

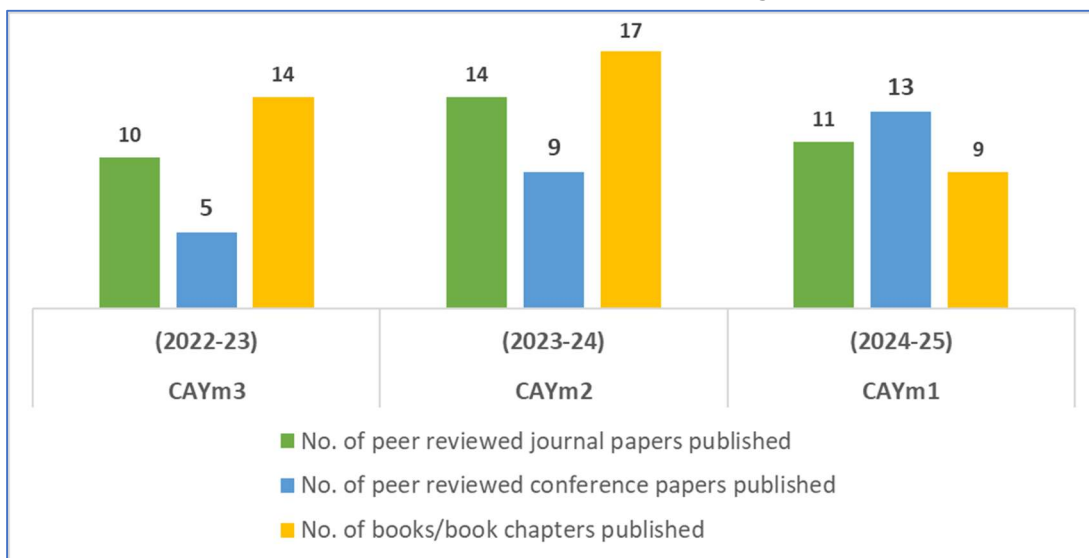


CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

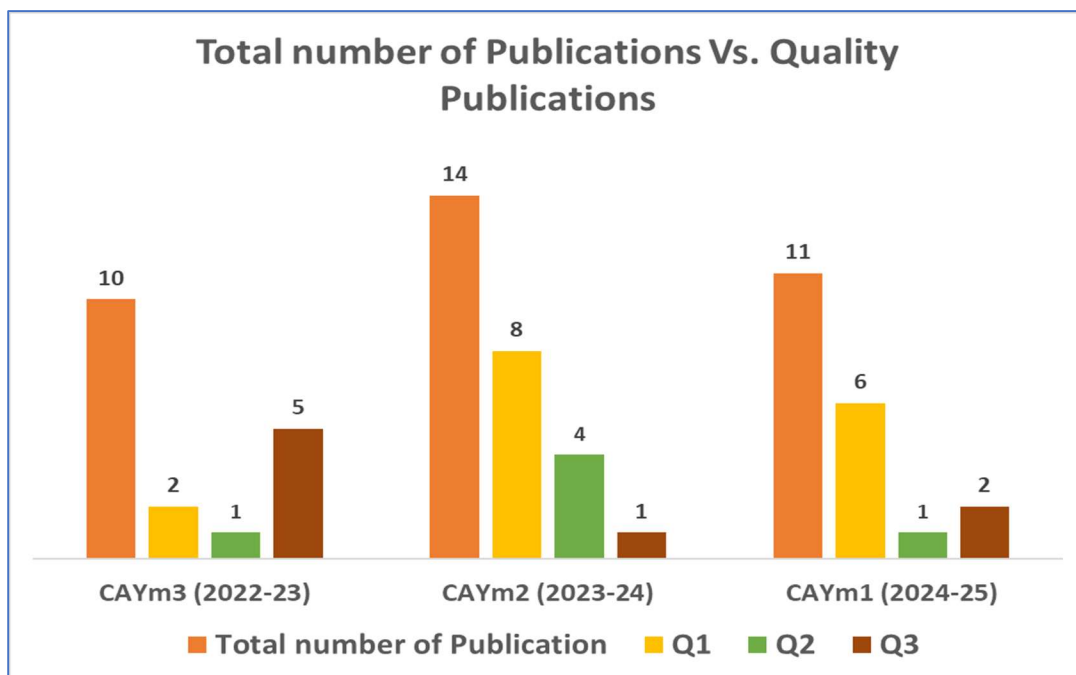
Affiliated to Osmania University

Department of Biotechnology

Publications summary



Total number of Publications Vs. Quality Publications




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List of Publications

AY 2024-25

International Journals

S.L No	Faculty Name(s)	Title of the Paper, Journal, Date of publication (along with DOI)	Publisher	Scopus index	WoS index	Q1/ Q2/ Q3/ Q4	SDG	Scopus Citation
1	Papathoti NK, Kanduri BH, Gorrekanti K, Obula Reddy chittepu , Thepbandit W, Hoang NH, Sangpueak R, Saengchan C, Le Thanh T, Buensanteai K.	Structural insights into methanol to ethanol conversion through pMMO and MDH from <i>Methylococcus capsulatus</i> using the protein-protein interactions and molecular dynamics simulations https://doi.org/10.1016/j.biombioe.2025.108031 Published on: 13 June 2025	Biomass and Bioenergy (Elsevier)	Yes	Yes	Q1	SDG 7, SDG 9	0
2	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 https://doi.org/10.1007/s12649-025-03070-0 Published on: 26 April 2025	Waste and Biomass Valorization (Springer)	Yes	Yes	Q2	SDG 12, SDG 9	11
3	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, https://doi.org/10.1016/j.jenvman.2025.125508	Journal of Environmental Management (Elsevier)	Yes	Yes	Q1	SDG 7, SDG 12, SDG 9	2

