

DEPARTMENT OF BIOTECHNOLOGY ENGINEERING
RESEARCH PAPER PUBLICATIONS FOR AY AUGUST 01ST 2022 – JULY 31ST 2023

Sl No	Month	Paper	Details
1	August	Ghate, P., Prabhu, D., Murugesan, G., Goveas, L.C. , Varadavenkatesan, T., Vinayagam, R., Chi, N.T.L., Pugazhendhi, A. and Selvaraj, R., Synthesis of hydroxyapatite nanoparticles using Acacia falcata leaf extract and study of their anti-cancerous activity against cancerous mammalian cell lines. <i>Environmental Research</i> , 2023. .113917. https://doi.org/10.1016/j.envres.2022.113917	Journal: Environmental Research , Q1, Scopus WoS, Impact Factor 8.431 H Index: 149, Cite Score: 9.5, SJR: 1.51, SNIP: 1.758, ISSN: 00139351 10960953, Journal Link: https://www.sciencedirect.com/journal/environmental-research
2	August	Goveas LC , Selvaraj R, Kumar PS, Vinayagam R, Sajankila SP . Biodegradation kinetics and metabolism of Benzo (a) fluorene by Pseudomonas strains isolated from refinery effluent. <i>Chemosphere</i> . 2022, 307:136041. https://doi.org/10.1016/j.chemosphere.2022.136041	Journal: Chemosphere, Q1, Scopus and Web of Science, H Index: 265 ISSN: 0045-6535, CiteScore: 11.7, SNIP: 1.708, SJR: 1.632, Impact Factor: 8.943 Journal Link: https://www.sciencedirect.com/journal/chemosphere
3	September	Goveas LC , Selvaraj R, Sajankila SP . Characterization of biosurfactant produced in response to petroleum crude oil stress by <i>Bacillus</i> sp. WD22 in marine environment. <i>Brazilian Journal of Microbiology</i> . 2022 September 2 https://doi.org/10.1007/s42770-022-00811-4	Journal: Brazilian Journal of Microbiology, Q3, Scopus and Web of Science, H Index: 70, Electronic ISSN: 1678-4405, Print ISSN: 1517-8382, Cite Score: 3.9, SJR: 0.497, SNIP: 1.114. Impact Factor: 2.476 Journal Link:

			https://www.springer.com/journal/42770
4	September	Bhat Agni M, Hegde PS, Ullal H, Damodara Gowda KM. Nutritional efficacy of Astaxanthin in modulating orexin peptides and fatty acid level during adult life of rats exposed to perinatal undernutrition stress. Nutritional Neuroscience. 2022 Sep 21, 25(9):1-13 https://doi.org/10.1080/1028415X.2022.2123184	Journal: Nutritional Neuroscience, Q1, Scopus, H Index: 63, ISSN: 1028-415X, Cite Score: 8.4, SJR: 0.718, SNIP:0.961 , Impact Factor: 4.062 Journal Link: https://www.tandfonline.com/doi/full/10.1080/1028415X.2022.2123184?scroll=top&needAccess=true
5	October	Nayak S, Goveas LC, Selvaraj R, Vinayagam R, Manickam S. Advances in the Utilization of Carbon-Neutral Technologies for a Sustainable Tomorrow: A Critical Review and the Path Forward. Bioresource Technology. 2022, 364:128073, https://doi.org/10.1016/j.biortech.2022.128073	Journal: Bioresource technology, Q1, Scopus WOS, H Index: 317, Cite Score: 17.4, SJR: 2.35, SNIP: 2.06, ISSN: 09608524, Impact Factor: 11.889, Journal Link: https://www.sciencedirect.com/journal/bioresource-technology
6.	October	Chetan D. M, Raghavendra H. L, Ramesh S. Bhat, Narendra Kumar S, Venkatesh Kamath H, Assessment of physicochemical characteristics of various water sources, 13(6), 2022 DOI: 10.47750/pnr.2022.13.S06.196	Journal: Journal of Pharmaceutical negative results, Q4, Scopus, H Index: 6, SJR: 0.13, ISSN [0976-9234]

