



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

46
years

Department of Biotechnology

Faculty Publication List

AY 2024-25

International Journals

- 1) Yugal Kishore Mohanta, Awdhesh Kumar Mishra, N. S. V. Lakshmayya, Jibanjyoti Panda, Hrudaynath Thatoi, Hemen Sarma, Sarvesh Rustagi, Kwang-Hyun Baek, **Bishwambhar Mishra**. Agro-Waste-Derived Bioplastics: Sustainable Innovations for a Circular Economy, Waste and Biomass Valorization (2025) <https://doi.org/10.1007/s12649-025-03070-0> [Scopus/WoS Indexed] (SCIE)
- 2) P. Mullai, S.M. Sambavi, S. Vishali, **K. Dharmalingam**, S. Sutha, S. Dinesh, T. Anandhi, Md Abdullah Al Noman, Abubakar M. Bilyaminu, Anina James, An integrated review on the role of different biocatalysts, process parameters, bioreactor technologies and data-driven predictive models for upgrading biogas, Journal of Environmental Management, Volume 384, (2025) 125508, <https://doi.org/10.1016/j.jenvman.2025.125508> [Scopus/WoS Indexed] (SCIE)
- 3) **Mishra, Bishwambhar**, Parashuram Kallem, Rajasri Yadavalli, Sanjeeb Kumar Mandal, C. Nagendranatha Reddy, B. Sumithra, N. S. Lakshmayya, and Fawzi Bana. "Industrial wastewater treatment using extracellular polymer substances/biofloculants: a review." Applied Water Science 15, no. 3 (2025): 1-20. [Scopus/WoS Indexed] (SCIE)
- 4) Mullai, P., S. Vishali, and **K. Dharmalingam**. "Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater." Journal of the Taiwan Institute of Chemical Engineers 166 (2025): 105381. [Scopus/WoS Indexed] (SCIE)
- 5) Pyla, Mahitha, Sanjana Kankipati, **Bapatla Sumithra**, Piyush Kumar Mishra, **Bishwambhar Mishra, Sanjeeb Kumar Mandal**, Jibanjyoti Panda et al. "Bacterial Proteins and Peptides as Potential Anticancer Agents: A Novel Search for Protein-based Therapeutics." Current Medicinal Chemistry (2025). [Scopus/WoS Indexed] (SCIE)
- 6) **Mishra, Bishwambhar**, Jibanjyoti Panda, Awdhesh Kumar Mishra, Pinku Chandra Nath, Prakash Kumar Nayak, Uttara Mahapatra, Minaxi Sharma, Hitesh Chopra, Yugal Kishore Mohanta, and Kandi Sridhar. "Recent advances in sustainable biopolymer-based nanocomposites for smart food packaging: A review." International Journal of Biological Macromolecules (2024): 135583. [Scopus/WoS Indexed] (SCIE)
- 7) 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/WoS Indexed] (SCIE)
- 8) Muthusamy, P., S. Murugan, **Sanjeeb Kumar Mandal, Bishwambhar Mishra**, Yugal Kishore Mohanta, Hemen Sarma, and Mahesh Narayan. "Utilizing Banana Peduncle as an Affordable Bio-Adsorbent for Efficient Removal of Lead Ions from Water and Industrial Effluents." *Sustainable Chemistry for the Environment* (2024): 100150. [Scopus/WoS Indexed] (SCIE)
- 9) Lakshmayya, Nunna SV, **Ashoutosh Panday, Rajasri Yadavalli, Chintakunta N. Reddy, Sanjeeb Kumar Mandal**, Dinesh Chand Agrawal, and **Bishwambhar Mishra**. "Food Contamination with Micro-plastics: Occurrences, Bioavailability, Human Vulnerability, and Prevention." *Current Nutrition & Food Science* 20, no. 7 (2024): 797-810. [Scopus/WoS Indexed] (SCIE)

Book

- 1) Mohanta, Yugal Kishore, **Bishwambhar Mishra**, and Ramesh Namdeo Pudake. "Nano-microbiology for Sustainable Development." Springer Cham (2025), ISBN: 978-3-031-78844-4 , <https://doi.org/10.1007/978-3-031-78845-1>