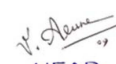
		Published on: 5 May 2025						
4	Mishra, Bishwambhar, Parashuram Kallem, Rajasri Yadavalli, Sanjeeb Kumar Mandal, C. Nagendranatha Reddy, B. Sumithra, N. S. Lakshmayya, and Fawzi Bana.	Industrial wastewater treatment using extracellular polymer substances/biofloculants: a review. https://doi.org/10.1007/s13201-025-02401-9 Published on: 20 February 2025	Applied Water Science (Springer)	Yes	Yes	Q1	SDG 6, SDG 12	9
5	Mullai, P., S. Vishali, and K. Dharmalingam.	Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater. https://doi.org/10.1016/j.jtic.2024.105381 Published on: 6 February 2024	Journal of the Taiwan Institute of Chemical Engineers (Elsevier)	Yes	Yes	Q1	SDG 6, SDG 12	0
6	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. https://doi.org/10.2174/0109298673253414231127162817 Published on: 07 February, 2024	Current Medicinal Chemistry (Bentham Science)	Yes	Yes	Q1	SDG 3	5
7	Chittepu Obula Reddy, Sudhamayee Behura, Prem Vijoy, Kanu Shil, Nagar, Panikhaiti, Santanu Sarma, Roop Raj, Shital P. Dehanka	Balancing energy needs and environmental conservation: the case of hydropower development in Bhutan Published on: 15 September 2024	Journal of Environmental Protection and Ecology	YES	NO	Q3	SDG7, SDG13, SGD15	0

8	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. https://doi.org/10.1016/j.jbiomac.2024.135583 Published on: 11 September 2024	International Journal of Biological Macromolecules (Elsevier)	Yes	Yes	Q1	SDG 12, SDG 9	67
9	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. https://doi.org/10.1039/d4ra04807e Published on: 02 Sep 2024	RSC advances (Royal Society of Chemistry)	Yes		Q1	SDG 3, SDG 9	14
10	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. https://doi.org/10.1016/j.scenv.2024.100150 Published on: 22 August 2024	Sustainable Chemistry for the Environment (Elsevier)	Yes	Yes		SDG 6, SDG 12	9
11	Lakshmayya, Nunna SV, Ashoutosh Panday, Rajasri Yadavalli, Chintakunta N. Reddy, Sanjeeb Kumar Mandal, Dinesh Chand	Food Contamination with Micro-plastics: Occurrences, Bioavailability, Human Vulnerability, and Prevention. http://dx.doi.org/10.2174/1573401319666230915164	Current Nutrition & Food Science (Bentham Science)	Yes	Yes	Q3	SDG 3, SDG 14, SDG 15	6

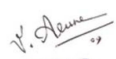
	Agrawal, and Bishwambhar Mishra	116 Published on: 22 August 2024					
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Conference

S. No	Faculty Name(s)	Title of the Paper presented in Conference	Name of the Conference	Publisher	Proceeding Proof	SDG No
1	G. Narsimlu, B R Sreedhar, M Amarnath, G. Deepa, V Omeshwar Reddy, Chittepu Obula Reddy	Smart Health Care using Artificial Intelligence Powered Electronics and Internet of Things	International Conference on Trends in Material Science and Inventive Materials (ICTMIM-2025)	IEEE	https://drive.google.com/file/d/1cAk5gdDjI0Zmmxru7A32B1h902Pm7rqo/view?usp=drive_link	SDG 3, SDG 9
2	Bishwambhar Mishra	Modernizing and Enhancing the Innovation of Microbial Banks	Research and Innovation in Industrial and Marine Biotechnology: A Circular Economy	Taylor & Francis	https://drive.google.com/file/d/1UtUyCtRqkEzpRBP9jrcj3FuncOWs6p2r/view?usp=drive_link	SDG 9, SDG 15
3	Bishwambhar Mishra, Rajasri Yadavalli, C. Nagendranatha Reddy, Sanjeeb Kumar Mandal	Metagenomics: Unlocking Microbial Potential in Bioremediation	Research and Innovation in Industrial and Marine Biotechnology: A Circular Economy	Taylor & Francis	https://drive.google.com/file/d/1pkdz3ZLmKEKbDJPQXxA0q5Oes1RQKICb/view?usp=drive_link	SDG 6, SDG 15, SDG 13


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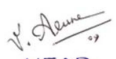
4	Perugu Bhavana, Srikanth Muthyala, Ashoutosh Panday, Bishwambhar Mishra	Contaminant Leaching in Groundwater: The Effect of Microplastics and Toxic Chemicals in Water Pollution	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnology, CBIT, Hyderabad	https://drive.google.com/file/d/1uY0Ts1LAm11JaeQS59oCqDAGAt-gF2X4/view?usp=drive_link	SDG 6, SDG 14, SDG 3
5	K. Manasvi, Smriti Soma, L. Trishika, Varimadugu Aruna	THCA Synthase and Genetic Control on Cannabis Intoxication: A Comprehensive Review	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnology, CBIT, Hyderabad	https://drive.google.com/file/d/14fODf5owylQTrCsB8uQP0gS3LY2E62IR/view?usp=drive_link	SDG 3, SDG 9
6	Cambampaty Akshita Naidu, Shreya Tati, Dr. N. Madhusudhana Rao, V. Aruna	A NON-INVASIVE MARKERS BASED SYSTEMS APPROACH FOR THE DIAGNOSIS OF DIABETIC PERIPHERAL NEUROPATHIES	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnology, CBIT, Hyderabad	https://drive.google.com/file/d/1S9Jig8BV30-lbAXK1JpQ8aHVPNvgYb3z/view?usp=drive_link	SDG 3, SDG 9
7	K. P. S. Sree Varshinee, M. Nandini, K. Dharmalingam, G. Vijaya Laxmi	The Epigenetic Awakening: Unlocking Human Potential	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnology, CBIT, Hyderabad	https://drive.google.com/file/d/1Li-GOdk5Fo8TyIpcPD9ylzQBqvWUbcBg/view?usp=drive_link	SDG 3, SDG 4