			Journal Link: https://www.pnrjournal.com/index.php/home
7.	October	Vinayagam R, Ganga S, Murugesan G, Rangasamy G, Bhole R, Goveas LC , Varadavenkatesan T, Dave N, Samanth A, Devi VR, Selvaraj R. 2, 4-Dichlorophenoxyacetic acid (2, 4-D) adsorptive removal by algal magnetic activated carbon nanocomposite. Chemosphere, Volume: 310, 2022, 136883. https://doi.org/10.1016/j.chemosphere.2022.136883	Journal: Chemosphere, Q1, Scopus and Web of Science, H Index: 265 ISSN: 0045-6535, CiteScore: 11.7, SNIP: 1.708, SJR: 1.632, Impact Factor: 8.943 Journal Link: https://www.sciencedirect.com/journal/chemosphere
8.	October	Selvaraj R, Prabhu D, Kumar PS, Rangasamy G, Murugesan G, Rajesh M, Goveas LC , Varadavenkatesan T, Samanth A, Balakrishnaraja R, Vinayagam R. Adsorptive removal of tetracycline from aqueous solutions using magnetic Fe ₂ O ₃ /activated carbon prepared from <i>Cynometra ramiflora</i> fruit waste. Chemosphere. Vol 310, 2022, 136892. https://doi.org/10.1016/j.chemosphere.2022.136892	Journal: Chemosphere, Q1, Scopus and Web of Science, H Index: 265 ISSN: 0045-6535, CiteScore: 11.7, SNIP: 1.708, SJR: 1.632, Impact Factor: 8.943 Journal Link: https://www.sciencedirect.com/journal/chemosphere
9.	October	Goveas LC , Nayak S , Vinayagam R, Show PL, Selvaraj R. Microalgal remediation and valorization of polluted wastewaters for zero-carbon circular bioeconomy. Bioresource Technology. 2022, Vol 365, pp. 128169. https://doi.org/10.1016/j.biortech.2022.128169	Journal: Bioresource technology, Q1, Scopus WOS, H Index: 317, Cite Score: 17.4, SJR: 2.35, SNIP: 2.06, ISSN: 09608524, Impact Factor: 11.889, Journal Link: https://www.sciencedirect.com/journal/bioresourcetechnology

10.	November	Chetan D. M1, Raghavendra H. L2, *, Narendra Kumar S2, Venkatesh Kamath H4. Anilkumar HS "Production and characterization of levan by bacteria found in solid wastes, <i>Journal of Neuroquantology</i> : Volume13: Special Issue. 6:2022, PAGE 3744-3752 DOI:10.14704/NQ.2022.20.12. NQ773701	Journal: <i>Journal of Neuroquantology</i> Q3, Scopus H Index: 21, SJR: 0.28 SNIP: 2.06, ISSN: 13035150, I
11.	November	Vinayagam R, Hebbar A, Kumar PS, Rangasamy G, Varadavenkatesan T, Murugesan G, Srivastava S, Goveas LC , Kumar NM, Selvaraj R. Green synthesized cobalt oxide nanoparticles with photocatalytic activity towards dye removal from water environment. <i>Environmental Research</i> . 2022, 216:114766. https://doi.org/10.1016/j.envres.2022.114766	Journal: <i>Environmental Research</i> , Q1, Scopus and Web of Science, H Index: 149 ISSN: 00139351, 10960953 CiteScore: 9.1, Impact Factor: 8.431, SJR: 151 Journal Link: https://www.sciencedirect.com/journal/environmental-research
12	November	Vinayagam R, Quadras M, Varadavenkatesan T, Debraj D, Goveas LC , Samanth A, Balakrishnan D, Selvaraj R. Magnetic activated carbon synthesized using rubber fig tree leaves for adsorptive removal of tetracycline from aqueous solutions. <i>Environmental Research</i> . 2022, 216:114775. https://doi.org/10.1016/j.envres.2022.114775	Journal: <i>Environmental Research</i> , Q1, Scopus and Web of Science, H Index: 149 ISSN: 00139351, 10960953 CiteScore: 9.1, Impact Factor: 8.431, SJR: 151 Journal Link: https://www.sciencedirect.com/journal/environmental-research
13	November	Nayak S, Goveas LC , Selvaraj R, Mutalik S, Sajankila SP . Use of <i>Cyclea peltata</i> mediated gold nanospheres for adsorptive degradation of methyl green dye. <i>Bioresource Technology Reports</i> . 2022, 20:101261. https://doi.org/10.1016/j.biteb.2022.101261	Journal: <i>Bioresource Technology Reports</i> , Q1, Scopus, H Index: 27, Cite Score: 6.2, SNIP: 0.837, ISSN: 2589014X, Journal Link: https://www.journals.elsevier.com/bioresource-technology-reports
14.	November	Vinayagam R, Murugesan G, Varadavenkatesan T, Bhole R, Goveas LC , Samanth A, Ahmed MB, Selvaraj R. Algal biomass-derived nano-activated carbon for the rapid removal of tetracycline by adsorption: Experimentation and adaptive neuro-fuzzy inference system modeling. <i>Bioresource Technology Reports</i> . 2022, 20:101291. https://doi.org/10.1016/j.biteb.2022.101291	Journal: <i>Bioresource Technology Reports</i> , Q1, Scopus, H Index: 27, Cite Score: 6.2, SNIP: 0.837, ISSN: 2589014X, Journal Link: https://www.journals.elsevier.com/bioresource-technology-reports
15.	December	Vinayagam R, Kandati S, Murugesan G, Goveas LC , Baliga A, Pai S, Varadavenkatesan T, Kaviyarasu K, Selvaraj R. Bioinspiration synthesis of	Journal: <i>Journal of Materials Research and Technology</i>