Book Chapters

- 1) **Mandal, Sanjeeb Kumar**, Alekhya Pasumarthy, Dhruv Tadikonda, **Bishwambhar Mishra**, **B. Sumithra**, **Sumithra Salla**, D. Mahaboob Basha, and **Ashoutosh Panday**. "Nanobioremediation: A Sustainable Reclamation Method for Future Deployment." *Nano-Bioremediation for Wastewater Treatment* (2025): 221-247.
- 2) Varsha, Vanga Sri, Tanmayi Boreda, Sanjana Reddy Pailla, Yashasvi Kambhampati, T. Gourav, **Rajasri Yadavalli**, **G. Vijaya Laxmi**, Sphoorthy Nadimpalli, and **C. Nagendranatha Reddy**. "Nanotechnology and Microbes: Revolutionizing Water Management." In *Nano-microbiology for Sustainable Development*, pp. 293-329. Cham: Springer Nature Switzerland, 2025.
- 3) Kalyanam, Mahima, Kirthikha Shanmuga Sunder, **Bishwambhar Mishra**, Mautushi Das, Harisankar Dey, and **Vijaya Laxmi Govindugari**. "Algal-Mediated Nanoparticle Synthesis for Environmental Sustainability." In *Nano-microbiology for Sustainable Development*, pp. 53-69. Cham: Springer Nature Switzerland, 2025.
- 4) **Rajasri Yadavalli**, **C. Nagendranatha Reddy**, **Bishwambhar Mishra**, K. Chandrasekhar, Y Vineetha, A. Shalini "Potential Applications of Microalgae and Its Derivatives in Various Industries: A Future Bioeconomy". In *Algal Biotechnology Applications for Industrial Development and Human Welfare*. Edition 1st Edition, First Published 2024, Pages 15, Imprint, CRC Press
- 5) Singh, Navodit Kumar, Richa Katiyar, Ranjana Kumari, **Bishwambhar Mishra**, **Sanjeeb Kumar Mandal**, and Sanjay Kumar. "Nutraceutical Regulation In Asian Countries." In *Formulations, Regulations, and Challenges of Nutraceuticals*, pp. 127-152. Apple Academic Press, 2025.
- 6) Srihita, Adepu, Ananya Suma Konda, Amogh Bellurkar, **B. Sumithra**, and **Bishwambhar Mishra**. "Private Artificial Intelligence (AI) in Social Media." In *Sustainable Development Using Private AI*, pp. 240-260. CRC Press, 2025.
- 7) **Varimadugu Aruna**, Navya Sree Duggi Reddy, Balaji Doolam, Jyothika Meenakshi Kambhampati, Chunduru Sai Hari, Hara Sudheshna "Antimicrobial edible biofilms for food packaging – nano-based technologies " In *Antimicrobials for Sustainable Food Storage*, pp.1-24, CRC Press, 2024.

AY 2023-24

International Journals

- 1) Vyshnava, Satyanarayana Swamy, Surendra Babu Numbury, **Obula Reddy Chittepu**, Kamala Prasad Vasikarla, Roja Rani Anupalli, Peddiahgari Vasu Govardhana Reddy, and Muralidhara Rao Dowlathabad. "Deciphering breast cancer cell heterogeneity: a quantum dot-conjugate approach employing MCF-7 and THP-1 co-cultures." *New Journal of Chemistry* 48, no. 29 (2024): 13144-13154. [Scopus/WoS Indexed] (SCIE)
- 2) Thapa, Devika, Vijay Kumar, Bindu Naik, Vivek Kumar, Arun Kumar Gupta, Yugal Kishore Mohanta, **Bishwambhar Mishra**, and Sarvesh Rustagi. "Harnessing probiotic foods: managing cancer through gut health." *Food Science and Biotechnology* (2024): 1-20. [Scopus/WoS Indexed] (SCIE)
- 3) Doolam, Balaji, **Bishwambhar Mishra**, Divyamshu Surabhi, **Sanjeeb Kumar Mandal**, Spoorthi Sada, Naru Rakesh Reddy, Jibanjyoti Panda, Sarvesh Rustagi, Awdhesh Kumar Mishra, and Yugal Kishore Mohanta. "A systematic review of potential bioactive compounds from *Saccharomyces cerevisiae*: exploring their applications in health promotion and food development." *Environment, Development and Sustainability* (2024): 1-38. [Scopus/WoS Indexed] (SCIE)
- 4) Panda, Jibanjyoti, Awdhesh Kumar Mishra, Yugal Kishore Mohanta, Kaustuvmani Patowary, Pradipta