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8	Chittepu Obula Reddy , Anjaneyulu Musini, S. S. Sravanthi Pammi, P Gnana Deepu, Zahoorullah.S. MD	Exploration of antioxidant potential of methanolic extracts of various plant sources by comparative analysis	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnol ogy, CBIT, Hyderabad	https://drive.google.com/file/d/1TZLeF1z5q5MvnQnpyIXALw2-t5f_f1CL/view?usp=drive_link	SDG 3, SDG 12
9	Ananya Vakkalanka, Rishitha Tatipelli, C. Obul Reddy	Hereditary cancers associated with germline mutations	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnol ogy, CBIT, Hyderabad	https://drive.google.com/file/d/1bAiCT9LprZRJbVEc89Efn8If8AK4YzNk/view?usp=drive_link	SDG 3
10	Nidhi Bhide, Punreddy Akshitha, Roshini Perumal, C. Nagendranatha Reddy*	Co-Cultivation of Microalgae for Efficient Harvesting: Simultaneous Wastewater Treatment and Value Addition	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnol ogy, CBIT, Hyderabad	https://drive.google.com/file/d/1h3v1XNw26sfXu2wt5Yalps1msfe4WbF6/view?usp=drive_link	SDG 6, SDG 12, SDG 13
11	Sanjeeb Kumar Mandal , Md Rahman uddin	Marine probiotics: isolation and application	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnol ogy, CBIT, Hyderabad	https://drive.google.com/file/d/13xXk3jNAR_kjpLNYUdfhu8CboV46Ktr2/view?usp=drive_link	SDG 14, SDG 3
12	D.Sarayu,E.Po oja, Chandana,Y. Sanjeeb Kumar Mandal	Beyond the microscope : the role of nanotechnology in modern medicine	2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT '24)	Dept. of Biotechnol ogy, CBIT, Hyderabad	https://drive.google.com/file/d/1p1WzkQKIYht1QWi8s8mIRwsX8o4orf4O/view?usp=drive_link	SDG 3, SDG 9

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2	Mandal, Sanjeeb Kumar, Alekhya Pasumarthy, Dhruv Tadikonda, Bishwambhar Mishra, B. Sumithra, Sumithra Salla, D. Mahaboob Basha, and Ashoutosh Panday.	Nano-Bioremediation for Wastewater Treatment Published on: 21 March 2025	Wiley	ISBN:978-1-39427-161-0	Chapter 9 Nanobioremediation: A Sustainable Reclamation Method for Future Deployment	https://doi.org/10.1002/9781394271641.ch9	SDG 6 SDG 9 SDG 12 SDG 13
3	Varsha, Vanga Sri, Tanmayi Boreda, Sanjana Reddy Pailla, Yashasvi Kambhampati, T. Gourav, Rajasri Yadavalli, G. Vijaya Laxmi, Sphoorthy Nadimpalli, and C. Nagendranatha Reddy.	Nano-microbiology for Sustainable Development Published on: 26 February 2025	Springer Nature	ISBN:978-3-031-78845-1	Chapter 12 Nanotechnology and Microbes: Revolutionizing Water Management	https://doi.org/10.1007/978-3-031-78845-1_12	SDG 6 SDG 9 SDG 12 SDG 13
4	Kalyanam, Mahima, Kirthikha Shanmuga Sunder, Bishwambhar Mishra, Mautushi Das, Harisankar Dey, and Vijaya Laxmi Govindugari.	Nano-microbiology for Sustainable Development Published on: 26 February 2025	Springer Nature	ISBN:978-3-031-78845-1	Chapter 3 Algal-Mediated Nanoparticle Synthesis for Environmental Sustainability	https://doi.org/10.1007/978-3-031-78845-1_3	SDG 6 SDG 9 SDG 12 SDG 13
5	Yadavalli, R., Reddy, C. N., Mishra, B., Chandrasekhar, K., Vineetha, Y., & Shalini, A.	Algal Biotechnology Published on: 30 August 2024	CRC Press	ISBN: 978-1-003-21919-4	Chapter 15 Potential Applications of Microalgae and Its Derivatives in Various	https://doi.org/10.1201/9781003219194	SDG 6 SDG 9 SDG 12 SDG 13

					Industries		
6	Singh, Navodit Kumar, Richa Katiyar, Ranjana Kumari, Bishwambhar Mishra, Sanjeeb Kumar Mandal, and Sanjay Kumar.	Formulations, Regulations, and Challenges of Nutraceuticals Published on: 23 August 2024	Apple academic publisher	ISBN:978-1-00341-249-6	Chapter 6 Nutraceutical Regulation In Asian Countries	https://doi.org/10.1201/9781003412496	SDG 3 SDG 9 SDG 12
7	Srihita, Adepu, Ananya Suma Konda, Amogh Bellurkar, B. Sumithra, and Bishwambhar Mishra.	Sustainable Development Using Private AI Published on: 23 August 2024	CRC Press	ISBN:978-1-03271-674-9	Chapter 13 Private Artificial Intelligence (AI) in Social Media	https://doi.org/10.1201/9781032716749	SDG 9 SDG 16
8	Varimadugu Aruna, Navya Sree Duggi Reddy, Balaji Doolam, Jyothika Meenakshi Kambhampati, Chunduru Sai Hari, Hara Sudheshna	Antimicrobials for Sustainable Food Storage Published on: August 13, 2024	CRC Press	ISBN:978-1-00328-850-3	Chapter 14 Antimicrobial edible biofilms for food packaging – nano-based technologies	https://doi.org/10.1201/9781003288503	SDG 2 SDG 9 SDG 12 SDG 13


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International Journals

S.L No	Faculty Name(s)	Title of the Paper published in peer reviewed journals (along with DOI)	Name of the Journal and Publisher	Scopus index	WoS index	Q1/ Q2/ Q3/ Q4	SDG	Scopus Citation
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 https://doi.org/10.1039/D4NJ01990C Published on: 27 Jun 2024	New Journal of Chemistry (Royal Society of Chemistry)	Yes	Yes	Q2	SDG 3, SDG 9	1
2	Mullai, P., S. Vishali, and K. Dharmalingam	Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater https://doi.org/10.1016/j.jtice.2024.105381 Published on: 6 February 2024	Journal of the Taiwan Institute of Chemical Engineers (Elsevier)	Yes	Yes	Q1	SDG 6, SDG 12	3
3	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 https://doi.org/10.1007/s10068-024-01638-5 Published on: 28 June 2024	Food Science and Biotechnology (Springer)	Yes	Yes	Q2	SDG 3	16

