



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Affiliated to Osmania University

**Department of Biotechnology**

## List of Quality Publication – Q1 Journals

Academic Year: 2024-25 (Total 6)				
S.L No	Faculty Name(s)	Title of the Paper, Journal, Date of publication	Name of the Journal and Publisher	Scopus Citation
1	Papathoti NK, Kanduri BH, Gorrekanti K, <b>Obula Reddy chittepu</b> , 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 Methylococcus capsulatus using the protein-protein interactions and molecular dynamics simulations <a href="https://doi.org/10.1016/j.biombioe.2025.108031">https://doi.org/10.1016/j.biombioe.2025.108031</a> <b>Published on: 13 June 2025</b>	Biomass and Bioenergy (Elsevier) <b>I.F:5.8</b>	<b>0</b>
2	P. Mullai, S.M. Sambavi, S. Vishali, <b>K. Dharmalingam</b> , 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, <a href="https://doi.org/10.1016/j.jenvman.2025.125508">https://doi.org/10.1016/j.jenvman.2025.125508</a> <b>Published on: 5 May 2025</b>	Journal of Environmental Management (Elsevier) <b>I.F:8.4</b>	<b>2</b>
3	<b>Mishra, Bishwambhar</b> , Parashuram Kallem, <b>Rajasri Yadavalli, Sanjeeb Kumar Mandal, C. Nagendranatha Reddy, B. Sumithra, N. S. Lakshmayya</b> , and Fawzi Bana.	Industrial wastewater treatment using extracellular polymer substances/biofloculants: a review. <a href="https://doi.org/10.1007/s13201-025-02401-9">https://doi.org/10.1007/s13201-025-02401-9</a> <b>Published on: 20 February 2025</b>	Applied Water Science (Springer) <b>I.F:6.2</b>	<b>9</b>
4	Mullai, P., S. Vishali, and <b>K. Dharmalingam</b> .	Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater. <a href="https://doi.org/10.1016/j.jtice.2024.105381">https://doi.org/10.1016/j.jtice.2024.105381</a> <b>Published on: 6 February 2024</b>	Journal of the Taiwan Institute of Chemical Engineers (Elsevier) <b>I.F:6.3</b>	<b>0</b>
5	<b>Mishra, Bishwambhar</b> , 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. <a href="https://doi.org/10.1016/j.ijbiomac.2024.135583">https://doi.org/10.1016/j.ijbiomac.2024.135583</a> <b>Published on: 11 September 2024</b>	International Journal of Biological Macromolecules (Elsevier) <b>I.F:8.5</b>	<b>67</b>

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## List of Quality Publication – Q1 Journals

6	Mohanta, Y.K., Biswas, K., Mishra, A.K., Patra, B., <b>Mishra, B.</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. <a href="https://doi.org/10.1039/d4ra04807e">https://doi.org/10.1039/d4ra04807e</a> <b>Published on: 02 Sep 2024</b>	RSC advances (Royal Society of Chemistry) <b>I.F:4.5</b>	<b>14</b>
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## List of Quality Publication – Q1 Journals

Academic Year: 2023-24 (Total 7)				
S.L No	Faculty Name(s)	Title of the Paper, Journal, Date of publication	Name of the Journal and Publisher	Scopus Citation
1	Mullai, P., S. Vishali, and K. Dharmalingam	Residence time distribution experiments in a hybrid anaerobic blanket reactor treating real pharmaceutical wastewater <a href="https://doi.org/10.1016/j.jitice.2024.105381">https://doi.org/10.1016/j.jitice.2024.105381</a> Published on: 6 February 2024	Journal of the Taiwan Institute of Chemical Engineers (Elsevier) I.F:6.3	3
2	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 <a href="https://doi.org/10.1007/s10668-024-04969-9">https://doi.org/10.1007/s10668-024-04969-9</a> Published on: 29 April 2024	Environment, Development and Sustainability (Springer) I.F:4.5	6
3	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 <a href="https://doi.org/10.1016/j.foodchem.2024.138945">https://doi.org/10.1016/j.foodchem.2024.138945</a> Published on: 5 March 2024	Food Chemistry (Elsevier) I.F:9.8	110
4	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. <a href="https://doi.org/10.1186/s43014-023-00200-w">https://doi.org/10.1186/s43014-023-00200-w</a> Published on: 27 February 2024	Food Production, Processing and Nutrition (Springer) I.F:6.8	52
5	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 <a href="https://doi.org/10.1016/j.psep.2024.01.055">https://doi.org/10.1016/j.psep.2024.01.055</a> Published on: 19 January 2024	Process Safety and Environmental Protection (Elsevier) I.F:7.8	138