- Ranjan Rauta, and **Bishwambhar Mishra**. "Exploring Biopolymer for Food and Pharmaceuticals Application in the Circular Bioeconomy: An Agro-Food Waste-to-Wealth Approach." *Waste and Biomass Valorization* (2024): 1-31. [Scopus/WoS Indexed] (SCIE)
- 5) Mullai, P., S. Vishali, and **K. Dharmalingam**. "Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater." *Journal of the Taiwan Institute of Chemical Engineers* (2024): 105381[Scopus/WoS Indexed] (SCIE)
 - 6) Nath, Pinku Chandra, Awdhesh Kumar Mishra, Ramesh Sharma, Biswanath Bhunia, **Bishwambhar Mishra**, Ajita Tiwari, Prakash Kumar Nayak et al. "Recent advances in artificial intelligence towards the sustainable future of agri-food industry." *Food Chemistry* (2024): 138945. [Scopus/WoS Indexed] (SCIE)
 - 7) **Bishwambhar Mishra**; Awdhesh Kumar Mishra; Yugal Kishore Mohanta; **Rajasri Yadavalli**; Dinesh Chand Agrawal; Himavarshini Parvath Reddy; Rithika Gorrepati; **Chintakunta Nagendranatha Reddy**; **Sanjeeb Kumar Mandal**; Mohammad Zaki Shamim; Jibanjyoti Panda Food Production, Processing and Nutrition. Postbiotics: The New Horizons of Microbial Functional Bioactive Compounds in Food Preservation and Security. *Food Production, Processing and Nutrition* (Accepted) [Scopus/WoS Indexed] (ESCI)
 - 8) Mahitha Pyla Sanjana Kankipati, **B. Sumithra**, Piyush Kumar Mishra, **Bishwambhar Mishra**, **Sanjeeb Kumar Mandal**, Jibanjyoti Panda, Hitesh Chopra, Satya Kumar Avula, Mohamed S. Attia, Yugal Kishore Mohanta and Mohammad Amjad Kamal . Bacterial proteins and peptides as potential anticancer agents: A novel search for protein-based therapeutics, *Current Medicinal Chemistry* (Accepted) [Scopus/WoS Indexed] (SCIE)
 - 9) **Lakshmayya NS**, Mishra AK, Mohanta YK, Panda J, Naik B, **Mishra B**, Varma RS. Essential oils-based nano-emulsion system for food safety and preservation: Current status and future prospects. *Biocatalysis and Agricultural Biotechnology*. 2023 Oct 16:102897. [Scopus/WoS Indexed] (ESCI)
 - 10) Mogilicharla A, Swapna V, **Yadavalli R**. Effect of semi batch and fed batch addition of glucose on alkaline protease production: a multi-objective optimisation approach. *International Journal of Engineering Systems Modelling and Simulation*. 2023;14(4):206-13. [Scopus/WoS Indexed] (ESCI)
 - 11) **Reddy CN**, Kallem P, Mounika KV, Muqeet A, Raj JC, Aishwarya CV, Gupta RK, Polisetti V, **Mishra B**, **Rajasri Y**, **Mandal SK**. Review of microplastic degradation: Understanding metagenomic approaches for microplastic degrading organisms. *Polymer Testing*. 2023 Sep 27:108223. [Scopus/WoS Indexed] (SCIE)
 - 12) **Mishra B**, Mohanta YK, **Reddy CN**, **Reddy SD**, **Mandal SK**, **Yadavalli R**, Sarma H. Valorization of agro-industrial biowaste to biomaterials: An innovative circular bioeconomy approach. *Circular Economy*. 2023 Aug 19:100050. [Scopus Indexed]
 - 13) Basha SF, Reddy YP, Settipalli PC, Prasad TN, Kumar VS, Basha GM, **Aruna V**, Mulakayala N, Anwar S. An Efficient Multi-Functionalized Synthesis of N-Arylated Indole-3-Substituted-2-Benzimidazoles as Anticancer Agents. *Letters in Organic Chemistry*. 2023 Aug 1;20(8):701-10. [Scopus/WoS Indexed] (SCIE)
 - 14) Mullai P, Vishali S, Sambavi SM, **Dharmalingam K**, Yogeswari MK, Raja VV, Bharathiraja B, Büşra B, Abubackar HN, Al Noman MA, Rene ER. Energy generation from bioelectrochemical techniques: Concepts, reactor configurations and modeling approaches. *Chemosphere*. 2023 Aug 28:139950. [Scopus/WoS Indexed] (SCIE)