4	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 <i>Saccharomyces cerevisiae</i> : exploring their applications in health promotion and food development https://doi.org/10.1007/s10668-024-04969-9 Published on: 29 April 2024	Environment, Development and Sustainability (Springer)	Yes	Yes	Q1	SDG 3, SDG 12	6
5	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 https://doi.org/10.1007/s12649-024-02452-0 Published on: 12 March 2024	Waste and Biomass Valorization (Springer)	Yes	Yes	Q2	SDG 12, SDG 9	46
6	Nath, Pinku Chandra, Awdhesh Kumar Mishra, Ramesh Sharma, Biswanath Bhunia, Bishwambhar Mishra , Ajita Tiwari, Prakash Kumar Nayak	Recent advances in artificial intelligence towards the sustainable future of agri-food industry https://doi.org/10.1016/j.foodchem.2024.138945 Published on: 5 March 2024	Food Chemistry (Elsevier)	Yes	Yes	Q1	SDG 2, SDG 9, SDG 12	110

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	Postbiotics: The New Horizons of Microbial Functional Bioactive Compounds in Food Preservation and Security. https://doi.org/10.1186/s43014-023-00200-w Published on: 27 February 2024	Food Production, Processing and Nutrition (Springer)	Yes	Yes	Q1	SDG 3, SDG 12	52
8	Mrunal S Wagh, S Sowjanya, Pinku Chandra Nath, Arnab Chakraborty, Rajshree Amrit, Bishwambhar Mishra , Awdhesh Kumar Mishra, Yugal Kishore Mohanta	Valorisation of agro-industrial wastes: circular bioeconomy and biorefinery process—a sustainable symphony https://doi.org/10.1016/j.jsep.2024.01.055 Published on: 19 January 2024	Process Safety and Environmental Protection (Elsevier)	Yes	Yes	Q1	SDG 12, SDG 9	138
9	Ramesh Sharma, Pinku Chandra Nath, Yugal Kishore Mohanta, Biswanath Bhunia, Bishwambhar Mishra , Minaxi Sharma, Shweta Suri, Maharshi Bhaswant, Prakash Kumar Nayak, Kandi Sridhar	Recent advances in cellulose-based sustainable materials for wastewater treatment: An overview https://doi.org/10.1016/j.jbiomac.2023.128517 Published on: 29 November 2023	International Journal of Biological Macromolecules (Elsevier)	Yes	Yes	Q1	SDG 6, SDG 12	66


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10	NSV Lakshmayya, Awdhesh Kumar Mishra, Yugal Kishore Mohanta, Jibanjyoti Panda, Bindu Naik, Bishwambhar Mishra , Rajender S Varma	Essential oils-based nano-emulsion system for food safety and preservation: Current status and future prospects https://doi.org/10.1016/j.cab.2023.102897 Published on: 16 October 2023	Biocatalysis and Agricultural Biotechnology (Elsevier)	Yes	Yes	Q2	SDG 3, SDG 12	38
11	Bishwambhar Mishra , Yugal Kishore Mohanta, C. Nagendranatha Reddy , S. Deepak Mohan Reddy, Sanjeeb Kumar Mandal , Rajasri Yadavalli , Hemen Sarma	Valorization of agro-industrial biowaste to biomaterials: An innovative circular bioeconomy approach https://doi.org/10.1016/j.jec.2023.100050 Published on: 19 August 2023	Circular Economy (Elsevier)	Yes	No		SDG 12, SDG 9	70
12	P Mullai, S Vishali, SM Sambavi, K Dharmalingam , MK Yogeswari, VC Vadivel Raja, B Bharathiraja, Bayar Büşra, Haris Nalakath Abubackar, Md Abdullah Al Noman, Eldon R Rene	Energy generation from bioelectrochemical techniques: Concepts, reactor configurations and modeling approaches https://doi.org/10.1016/j.chemosphere.2023.139950 Published on: 28 August 2023	Chemosphere (Elsevier)	Yes	Yes	Q1	SDG 7, SDG 9	4


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Conference

S. No	Faculty Name(s)	Title of the Paper presented in Conference	Name of the Conference	Publisher	Proceeding Proof	SDG No
1	Jyothika Meenakshi Kambhampati, Souborni Nandy, V Shreya Sharma, B Sumithra, Kiran Yellappa Vajanthri, Sanjeeb Kumar Mandal	Identification and characterization of alternative splice variants as potential biomarkers for detection of cachexia	National Conference on Avenues of Biotechnology For Sustainability (NCABS - 2024)	Faculty of Science & Humanities, SRM Institute of Science & Technology, Ramapuram, Chennai	https://drive.google.com/file/d/1PgBzxAGsWGjetTySAk88gWFoz25LE4-Z/view?usp=drive_link	SDG 3, SDG 9
2	Phalguni Nadiger, Srihitha Bocha, Ananya Surabhi, B. Sumithra and Sanjeeb Kumar Mandal	A comprehensive view on polycystic ovary syndrome (pcos)	National Conference on Avenues of Biotechnology For Sustainability (NCABS - 2024)	Faculty of Science & Humanities, SRM Institute of Science & Technology, Ramapuram, Chennai	https://drive.google.com/file/d/1VH0klKnwqJ7Qfz4eKX8ELvRYwbS-g4X5/view?usp=drive_link	SDG 3, SDG 5
3	Kirthikha Shanmuga Sunder, Mahima Kalyanam, Bishwambhar Mishra	Sustainable solutions: utilising agricultural waste for bioplastics and biofibers	National Conference on Avenues of Biotechnology For Sustainability (NCABS - 2024)	Faculty of Science & Humanities, SRM Institute of Science & Technology, Ramapuram, Chennai	https://drive.google.com/file/d/15Rg25YniQX0L_U6BpVmhiuVOp71LkfBk/view?usp=drive_link	SDG 12, SDG 13, SDG 9


