

DEPARTMENT OF BIOTECHNOLOGY ENGINEERING
Research Paper Publications for AY August 01st 2023 – July 31st 2024

SI No	Month	Paper	Details
1	November	Naaz S, Shet, V.B. , Mubarak, N.B., Green synthesis of copper oxide nanoparticles: Characterization and applications for environmental and biomedical fields, The Canadian Journal of Chemical Engineering. 2023, https://doi.org/10.1002/cjce.25142)	Journal: The Canadian Journal of Chemical Engineering, Q2, Scopus, ISSN: 00084034, 1939019X, SJR: 0.44 H: Index: 75
2	November	Soman S, Kulkarni S, Pandey A, Dhas N, Shirur KS, Gude RS, Vidya SM, Nayak S , George SD, and Mutalik S. Unlocking the Power of MXenes—Crafting a 2D Nanoplatfrom for Tomorrow: Synthesis, Functionalization, Stability, and Biomedical Applications Materials Today Communications. 2023107711. https://doi.org/10.1016/j.mtcomm.2023.107711	Journal: Materials Today Communication, Q2, Scopus, Impact Factor: 3.8, H Index: 36, Cite Score: 4.1, SJR: 0.644, ISSN: 2352-4928 Journal Link: https://www.sciencedirect.com/journal/materials-today-communications
3	December	Vinayagam, R., Nagendran, V., Goveas, L.C. , Narasimhan, M.K., Varadavenkatesan, T., Chandrasekar, N. and Selvaraj, R. Structural characterization of marine macroalgae derived silver nanoparticles and their colorimetric sensing of hydrogen peroxide, Materials Chemistry and Physics, 2024, Volume 313, https://doi.org/10.1016/j.matchemphys.2023.128787 .	Journal: Materials Chemistry and Physics Q1, Scopus and Web of Science, H Index: 170 ISSN: 02540584, CiteScore: 7.7 SNIP: 1.01, SJR: 0.75, Impact Factor: 4.6. Journal Link: https://www.sciencedirect.com/journal/materials-chemistry-and-physics

4	December	Goveas, L.C. , Selvaraj, R., Vinayagam, R. and Sajankila, S.P. , 2023. Rhamnolipid assisted degradation of petroleum crude oil by indigenous <i>Pseudomonas</i> sp. WDE11 in seawater. <i>Journal of Environmental Chemical Engineering</i> , Volume 12, Issue 1, 2024, 111693, https://doi.org/10.1016/j.jece.2023.111693	Journal: Journal of Environmental Chemical Engineering Q1, Scopus and Web of Science, H Index: 107 ISSN: 02540584, CiteScore: 9.5, SJR: 1.2, Impact Factor: 7.7, Journal Link: https://www.sciencedirect.com/journal/journal-of-environmental-chemical-engineering
5	January	Goveas, L. C. , Nayak, S. , Kumar, P. S., Vinayagam, R., Selvaraj, R., & Rangasamy, G. (2024). Recent advances in fermentative biohydrogen production. <i>International Journal of Hydrogen Energy</i> . 54: 200-217 https://doi.org/10.1016/j.ijhydene.2023.04.208	Journal: Q1, Scopus and Web of Science, H Index:248, ISSN: , CiteScore: 12.1 SNIP:1.423 , SJR: 1.32, Impact Factor: 7.2, Journal Link: https://www.sciencedirect.com/journal/international-journal-of-hydrogen-energy
6.	January	Vinayagam R, Nagendran V, Goveas, L. C. , Narasimhan M. K., Varadavenkatesan, T, Samanth A, Selvaraj Rj, (2024), Machine learning, conventional and statistical physics modeling of 2,4-Dichlorophenoxyacetic acid (2,4-D) herbicide removal using biochar prepared from <i>Vateria indica</i> fruit biomass, <i>Chemosphere</i> , 350, https://doi.org/10.1016/j.chemosphere.2024.141130	Journal: Chemosphere, Q1, Scopus and Web of Science, H Index: 288 ISSN: 0045-6535, CiteScore: 13.3, SNIP: 1.708, SJR: 1.632, Impact Factor: 8.8 Journal Link: https://www.sciencedirect.com/journal/chemosphere
7.	February	S. Murthuza, B. K. Manjunatha, S. M. Vidya , F. K. Shaikh, V. N. Magare and R. L. S. Hallur, Isolation, Purification and Anti-Cancer Potency of Novel Compound 6-Ethyl-3-Hydroxy-4-Methyl-8aH-Xanthen- 9(10aH)-One from <i>Mesua ferrea</i> Linn from Western Ghats of Karnataka, <i>Indian Journal of Pharmaceutical Sciences</i> , 2023, 85(6):1702-1712. DOI: 10.36468/pharmaceutical-sciences.1226	