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<b>6</b>	Ramesh Sharma, Pinku Chandra Nath, Yugal Kishore Mohanta, Biswanath Bhunia, <b>Bishwambhar Mishra</b> , Minaxi Sharma, Shweta Suri, Maharshi Bhaswant, Prakash Kumar Nayak, Kandi Sridhar	Recent advances in cellulose-based sustainable materials for wastewater treatment: An overview <a href="https://doi.org/10.1016/j.ijbiomac.2023.128517">https://doi.org/10.1016/j.ijbiomac.2023.128517</a> <b>Published on: 29 November 2023</b>	International Journal of Biological Macromolecules (Elsevier) <b>I.F:8.5</b>	<b>66</b>
<b>7</b>	P Mullai, S Vishali, SM Sambavi, <b>K Dharmalingam</b> , 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 <a href="https://doi.org/10.1016/j.chemosphere.2023.139950">https://doi.org/10.1016/j.chemosphere.2023.139950</a> <b>Published on: 28 August 2023</b>	Chemosphere (Elsevier) <b>I.F:8.1</b>	<b>4</b>



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## List of Quality Publication – Q1 Journals

Academic Year: 2022-23 (Total 3)				
S.L No	Faculty Name(s)	Title of the Paper, Journal, Date of publication	Name of the Journal and Publisher	Scopus Citation
1	<b>C. Nagendranatha Reddy</b> , Parashuram Kallem, K.V.S.S.N. Mounika, Abdul Muqet, J Caleb Joel Raj, C.V.S. Aishwarya, Rakesh Kumar Gupta, Veerababu Poliseti, <b>Bishwambhar Mishra</b> , <b>Y. Rajasri</b> , <b>Sanjeeb Kumar Mandal</b> , Mikael S. Hedenqvist, Fawzi Banat	Review of microplastic degradation: Understanding metagenomic approaches for microplastic degrading organisms <a href="https://doi.org/10.1016/j.polymertesting.2023.108223">https://doi.org/10.1016/j.polymertesting.2023.108223</a> <b>Published on: 27 September 2022</b>	Polymer Testing (Elsevier) <b>I.F:6.0</b>	<b>26</b>
2	<b>Rajasri Yadavalli</b> , Praharshita Valluru, Roshni Raj, C. <b>Nagendranatha Reddy</b> , <b>Bishwambhar Mishra</b>	Biological detoxification of mycotoxins: Emphasizing the role of algae <a href="https://doi.org/10.1016/j.algal.2023.103039">https://doi.org/10.1016/j.algal.2023.103039</a> <b>Published on: 4 March 2023</b>	Algal Research (Elsevier) <b>I.F:4.5</b>	<b>16</b>
3	<b>Mishra B</b> , Muthupandian S, Barabadi H, Tayung K and Mohanta YK	Editorial: Anti-cancer bioactive molecules from microbial sources <a href="https://doi.org/10.3389/fphar.2023.1190354">https://doi.org/10.3389/fphar.2023.1190354</a> <b>Published on: 13 April 2023</b>	Frontiers in Pharmacology (Frontiers Group) <b>I.F:4.5</b>	<b>2</b>

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