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4	Srikanth Muthyala, Perugu Bhavana Reddy, Heerekar Kunal Kumar, Bishwambhar Mishra, B. Sumithra , Rajni Kumari, Sanjeeb Kumar Mandal	Transforming Agricultural Biomass into Eco-Friendly Nanoparticles to Enhance Agricultural Sustainability	International Conference On Biorevolution- Pioneering Innovations In Life Sciences (Bio-Pils - 2024)	The journal Advances in Applied Research by PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu	https://drive.google.com/file/d/193e3Cb4XrixTQpL9BlfLIntmgmqAifVM/view?usp=drive_link	SDG 2, SDG 12, SDG 13
5	Bikkumalla Shruti, Grandhi Manognadevi, Kanuganti Akhila, B. Sumithra	Reverse Vaccinology: Unveiling the Fundamentals and Applications	International Conference On Biorevolution- Pioneering Innovations In Life Sciences (Bio-Pils - 2024)	The journal Advances in Applied Research by PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu	https://drive.google.com/file/d/1PEvu9yXJ6_DLjJ28G9LLaLnpRLogSLp3/view?usp=drive_link	SDG 3, SDG 9
6	Alekhyas Pasumarthy, G Vijaya Laxmi	Road to sustainability: piezoelectric materials as efficient tools for energy harvesting	6th International Conference On Bioenergy, Environment and Sustainable Technologies	Arunai Engineering College, TamilNadu	https://drive.google.com/file/d/1Ay-c1R-7PKpBIPJm0Gajy_9gdhndanZ5/view?usp=drive_link	SDG 7, SDG 9, SDG 13
7	C. Nagendranatha Reddy* , Rithika Gorrepati, P. Himavarshini, Bishwambhar Mishra	Unveiling nutritional profiles and detection mechanisms of naturally and artificially ripened fruits: development of a prototype	6th International Conference On Bioenergy, Environment and Sustainable Technologies	Arunai Engineering College, TamilNadu	https://drive.google.com/file/d/1DoJkrt8FgzE4b97C-3QTVRkXFK1WQ2K2/view?usp=drive_link	SDG 2, SDG 3, SDG 12

8	Dhruv Tadikonda, Kirthikha Shanmuga Sunder, Naga Prapurna, Bishwambhar Mishra	Advancements in enzymatic approaches for addressing heavy metal pollution in aquatic ecosystems	6th International Conference On Bioenergy, Environment and Sustainable Technologies	Arunai Engineering College, TamilNadu	https://drive.google.com/file/d/1PRUZhT8tqLY2SZa8CNRr4RzQPtR2XW1N/view?usp=drive_link	SDG 6, SDG 14, SDG 13
9	Nitin Badhe, Shreya Banala, Dharmalingam K , Rajasri Yadavalli	Bioplastic from algae : a sustainable approach for eco-friendly materials	6th International Conference On Bioenergy, Environment and Sustainable Technologies	Arunai Engineering College, TamilNadu	https://drive.google.com/file/d/1tpvltvOll1Mm_flyXJFrXJneCbVP7y/view?usp=drive_link	SDG 12, SDG 13, SDG 14

Book Chapters

S. No.	Author Name	Title of the Book	Publisher	ISBN No	Chapter No and Title	DOI	SDG
1	Poornima, A., Vidhya, S.Y., Suganya, K., Sudha, B., Sumathi, S., Mandal, S.K. and Salla, S.,	Material and Energy Recovery from Solid Waste for a Circular Economy Published on: 8 July 2024	CRC Press	ISBN: 978-1-03239-976-8	Chapter 7 Appraising the Natural Bio-Processes over Thermal Treatments to Treat Municipal Solid Waste	https://doi.org/10.1201/9781003364467	SDG 11 SDG 12 SDG 13 SDG 9
2	Sumithra Salla, Alekhya Pasumarthy, Dhruv Tadikonda, Tilak Parsha, Sanjeeb Kumar Mandal.	Sustainable Development Using Private AI Published on: 27 August 2024	CRC Press	ISBN: 978-1-032-71672-5	Chapter 6 Private AI in Education	https://doi.org/10.1201/9781032716749	SDG 4 SDG 9

3	Sumithra Salla, Grandhi Manognadevi, Kanuganti Akhila, Sanjeeb Kumar Mandal	Sustainable Development Using Private AI Published on: 27 August 2024	CRC Press	ISBN: 978-1-032-71672-5	Chapter 9 Private AI in Health Care	https://doi.org/10.1201/9781032716749	SDG 3 SDG 9
4	Mandal, S.K., Kambhampati, J.M., Sharma, V.S., Sirisha, V.S.L., Sharvani, P., Reddy, C.N., Yadavalli, R. and Mishra, B.	Microbial Metagenomics in Effluent Treatment Plant Published on: 31 May 2024	Elsevier	ISBN: 978-0-443-13531-6	Chapter 4 Gene prediction through metagenomics	https://doi.org/10.1016/B978-0-443-13531-6.00013-6	SDG 3 SDG 9 SDG 12 SDG 13
5	Rajasri Yadavalli, Ch S H Sudheshna, Kolluru Naga Venkata Sujatha, Peri Shreenija, C Nagendranatha Reddy, Bishwambhar Mishra, Sanjeeb Kumar Mandal	Aerobic and Anaerobic Microbial Treatment of Industrial Wastewater of industrial wastewater Published on: 17 December 2024	CRC Press	ISBN: 978-1-032-46358-2	Chapter 4 Recent Advances in Reactor Design for the Treatment of Industrial Wastewater	https://doi.org/10.1201/9781003381327	SDG 6 SDG 9 SDG 12 SDG 13
6	C Nagendranatha Reddy, Divyanshu S, Charan MCK, Pravalila R, Hamshini K, Kavaya P, Rajasri Yadavalli, Bishwambhar Mishra, Sanjeeb Kumar Mandal	Aerobic and Anaerobic Microbial Treatment of Industrial Wastewater of industrial wastewater Published on: 17 December 2024	CRC Press	ISBN: 978-1-032-46358-2	Chapter 5 Aerobic and Anaerobic Digestion of Textile Industry Wastewater	https://doi.org/10.1201/9781003381327	SDG 6 SDG 9 SDG 12 SDG 13
7	Varsha, V.S., Boreda, T., Kamana, A.R., Pailla, S.R., Kambhampati, Y.,	Microbial Pigments CRC Press. Published on: 8	CRC Press	ISBN: 978-1-032-	Chapter 14 Food Colours Toxicology	https://doi.org/10.1201/97810033539	SDG 2 SDG 3