8.	February	Selvaraj R, Nagendran V, Murugesan G, Goveas LC , Varadavenkatesan T, Samanth A, Vinayagam R, Brindhadevi K. Synthesis of magnetic biochar composite using Vateria indica fruits through in-situ one-pot hydro-carbonization for Fenton-like catalytic dye degradation. Environmental Research.2024, 250:118414. https://doi.org/10.1016/j.envres.2024.118414	Journal: Q1, Scopus and Web of Science, H Index:164, Print ISSN: 0013-9351 Online ISSN: 1096-0953 CiteScore: 11 SNIP: 1.8 , SJR: 1.64, Impact Factor: 8.3 Journal Link: https://www.sciencedirect.com/journal/environmental-research
9.	March	Vinayagam R, Nagendran V, Murugesan G, Goveas LC , Varadavenkatesan T, Samanth A, Selvaraj R. In-situ one-pot synthesis, characterization of magnetic hydrochar and its application as Fenton-like catalyst for the degradation of methylene blue dye. Materials Chemistry and Physics. 2024, 317:129160. https://doi.org/10.1016/j.matchemphys.2024.129160	Journal: Materials Chemistry and Physics Q1, Scopus and Web of Science, H Index: 170 ISSN: 02540584, CiteScore: 7.7 SNIP: 1.01, SJR: 0.75, Impact Factor: 4.6. Journal Link: https://www.sciencedirect.com/journal/materials-chemistry-and-physics
10.	March	Selvaraj R, Jogi S, Murugesan G, Srinivasan NR, Goveas LC , Varadavenkatesan T, Samanth A, Vinayagam R, Alshehri MA, Arivalagan P. Machine learning and statistical physics modeling of tetracycline adsorption using activated carbon derived from Cynometra ramiflora fruit biomass. Environmental Research. 2024, 252:118816. https://doi.org/10.1016/j.envres.2024.118816	Journal: Q1, Scopus and Web of Science, H Index:164, Print ISSN: 0013-9351 Online ISSN: 1096-0953 CiteScore: 11 SNIP: 1.8 , SJR: 1.64, Impact Factor: 8.3

			Journal Link: https://www.sciencedirect.com/journal/environmental-research
11.	April	Vasappa RK, Mohan DS, Mutalik S, Krishnaswamy MB, Srinivasalu AK , Suryanarayana M, Muddappa VS . In vivo toxicity and biodistribution of intravenously administered antibiotic-functionalized gold nanoparticles. Gold Bulletin. 2024, 1-2. https://doi.org/10.1007/s13404-024-00343-9	Journal: Q2, Scopus, H Index:67 ISSN: , 2364-821X CiteScore: SNIP: , SJR: , Impact Factor: 2.2
12	May	Miyar HK, Jathanna NN, Selvaraj R, Vinayagam R, Pugazhendhi A, Goveas LC . Multifunctional Hydrophobin-Like Protein (HFB-NJ1): A Versatile Solution for Wastewater Treatment. Environmental Research. 2024, 255,:119139. https://doi.org/10.1016/j.envres.2024.119139	Journal: Q1, Scopus and Web of Science, H Index:164, Print ISSN: 0013-9351 Online ISSN: 1096-0953 CiteScore: 11 SNIP: 1.8 , SJR: 1.64, Impact Factor: 8.3 Journal Link: https://www.sciencedirect.com/journal/environmental-research
13	June	Goveas, L.C. , Nagendran, V., Selvaraj, R., Vinayagam, R., Nayak, S. Polyaromatic hydrocarbon removal from wastewater using sustainable carbon-based adsorbents: A recent update. <i>Clean Techn Environ Policy</i> (2024). https://doi.org/10.1007/s10098-024-02921-z	Journal: Q1, Scopus and Web of Science, H Index: 75, 1618-9558, Print ISSN 1618-954X, CiteScore: 6.2 SNIP: , SJR: , Impact Factor: 4.2
14.	July	Selvaraj R, Nagendran V, Varadavenkatesan T, Goveas LC , Vinayagam R. Stable Silver Nanoparticles Synthesis Using Tabebuia aurea Leaf Extract for Efficient Water Treatment: A Sustainable Approach to Environmental Remediation. Chemical Engineering Research and Design. 2024, Volume 208 , Pages 456-463, https://doi.org/10.1016/j.cherd.2024.07.012	Journal: Q2, Scopus and Web of Science, H Index: 125, Print ISSN: 0263-8762 Online ISSN: 1744-3563