Book Chapters

- 1) Poornima, Arumugam, Subramani Yashini Vidhya, Kanagaraj Suganya, Balraj Sudha, Sundaravadivelu Sumathi, **Sanjeeb Kumar Mandal**, and **Sumithra Salla**. "Appraising the Natural Bio-Processes over

Thermal Treatments to Treat Municipal Solid Waste: A Step Toward a More Sustainable Environment." In *Material and Energy Recovery from Solid Waste for a Circular Economy*, pp. 152-174. CRC Press.

- 2) **Sumithra Salla**, Jyothika Meenakshi Kambhampati, Divyamshu Surabhhi, Chaitra Gali, Chunduru Sai Hari Hara Sudheshna, **Sanjeeb Kumar Mandal**. "Navigating the horizon: exploring futuristic trends in pharmaceuticals and drug delivery systems" In *Futuristic Trends in Pharmacy & Nursing*, Volume 3, Pages: 281-304, Publisher IIP Series
- 3) **Sumithra Salla**, Alekhya Pasumarthu, Dhruv Tadikonda, Tilak Parsha, **Sanjeeb Kumar Mandal**. "Private AI in Education Critical Challenges and Aspects of Enhancement Strategies". In *Sustainable Development Using Private AI*, Edition1st Edition, First Published2024, Pages23, Imprint, CRC Press
- 4) **Sumithra Salla**, Grandhi Manognadevi, Kanuganti Akhila, **Sanjeeb Kumar Mandal**. "Private AI in Health Care Technological Constraints, Future Directions, and Emerging Trends" . In *Sustainable Development Using Private AI*, Edition1st Edition, First Published2024, Pages23, Imprint, CRC Press
- 5) **Sanjeeb Kumar Mandal**, Jyothika Meenakshi Kambhampati, V. Shreya Sharma, Valluru Sai Leela Sirisha, Pokala Sharvani, **C Nagendranatha Reddy**, **Rajasri Yadavalli**, **Bishwambhar Mishra** . Gene Prediction Through Metagenomics. In: *Microbial Metagenomics in Effluent Treatment Plant*. Elsevier. (Accepted)
- 6) **Rajasri Yadavalli**, Ch S H Sudheshna, Kolluru Naga Venkata Sujatha, Peri Shreenija, **C Nagendranatha Reddy**, **Bishwambhar Mishra**, **Sanjeeb Kumar Mandal** Recent advances in reactor design for treatment In: *Aerobic and Anaerobic Microbial Treatment of Industrial Wastewater of industrial wastewater*. CRC Press. ISBN: 978-1-032-46358-2 (In Press)
- 7) **C Nagendranatha Reddy**, Divyanshu S, Charan MCK, Pravalila R, Hamshini K, Kavaya P, **Rajasri Yadavalli**, **Bishwambhar Mishra**, **Sanjeeb Kumar Mandal**. Aerobic and anaerobic digestion of Textile waste water, In: *Aerobic and Anaerobic Microbial Treatment of Industrial Wastewater of industrial wastewater*. CRC Press. ISBN: 978-1-032-46358-2 (In Press)
- 8) Vanga Sri Varsha, Tanmayi Boreda, Adithi Reddi Kamana, Sanjana Reddy Pailla, Yashasvi Kambhampati, Gourav T, **Ashoutosh Panday**, **Sanjeeb Kumar Mandal**, **Bishwambhar Mishra**, Food Colours: Toxicology and food safety. In: *Microbial Pigments Applications in Food and Beverage Industry*, CRC Press . ISBN 9781032392639 (In Press)
- 9) **Rajasri Yadavalli**, **C. Nagendranatha Reddy**, **Bishwambhar Mishra**, Chandrasekhar K, Vineetha Y, A Shalini, Potential applications of Microalgae and its derivatives in various industries: A Future Bioeconomy In: *Algal Biotechnology: Current Trends, Challenges and Future Prospects for a Sustainable Environment (1st ed.)*. CRC Press.<https://doi.org/10.1201/9781003219156>(In Press)
- 10) Ch S. H. Sudheshna, Jyothika Meenakshi Kambhampati, Chinthakindhi Samanth, Gali Chaitra, Harika Reddy Pulipelli, Bhushan Vishal, **Nagendranatha Reddy C**, **Sanjeeb Kumar Mandal**, Divya Prema Suroju, Dinesh Chand Agrawal, **Bishwambhar Mishra** , Green carbon nanomaterials and their application in food, agriculture, and biomedicine. In: *Carbon-Based Nanomaterials in Biosystems*.<https://doi.org/10.1016/B978-0-443-15508-6.00009-9>(In Press)
- 11) Balaji Doolam, Divyamshu Surabhi, Chandan Kumar Gautam, **Rajasri Yadavalli**, Naru Rakesh Reddy, Aishwarya Kulkarni, Karthikeya S V Gottimukkala, **Sanjeeb Kumar Mandal**, **Bishwambhar Mishra** , Role of different types of carbon nanotubes in food sciences and food sensing applications, In: *Carbon-Based Nanomaterials in Biosystems*.<https://doi.org/10.1016/B978-0-443-15508-6.00005-1> (In Press)
- 12) Mohammad Zaki Shamim,Pampi Deka,Yugal Kishore Mohanta,**Bishwambhar Mishra**,Kunal Biswas,Awdhesh Kumar Mishra, Implications of caged molecular structure of buckminster fullerenes in food sciences and industry applications. In: *Carbon-Based Nanomaterials in Biosystems*. <https://doi.org/10.1016/B978-0-443-15508-6.00008-7> (In Press)