	Gourav, T., Panday, A., Mandal, S.K. and Mishra, B.,	March 2024		39263-9	and Food Safety	80	SDG 12
8	Sudheshna, C. S., Kambhampati, J. M., Samanth, C., Chaitra, G., Pulipelli, H. R., Vishal, B., ... & Mishra, B.	Carbon-Based Nanomaterials in Biosystems Published on: 3 May 2024	Academic Press	ISBN: 978-0-443-15508-6	Chapter 3 Green carbon nanomaterials and their application in food, agriculture, and biomedicine	https://doi.org/10.1016/B978-0-443-15508-6.00009-9	SDG 2 SDG 3 SDG 9 SDG 12 SDG 13
9	Shamim, M. Z., Deka, P., Mohanta, Y. K., Mishra, B., Biswas, K., & Mishra, A. K.	Carbon-Based Nanomaterials in Biosystems Published on: 3 May 2024	Academic Press	ISBN: 978-0-443-15508-6	Chapter 5 Implications of caged molecular structure of buckminsterfullerenes in food sciences and industry applications	https://doi.org/10.1016/B978-0-443-15508-6.00008-7	SDG 2 SDG 3 SDG 9 SDG 12
10	Doolam, B., Surabhi, D., Gautam, C. K., Yadavalli, R., Reddy, N. R., Kulkarni, A., ... & Mishra, B.	Carbon-Based Nanomaterials in Biosystems Published on: 3 May 2024	Academic Press	ISBN: 978-0-443-15508-6	Chapter 7 Role of different types of carbon nanotubes in food sciences and food sensing applications	https://doi.org/10.1016/B978-0-443-15508-6.00005-1	SDG 2 SDG 3 SDG 9 SDG 12
11	Chittepu Obula Reddy and V. Shreya Sharma	From Waste to Wealth Published on: 25	Springer Nature	ISBN: 978-981-99-7551-	Chapter 67 Newspaper Waste	https://doi.org/10.1007/978-981-99-	SDG 3 SDG 9

		May 2024		8	Management and Various Technologies and Approaches for Converting Newspaper Waste into Valuable Products	7552-5_68	SDG 12
12	Chittepu Obula Reddy, Balaji Doolam, Naru Rakesh Reddy, Divyamshu Surabhi, Jyothika Meenakshi Kambhampati, Surabhi Nagamanju, and K. Rajagopal Published on:	From Waste to Wealth Published on: 25 May 2024	Springer Nature	ISBN: 978-981-99-7551-8	Chapter 53 Exploring the Potential of Biomedical Waste Management: Transforming Challenges into Opportunities for Sustainable Solutions	https://doi.org/10.1007/978-981-99-7552-5_53	SDG 11 SDG 12 SDG 13 SDG 9
13	Chittepu Obula Reddy, Sharvani Pokala, Spoorthi Sada, and Bhavani Pokala Published on:	From Waste to Wealth Published on: 25 May 2024	Springer Nature	ISBN: 978-981-99-7551-8	Chapter 37 Effective Utilization of Tannery Waste for the Fabrication of Construction Materials	https://doi.org/10.1007/978-981-99-7552-5_37	SDG 9 SDG 11 SDG 12 SDG 13
15	Chittepu Obula Reddy and Valluru Saileela Sirisha	From Waste to Wealth Published on: 25 May 2024	Springer Nature	ISBN: 978-981-99-7551-8	Chapter 36 Management of Floral Waste, as Well as Various	https://doi.org/10.1007/978-981-99-7552-5_36	SDG 11 SDG 12 SDG 13 SDG

					Techniques and Approaches for Converting the Floral Waste into Value-Added Products		9
16	Vasistha, Vishal, Suraj Bhan, K. Rajagopal, and C. Obula Reddy.	From Waste to Wealth Published on: 25 May 2024	Springer Nature	ISBN: 978-981-99-7551-8	Chapter 16 Production of Biodiesel from Waste Cooking Oil	https://doi.org/10.1007/978-981-99-7552-5_16	SDG 7 SDG 9 SDG 12 SDG 13
17	Govindugari Vijaya Laxmi and K. Dharmalingam	Micropropagation of Medicinal Plants Published on: 20 December 2023	Bentham Science	ISBN: 978-981-5238-31-0	Chapter 15 <i>In Vitro</i> Protocols for Micropropagation of <i>Catharanthus roseus</i> (L.) G. Don	https://doi.org/10.2174/9789815238303124020012	SDG 2 SDG 3 SDG 9 SDG 12

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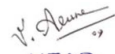
International Journals

S.L No	Faculty Name(s)	Title of the Paper published in peer reviewed journals (along with DOI)	Name of the Journal and Publisher	Scopus index	WoS index	Q1/ Q2/ Q3/ Q4	SDG	Scopus Citation
1	Basha, Shaik F.; Reddy, Yeruva Pavankumar;	An Efficient Multi-Functionalized Synthesis of N-Arylated Indole-3-	Letters in Organic Chemistry	Yes	Yes	Q4	SDG 3, SDG	1

	Settipalli, Poorna Chandrasekhar; Prasad, Tangella Nagendra; Kumar, Vadiga Shanthi; Basha, Gajula Mahaboob; Aruna, Varimadugu; Mulakayala, Naveen; Anwar, Shaik	Substituted-2- Benzimidazoles as Anticancer Agents http://dx.doi.org/10.2174/1570178620666230217111458 Published on: 16 March, 2023	(Bentham Science)				9	
2	C. Nagendranatha Reddy, Parashuram Kallem, K.V.S.S.N. Mounika, Abdul Muqeet, J Caleb Joel Raj, C.V.S. Aishwarya, Rakesh Kumar Gupta, Veerababu Poliseti, Bishwambhar Mishra, Y. Rajasri, Sanjeeb Kumar Mandal, Mikael S. Hedenqvist, Fawzi Banat	Review of microplastic degradation: Understanding metagenomic approaches for microplastic degrading organisms https://doi.org/10.1016/j.polymer.2023.108223 Published on: 27 September 2022	Polymer Testing (Elsevier)	Yes	Yes	Q1	SDG 14, SDG 15, SDG 13	26
3	Anitha Mogilicharla, V. Swapna, Rajasri Yadavalli	Effect of semi batch and fed batch addition of glucose on alkaline protease production: A Multi-objective optimization approach. https://doi.org/10.1504/IJESMS.2023.133950 Published on: 17 August	International Journal of Engineering Systems Modelling and Simulation (Inderscience)	Yes	Yes	Q3	SDG 9, SDG 12	0

