCOPUS Indexed; IF: 8.2] 14. Lakshmayya, N. S. V., Mishra, A. K., Mohanta, Y. K., Panda, J., Naik, B., Mishra, B., & Varma, R. S. (2023). Essential oils-based nano-emulsion system for food safety and preservation: Current status and future prospects. Biocatalysis and Agricultural Biotechnology, 102897. [SCOPUS Indexed; IF: 4.0] 15. Reddy, C.N., Kallem, P., Mounika, K.V.S.S.N., Muqeet, A., Raj, J.C.J., Aishwarya, C.V.S., Gupta, R.K., Polisetti, V., Mishra, B., Rajasri, Y. and Mandal, S.K., 2023. Review of microplastic degradation: Understanding metagenomic approaches for microplastic degrading organisms. Polymer Testing, p.108223. [SCOPUS Indexed; IF: 4.93] 16. Mishra, B., Mohanta, Y. K., Reddy, C. N., Reddy, S. D. M., Mandal, S. K., Yadavalli, R., & Sarma, H. (2023). Valorization of agro-industrial biowaste to biomaterials: An innovative circular bioeconomy approach. Circular Economy, 100050. [SCOPUS Indexed] 17. Mishra, B., Muthupandian, S., Barabadi, H., Tayung, K., & Mohanta, Y. K. (2023). Anti-cancer bioactive molecules from microbial sources. Frontiers in Pharmacology, 14, 1190354. [SCOPUS Indexed; IF: 5.988] 18. Yadavalli, R., Valluru, P., Raj, R., Reddy, C. N., & Mishra, B. (2023). Biological detoxification of mycotoxins: Emphasizing the role of algae. Algal Research, 71, 103039. [SCOPUS Indexed; IF: 5.51]	

19. Mishra, B., Mohanta, Y.K., Varjani, S. et al. A critical review on valorization of food processing wastes and by-products for pullulan production. J Food Sci Technol (2022). https://doi.org/10.1007/s13197-022-05490-5
20. Mishra B, Mishra AK, Kumar S, Mandal SK, NSV L, Kumar V, Baek K-H, Mohanta YK. Antifungal Metabolites as Food Bio-Preservative: Innovation, Outlook, and Challenges. Metabolites. 2022; 12(1):12. https://doi.org/10.3390/metabo12010012
21. Bishwambhar Mishra, Sunita Varjani, Dinesh Chand Agrawal, Sanjeeb Kumar Mandal, Huu Hao Ngo, Mohammad J. Taherzadeh, Jo-Shu Chang, Siming You, Wenshan Guo (2020) Engineering biocatalytic material for the remediation of pollutants: A comprehensive review, *Environmental Technology & Innovation,*101063, https://doi.org/10.1016/j.eti.2020.101063
22. Bishwambhar Mishra, Sunita Varjani, Ipshita Pradhan, Nakkeeran Ekambaram,Jose A. Teixeira, Huu Hao Ngo, Wenshan Guo (2020) Insights into Interdisciplinary Approaches for Bioremediation of Organic Pollutants: Innovations, Challenges and Perspectives, *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* https://doi.org/10.1007/s40011-020-01187-x
23. Bishwambhar Mishra, Sunita Varjani, Gopalakrishnan Kumar, Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, Raveendran Sindhu, Parameswaran Binod, Eldon R Rene and Zengqiang Zhang (2020) Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. *Energy & Environment*. https://doi.org/10.1177/0958305X19896781
24. Bishwambhar Mishra, Sunita Varjani (2019) Evaluation of pullulan production by a newly isolated *Micrococcus luteus*, *Indian Journal of Experimental Biology* , Vol. 57, pp.813-820
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