- 13) **Sumithra B, Mandal SK, Mishra B**, Mounika KV, Caleb Joel Raj J, Aishwarya CV. Plant-Derived Drugs for Alzheimer's Disease and Other Neurological Disorders. In *Bioprospecting of Tropical Medicinal Plants 2023 Aug 31* (pp. 1327-1345). Cham: Springer Nature Switzerland. ISBN: 978-3-031-28779-4
- 14) Patra B, Das N, Shamim MZ, Mohanta TK, **Mishra B**, Mohanta YK. Dietary Natural Polyphenols Against Bacterial and Fungal Infections: An Emerging Gravity in Health Care and Food Industry. In *Bioprospecting of Tropical Medicinal Plants 2023 Aug 31* (pp. 807-820). Cham: Springer Nature Switzerland. ISBN: 978-3-031-28779-4
- 15) Balraj Sudha, Kanagaraj Suganya, **Bishwambhar Mishra, Govindugari Vijaya Laxmi, Sanjeeb Kumar Mandal***, Sanjay Kumar and Sundaravadivelu Sumathi. Recent Advances in the Application of Marine Natural Products as Antimicrobial Agents In *Frontiers in Antimicrobial Agents*. Bentham Science Publishers. (ISSN: 2452-2589)
- 16) **Reddy, Chittepu Obula**, Balaji Doolam, Naru Rakesh Reddy, Divyamshu Surabhi, Jyothika Meenakshi Kambhampati, Surabhi Nagamanju, and K. Rajagopal. "Exploring the Potential of Biomedical Waste Management: Transforming Challenges into Opportunities for Sustainable Solutions." In *From Waste to Wealth*, pp. 1179-1206. Singapore: Springer Nature Singapore, 2024.
- 17) Vasistha, V., Bhan, S., Rajagopal, K., Reddy, **Chittepu Obula** (2024). Production of Biodiesel from Waste Cooking Oil. In: Arya, R.K., Verros, G.D., Verma, O.P., Hussain, C.M. (eds) *From Waste to Wealth*. Springer, Singapore. https://doi.org/10.1007/978-981-99-7552-5_16
- 18) **Reddy, Chittepu Obula**, Pokala, S., Sada, S., Pokala, B. (2024). Effective Utilization of Tannery Waste for the Fabrication of Construction Materials. In: Arya, R.K., Verros, G.D., Verma, O.P., Hussain, C.M. (eds) *From Waste to Wealth*. Springer, Singapore. https://doi.org/10.1007/978-981-99-7552-5_37
- 19) **Reddy, Chittepu Obula**, and V. Shreya Sharma. "Newspaper Waste Management and Various Technologies and Approaches for Converting Newspaper Waste into Valuable Products." In *From Waste to Wealth*, pp. 1493-1521. Singapore: Springer Nature Singapore, 2024.
- 20) **Reddy, Chittepu Obula**, and Valluru Saileela Sirisha. "Management of Floral Waste, as Well as Various Techniques and Approaches for Converting the Floral Waste into Value-Added Products." In *From Waste to Wealth*, pp. 825-838. Singapore: Springer Nature Singapore, 2024.
- 21) **ChittepuObula Reddy**, Kurapati Rajagopal, and Aparna Prasamsa Published a Book on Biomass; A valuable Product in Lap Lamber Publishers in 2022.
- 22) **Govindugari Vijaya Laxmi and K Dharmalingam**. (2022) The In Vitro Protocols for Micropropagation of *Catharanthus roseus* (L.) G. Don; Chapter 29 Bentham Science Publishers Pte .Ltd (Accepted for publication/in press)