		2022						
4	Vasu P, Dharmalingam K , Ramachandran T, Prakash C.	Fabrication and Characterization of Organo Modified Polysiloxane Softened Linen Fabrics by On-Loom Integrated Finishing. https://doi.org/10.1177/24723444231172225 Published on: May 24, 2023	AATCC Journal of Research (SAGE)	Yes	Yes	Q3	SDG 9, SDG 12	0
5	Mishra B , Muthupandian S, Barabadi H, Tayung K and Mohanta YK	Editorial: Anti-cancer bioactive molecules from microbial sources https://doi.org/10.3389/fphar.2023.1190354 Published on: 13 April 2023	Frontiers in Pharmacology (Frontiers Group)	Yes	Yes	Q2	SDG 3, SDG 9	2
6	Govindugari Vijaya Laxmi , Sowmya Golla, Deepak Mohan Reddy S, Alisha Chunduri, Lakshmayya NSV, Jahanavi M, Vishwanutha Samshabad, Mounica Bandela, Vidyani Suryadevara, (2023) .	Thwarting Alzheimer's Disease through Healthy Lifestyle Habits: Hope for the Future https://doi.org/10.3390/neuroint15010013 Published on: 28 January 2023	Neurology international (MDPI)	Yes			SDG 3	13
7	Rajasri Yadavalli , Praharshita Valluru, Roshni Raj, C. Nagendranatha	Biological detoxification of mycotoxins: Emphasizing the role of algae https://doi.org/10.1016/j.algal.2023.103039	Algal Research (Elsevier)	Yes	Yes	Q1	SDG 3, SDG 12	16

	Reddy, Bishwambhar Mishra	Published on: 4 March 2023						
8	Nilanjana Das, Mangala Lakshmi Ragavan, Sanjeeb Kumar Mandal	Recent Advances on Efficacy of Probiotic Yeasts in Human Welfare: An Overview https://doi.org/10.55251/jmbfs.9277 Published on: 01 December, 2022	Journal of Microbiology, Biotechnology and Food Sciences	Yes	Yes	Q3	SDG 3	1
9	Das, N., Shende, A.P., Mandal, S.K	Biologia Futura: treatment of wastewater and water using tannin-based coagulants. https://doi.org/10.1007/s42977-022-00128-1 Published on: 17 August 2022	BIOLOGIA FUTURA (Springer)	Yes	Yes	Q3	SDG 6, SDG 12	10
10	Alisha Chunduri · S. Deepak Mohan Reddy · M. Jahanavi · C. Nagendranatha Reddy	Gut–Brain Axis, Neurodegeneration and Mental Health: A Personalized Medicine Perspective https://doi.org/10.1007/s12088-022-01033-w Published on: 10 August 2022	Indian J Microbiol (Springer)	Yes	Yes	Q3	SDG 3	8


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Conference

S. No	Faculty Name(s)	Title of the Paper presented in Conference	Name of the Conference	Publisher	Proceeding Proof	SDG No
1	Mahitha Pyla, Sanjana Kankipati, Kiran Yellappa Vajanthri, Rajasri Yadavalli, K. Dharmalingam	Development and evaluation of stimuli-responsive hydrogel films containing carboxymethyl cellulose soy protein isolate and grapefruit seed extract for potential application in treating atopic dermatitis	4th International Conference on Challenges in Chemical and Biochemical Engineering for Sustainable Development (CBSD)	Annamalai University, Annamalai Nagar – 608002, Tamil Nadu, India	https://drive.google.com/file/d/18g0JV-Mz30S3jPgwer8g5O0berbIfuu/view?usp=drive_link	SDG:3 SDG:9 SDG:12
2	Jyothika Meenakshi Kambhampati, K. Dharmalingam	Recent trends in applications of carboxymethyl cellulose	4th International Conference on Challenges in Chemical and Biochemical Engineering for Sustainable Development (CBSD)	Annamalai University, Annamalai Nagar – 608002, Tamil Nadu, India	https://drive.google.com/file/d/1pKcxRk1KAuWJPT0eOXeG3jbG7iOABalk/view?usp=drive_link	SDG:9 SDG:12
3	Varimadugu Aruna , T. Sai Samhitha ¹ , P. Sravani ¹ , K. Dharmalingam , Ch. Shilpa Chakra ²	Harnessing the Power of Silver Nanoparticles: Synthesis, Characterization, and Antimicrobial Potential	International Conference on Smart Nanotechnologies (ICONSNT) 2023	GITAM University, Hyderabad	https://drive.google.com/file/d/1gwn4Y_aDIFGkTkUNntrhcw9umb ez6Ht0/view?usp=drive_link	SDG:3 SDG:9 SDG:6

4	Chunduru Sai Hari Hara Sudheshna, Rajasri Yadavalli, Dharmalingam K	A review on soy protein isolates as an alternative meat source	4th International Conference on Challenges in Chemical and Biochemical Engineering for Sustainable Development (CBSD)	Annamalai University, Annamalai Nagar – 608002, Tamil Nadu, India	https://drive.google.com/file/d/1zgpL5RYioxG1hg01oaTNqIU1-iDay5ID/view?usp=drive_link	SDG:2 SDG:12 SDG:13
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Book Chapters

S. No.	Author Name	Title of the Book	Publisher	ISBN No	Chapter no and Title	DOI	SDG
1	Varimadugu, Aruna, C. V. S. Aishwarya, Abhishek Naik Kansoth, Vaishnavi Mokkaapati, Dharmalingam Koodalingam, and Sumithra Salla	Microbial Processes for Synthesizing Nanomaterials Environmental and Microbial Biotechnology Published on: 05 September 2023	Springer	ISBN: 978-981-99-2807-1	Chapter 2 Microbial Synthesis of Gold Nanoparticles	https://doi.org/10.1007/978-981-99-2808-8_2	SDG 9 SDG 12 SDG 13
2	Aruna, V., Krushe, M., Aishwarya, C.V.S., Vaishnavi, M., Shankar, B.D.	Antimicrobial Nanosystems. Trends and Developments. Published on: 21 April 2023	Elsevier	ISBN: 9780323911566	Chapter 8 Metal-based nanosystems and the evaluation of their antimicrobial activity	https://doi.org/10.1016/B978-0-323-91156-6.00009-9	SDG 3 SDG 9 SDG 12 SDG 13