			, CiteScore: 6.1 SNIP: , SJR: 0.66, Impact Factor: 3.7
15	October	Poojari M, Vardhan H, Jathanna HM , Reddy DG. Microwave and Ultrasonic Pretreatment-Assisted Upgradation of Iron Ore of Karnataka Region from India. Journal of Mines, Metals & Fuels. 2023 Oct 1;71(10).10.18311/jmmf/2023/33576	Journal: Q4, Scopus, H Index: 13, ISSN , 0022-2755, SJR: 0.11,
16	April	Poojari M, Jathanna HM, Vijay VS, Mendonca S, DSilva R. Analysis of Lightweight Braking Material System for an ATV. Journal of The Institution of Engineers (India): Series D. 2024 Apr 23:1-1.	Journal: Q3, Scopus, H Index: 19, ISSN, 22502122, 22502130 , SJR: 0.11,

Book/Book Chapters for AY August 01st 2023 – July 31st 2024

Sl No	Name	Book/Book Chapter Details	ISSN/ISBN Number
1	Harshitha M Jathanna, G Santhosh	Book Chapter Titled “Biopolymer Sustainable Films: Mechanical and Biological Properties” in Tailored Functional Materials for Clean and Sustainable Development by Apple Academic Press Inc., CRC Press, Taylor & Francis Group	978-1-77491-365-9 (hbk); 978-1-77491-365-6 (pbk); 978-1-77491-365-1 (ebk)
2	Lokitha Paduvetnaya, Kamath H. Venkatesh* and Harishkumar Madhyastha	Book Chapter titled “Metabolic Materials from Cyanobacteria and Microalgae: Biotechnology, Biochemistry and Biotherapeutics: In: Harnessing Microbial Potential for Multifarious Applications by Springer Singapore Month & Year: April 2024 DOI: https://doi.org/10.1007/978-981-97-1152-9	978-981-97-1151-2(hbk), 978-981-97-1154-3(ebk)
3	Chetan DM, Bommegowda K	Book Titled “Bio-Medical Instruments and its Applications” Published by IP Innovative Publication Pvt. Ltd.; First Edition (7 October 2023)	ISBN-10 : 9391208967 ISBN-13 : 978-9391208967

4	Chetan DM, Jayachandra S Yaradoddi, B.S. Priya, Nanjunda Swamy Ramesh S Bhat	Book Titled A-Z MCQs in Microbiology for UGC-CSIR NET Life Sciences Exam Publisher : IP Innovative Publication Pvt. Ltd.; First Edition (16 January 2023)	ISBN-10 : 9391208665 ISBN-13 : 978-9391208660
5	I. R. Mithanthaya, Vinataka B Shet and Mokhsitha M	Experimental Study on Strength Properties of Concrete Incorporated with Bacteria. In: Menon, N.V.C., Kolathayar, S., Rodrigues, H., Sreekeshava, K.S. (eds) Recent Advances in Civil Engineering for Sustainable Communities. IACESD 2023. Lecture Notes in Civil Engineering, vol 459. Springer, Singapore. https://doi.org/10.1007/978-981-97-0072-1_4	Print ISBN 978-981-97-0071-4 Online ISBN 978-981-97-0072-1