2022-23

International Journals

- 1) **Mishra B**, Muthupandian S, Barabadi H, Tayung K, Mohanta YK. Anti-cancer bioactive molecules from microbial sources. *Frontiers in Pharmacology*. 2023 Apr 13;14:1190354. [**Scopus/WoS Indexed**] (**SCIE**)
- 2) Vasu P, **Dharmalingam K**, Ramachandran T, Prakash C. Fabrication and Characterization of Organo Modified Polysiloxane Softened Linen Fabrics by On-Loom Integrated Finishing. *AATCC Journal of Research*. 2023 May 24:24723444231172225. [**Scopus/WoS Indexed**] (**SCIE**)
- 3) **Yadavalli R**, Valluru P, Raj R, **Reddy CN, Mishra B**. Biological detoxification of mycotoxins: Emphasizing the role of algae. *Algal Research*. 2023 Mar 4:103039. [**Scopus/WoS Indexed**] (**SCIE**)
- 4) **Govindugari VL**, Golla S, Reddy SD, Chunduri A, Nunna LS, Madasu J, Shamshabad V, Bandela M,

Suryadevara V. Thwarting Alzheimer's Disease through Healthy Lifestyle Habits: Hope for the Future. *Neurology International*. 2023 Jan 28;15(1):162-87. [Scopus/WoS Indexed] (ESCI)

- 5) Chunduri A, Reddy SD, Jahanavi M, **Reddy CN**. Gut–Brain Axis, Neurodegeneration and Mental Health: A Personalized Medicine Perspective. *Indian Journal of Microbiology*. 2022 Dec;62(4):505-15. [Scopus/WoS Indexed] (SCIE)
- 6) Das N, Shende AP, **Mandal SK**, Ojha N. Biologia Futura: treatment of wastewater and water using tannin-based coagulants. *Biologia Futura*. 2022 Sep;73(3):279-89. [Scopus/WoS Indexed] (SCIE)

National Journals

- 1) M. Venkateswaralu, **Kurapati Rajagopal**, Y. S. Reddy, ChittepuObula Reddy. Investigating ground water contamination due to land-fill leachate, *Indian Journal of Environmental Protection*, Vol 42, No. 2, July 2022. [Scopus Indexed]