3	Caleb Joel Raj, C. V. S. Aishwarya, K. V. S. S. N. Mounika, Bishwambhar Mishra, B. Sumithra, Bhushan Vishal & Sanjeeb Kumar Mandal	Oxidative Stress and Toxicity in Reproductive Biology and Medicine. Advances in Experimental Medicine and Biology Published on: 07 December 2022	Springer, Cham.	ISBN:978-3-031-12965-0	Chapter 1 Deciphering the Nexus Between Oxidative Stress and Spermatogenesis: A Compendious Overview	https://doi.org/10.1007/978-3-031-12966-7_1	SDG 3 SDG 9 SDG 12
4	Balraj Sudha, Kanagaraj Suganya, Bishwambhar Mishra, Govindugari Vijaya Laxmi, Sanjeeb Kumar Mandal, Sanjay Kumar and Sundaravade lu Sumathi.	Frontiers in Antimicrobial Agents Published on: 21 January 2023	Bentham Science Publishers	ISSN: 2452-2589	Chapter 8 A Recent Update on Sponge Bioprospecting and its Antimicrobial Properties: Their Biological Mode of Action	10.2174/9789815080148123030011	SDG 3 SDG 9 SDG 12
5	Pooja Aich, Balraj Sudha, Kanagaraj Suganya, Bishwambhar Mishra, Bapatla Sumithra, Sanjeeb Kumar Mandal, Sundaravade lu Sumathi	Role of Microbes in Industrial Products and Processes. Published on: 10 October 2022	John Wiley & Sons.	ISBN: 978-1-119-901198	Chapter 10 Recovery of Valuable Products from Vegetable Wastes	https://doi.org/10.1002/9781119901198.ch10	SDG 2 SDG 9 SDG 12 SDG 13
6	Santhoshini Hazari, Uzma	Role of Microbes in Industrial	John Wiley & Sons.	ISBN: 978-1-	Chapter 7 Actinobacteri	https://doi.org/10.1002/9781119901198	SDG 3

	Tabassum, Anum Jehan Siddiqui, Shiva ni Hazari, Addaga tla Ravindar, Sanj eeb Kumar Mandal, Sanjay Kumar, Bishwa mbhar Mishra	Products and Processes. Published on: 10 October 2022		119- 901198	a in Natural Product Research: Avenues and Challenges	198.ch7	SDG 9 SDG 12
7	Kanagaraj Suganya, Balra j Sudha, Bishwambhar Mishra, Bapatla Sumithra, Sanjeeb Kumar Mandal, Sunda ravadivelu Sumathi	Role of Microbes in Industrial Products and Processes. Published on: 10 October 2022	John Wiley & Sons.	ISBN: 978-1- 119- 901198	Chapter 5 Marine Microbes as a Resource for Novel Enzymes	https://doi.org/10.1002/9781119901198.ch5	SDG 3 SDG 9 SDG 12
8	N.S.V. Lakshmayya, Y . Swarna Lekhya, Yugal Kishore Mohanta, Sanj eeb Kumar Mandal, Dinesh Chand Agrawal, Bishwambhar Mishra	Role of Microbes in Industrial Products and Processes. Published on: 10 October 2022	John Wiley & Sons.	ISBN: 978-1- 119- 901198	Chapter 4 Food Preservatives From Microbial Origin: Industrial Perspectives	https://doi.org/10.1002/9781119901198.ch4	SDG 3 SDG 9

9	Alisha Chunduri, Niveditha Donthula, M. Jahanavi, Sowmya Golla, Pooja Aich, K. Sahithya, Bishwambhar Mishra, Sanjeeb Kumar Mandal, Anuranjeeta	Role of Microbes in Industrial Products and Processes. Published on: 10 October 2022	John Wiley & Sons.	ISBN: 978-1-119-901198	Chapter 1 Role of Microbes in the Pharmaceutical Industry	https://doi.org/10.1002/9781119901198.ch1	SDG 2 SDG 3 SDG 9 SDG 12
10	Aruna, V., Nagendranatha Reddy, C.	Phyto nanotechnology Published on: 21 September 2022	Springer, Singapore	Online ISBN 978-981-19-4811-4	Chapter 1 Plant Synthesized Nanoparticles for Dye Degradation	https://doi.org/10.1007/978-981-19-4811-4_1	SDG 6 SDG 9 SDG 12 SDG 13
11	Sanjeeb kumar Mandal, C. Nagendranatha Reddy, Bishwambhar Mishra	IoT Based Smart Applications. EAI/Springer Innovations in Communication and Computing Published on: 01 October 2022	Springer, Cham	Online ISBN 978-3-031-04524-0	Chapter 3 Smart Health Care by Harnessing the Internet of Things (IoT): Applications, Challenges, and Future Aspects	https://doi.org/10.1007/978-3-031-04524-0_3	SDG 3 SDG 9 SDG 12

12	C. Nagendranatha Reddy, & Rajasri, Y	Current Developments in Biotechnology and Bioengineering: Photobioreactors: Design and Applications Published on: 27 January 2023	Elsevier	ISBN: 978-0-323-99911-3	Chapter 4 Factors affecting the microalgal biomass productivity in photobioreactors	https://doi.org/10.1016/B978-0-323-99911-3.00003-8	SDG 6 SDG 7 SDG 9 SDG 12 SDG 13
13	C. Nagendranatha Reddy, B Mishra, SK Mandal,	Polysaccharides of Microbial Origin Published on: 01 March 2023	Springer	978-3-030-35734-4	Chapter 8 An Insight into Pullulan and Its Potential Applications	https://doi.org/10.1007/978-3-030-35734-4_15-1	SDG 2 SDG 3 SDG 9 SDG 12
14	C. Nagendranatha Reddy, Y. Vineetha, A. Priyanka, A. Shalini, Bishwambhar Mishra, Y. Rajasri	Biofuels and Bioenergy Published on: 24 July 2022	Elsevier	978-032-39-0040-9	Chapter 29 Techno-economic and environmental impact analysis of biofuels produced from microalgal biomass	https://doi.org/10.1016/B978-0-323-90040-9.00006-0	SDG 7 SDG 9 SDG 12 SDG 13