Book Chapters

- 1) Reddy SD, Deepika N, Dropathi MR, Vishwanutha S, Daaman JD, **Reddy CN**, **Yadavalli R**. Factors affecting the microalgal biomass productivity in photobioreactors. In *Current Developments in Biotechnology and Bioengineering 2023 Jan 1* (pp. 59-88). Elsevier.(ISBN: 978-0-323-99911-3) [Scopus Indexed]
- 2) **Aruna V**, Mundru K, Aishwarya CV, Mokkapati V, Dhulipalla BS. Metal-based nanosystems and the evaluation of their antimicrobial activity. In *Antimicrobial Nanosystems 2023 Jan 1* (pp. 149-190). Elsevier. (ISBN: 9780323911566) [Scopus Indexed]
- 3) Raj CJ, Aishwarya CV, Mounika KV, **Mishra B**, **Sumithra B**, Vishal B, **Mandal SK**. Deciphering the Nexus Between Oxidative Stress and Spermatogenesis: A Compendious Overview. In *Oxidative Stress and Toxicity in Reproductive Biology and Medicine: A Comprehensive Update on Male Infertility Volume II 2022 Dec 7* (pp. 1-16). Cham: Springer International Publishing.(ISBN: 978-3-031-12965-0) [Scopus Indexed]
- 4) Aich P, Sudha B, Suganya K, **Mishra B**, **Sumithra B**, **Mandal SK**, Sumathi S. Recovery of Valuable Products from Vegetable Wastes. *Role of Microbes in Industrial Products and Processes*. 2022 Oct 10:255-78. John Wiley & Sons. (ISBN: 978-1-119-901198) [Scopus Indexed]
- 5) Hazari S, Tabassum U, Siddiqui AJ, Hazari S, Ravindar A, **Mandal SK**, Kumar S, **Mishra B**. Actinobacteria in Natural Product Research: Avenues and Challenges. *Role of Microbes in Industrial Products and Processes*. 2022 Oct 10:171-93. John Wiley & Sons.(ISBN: 978-1-119-901198) [Scopus Indexed]
- 6) Suganya K, Sudha B, **Mishra B**, **Sumithra B**, **Mandal SK**, Sumathi S. Marine Microbes as a Resource for Novel Enzymes. *Role of Microbes in Industrial Products and Processes*. 2022 Oct 10:107-44. John Wiley & Sons. (ISBN: 978-1-119-901198) [Scopus Indexed]
- 7) Lakshmayya NS, Swarna Lekhya Y, Mohanta YK, **Mandal SK**, Agrawal DC, **Mishra B**. Food Preservatives From Microbial Origin: Industrial Perspectives. *Role of Microbes in Industrial Products and Processes*. 2022 Oct 10:81-106. John Wiley & Sons.(ISBN: 978-1-119-901198) [Scopus Indexed]
- 8) Chunduri A, Donthula N, Jahanavi M, Golla S, Aich P, Sahithya K, **Mishra B**, **Mandal SK**, Anuranjeeta. Role of Microbes in the Pharmaceutical Industry. *Role of Microbes in Industrial Products and Processes*. 2022 Oct 10:1-34. John Wiley & Sons. (ISBN: 978-1-119-901198) [Scopus Indexed]
- 9) **Aruna V**, Chada N, Tejaswini Reddy M, Geethikalal V, Dornala K, **Nagendranatha Reddy C**. Plant Synthesized Nanoparticles for Dye Degradation. 2022 Sep 21 (pp. 1-30). Singapore: Springer Nature Singapore. (ISBN978-981-19-4811-4)

- 10) Aishwarya CV, Caleb Joel Raj J, **Mandal SK, Reddy CN, Mishra B**. Smart Health Care by Harnessing the Internet of Things (IoT): Applications, Challenges, and Future Aspects. InIoT Based Smart Applications 2022 Oct 1 (pp. 35-54). Cham: Springer International Publishing. (ISBN978-3-031-04524-0) [**Scopus Indexed**]

2021-22

International Journals

- 1) Das N, Shende AP, Keerthana G, **Mandal SK**. Applications of microbial biofloculants for environmental remediation: an overview. Research Journal of Pharmacy and Technology. 2022;15(4):1883-90. [**Scopus Indexed**]
- 2) Rajagopal K, Reddy YS, **Reddy CO**. Impact of various factors on the stability of biodiesel-a review. Journal of Biotech Research. 2022 Jan 1;13. [**Scopus Indexed**]
- 3) **Mishra B**, Mishra AK, Kumar S, **Mandal SK**, Nsv L, Kumar V, Baek KH, Mohanta YK. Antifungal metabolites as food bio-preservative: Innovation, outlook, and challenges. Metabolites. 2021 Dec 23;12(1):12. [**Scopus/WoS Indexed**] (SCIE)
- 4) **Mishra B**, Mohanta YK, Varjani S, **Mandal SK**, Lakshmayya NS, Chaturvedi P, Awasthi MK, Zhang Z, Sindhu R, Binod P, Singhanian RR. A critical review on valorization of food processing wastes and by-products for pullulan production. Journal of Food Science and Technology. 2023 Aug;60(8):2121-31. [**Scopus/WoS Indexed**] (ESCI)
- 5) **Reddy CN**, Kondaveeti S, Mohanakrishna G, Min B. Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes. Chemosphere. 2022 Jan 1;287:132299. [**Scopus/WoS Indexed**] (SCIE)
- 6) **Mishra B**, Varjani S, Kumar G, Awasthi MK, Awasthi SK, Sindhu R, Binod P, Rene ER, Zhang Z. Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. Energy & Environment. 2021 Sep;32(6):1029-58. [**Scopus/WoS Indexed**] (SSCI)

National Journals

- 1) **Reddy CO**. Data visualization using marker-based Augmented Reality techniques. Journal of Positive School Psychology. 2022 Jun 30:3850-6.

Book Chapters

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