		hydroxyapatite nanoparticles using eggshells as a calcium source: Evaluation of Congo red dye adsorption potential. Journal of Materials Research and Technology. 2022. Vol 22, Pages 169-180, https://doi.org/10.1016/j.jmrt.2022.11.093	, Q1, Scopus, H Index: 59, Impact Factor: 6.267, Cite Score: 5.9, SNIP: 0.1672, SJR: 0.964, ISSN: 2589014X, Journal Link: https://www.sciencedirect.com/journal/journal-of-materials-research-and-technology
16.	December	Navalgund L, Joshi K, Deshannavar U, Shet VB , Emani S, Velidi G. Studies on removal of RBB and Safranin-O dyes from aqueous solution using concentrated acid treated red mud (CATRM) as adsorbent. REVIEWS OF ADHESION AND ADHESIVES. 2022 Aug 31;10(4).	Journal: REVIEWS OF ADHESION AND ADHESIVES Link: https://raajournal.com/menuscript/index.php/raajournal/article/view/318 Q3, Scopus, H Index: 16, ISSN: 2168-0965, E-ISSN: 2168-0973 Cite Score : 2.5, SJR : 0.317, SNIP: 0.528
17.	January	Goveas, L.C., Nayak, S., Kumar, P.S., Rangasamy, G., Vidya, S.M., Vinayagam, R., Selvaraj, R., Vo, D.V.N., 2023. Microplastics occurrence, detection and removal with emphasis on insect larvae gut microbiota. Marine Pollution Bulletin 188, 114580. https://doi.org/10.1016/J.MARPOLBUL.2023.114580	Journal: Marine Pollution Bulletin , Q1, Scopus, WOS, H Index: 193, Impact Factor: 7.001, Cite Score: 9.2, SNIP: 1.517, SJR: 1.508, Online ISSN: 1879-3363, Print ISSN: 0025-326X Journal Link: https://www.sciencedirect.com/journal/marine-pollution-bulletin
18.	January	Jathanna NN, Krishnamurthy GK, Paithankar JG, Hegde S, Goveas LC , Ravindranath BS, Gowdru M. Phyto-bacterial biosorption of basic fuchsin: A self-sustainable approach towards biomitigation of contaminant of emerging concern. Journal of Environmental Chemical Engineering. 2023, 11:109330. https://doi.org/10.1016/j.jece.2023.109330	Journal: Journal of Environmental Chemical Engineering , Q1, Scopus, WOS, H Index: 90, Impact Factor: 7.968, Cite Score: 7.7, SNIP: 1.354, SJR: 1.042, Online ISSN: 2213-3437, Print ISSN: 2213-2929

			Journal Link: https://www.sciencedirect.com/journal/journal-of-environmental-chemical-engineering
19.	February	Goveas LC , Selvaraj R, Vinayagam R, Sajankila SP , Pugazhendhi A. Biodegradation of benzo (a)pyrene by Pseudomonas strains, isolated from petroleum refinery effluent: Degradation, inhibition kinetics and metabolic pathway. Vol 321, Chemosphere. 2023, pp. :138066. https://doi.org/10.1016/j.chemosphere.2023.138066	Journal: Chemosphere, Q1, Scopus and Web of Science, H Index: 265 ISSN: 0045-6535, CiteScore: 11.7, SNIP: 1.708, SJR: 1.632, Impact Factor: 8.943 Journal Link: https://www.sciencedirect.com/journal/chemosphere
20.	February	Gowda SH, Dmello J, Poojary S . Process optimization of <i>Scleropyrum pentandrum</i> biodiesel production and study the effect of blends on CI engine characteristics for variation of engine parameters. Industrial Crops and Products. 2023, 194:116306.	Journal: Industrial Crops and Products, Q1, Scopus and Web of Science, H Index: 141, Online ISSN: 1872-633X Print ISSN: 0926-6690 , CiteScore: 9.6, SNIP: 1.706, SJR: 1.066, Impact Factor: 6.449 Journal Link: https://www.sciencedirect.com/journal/industrial-crops-and-products
21.	March	Nayak S, Goveas LC, Mutalik S, Sajankila, S. Onsite detection of cadmium and nickel using gold nanospheres and nanotriangles capped with <i>Cyclea peltata</i> phytochemicals, Environmental Nanotechnology Monitoring and Management, 2023, 20, 100815. http://dx.doi.org/10.1016/j.enmm.2023.100815	Journal: Environmental Nanotechnology Monitoring and Management, Q1, Scopus, Impact Factor: NIL, H Index: 36, Cite Score: 7.3, SJR: 0.86, ISSN: 2215-1532 Journal Link: https://www.sciencedirect.com/journal/environmental-nanotechnologymonitoring-and-management
22.	April	Chetan D. M , Raghavendra H.L.2, Narendra Kumar S.3, Patil Ravikumar H.S.4, Venkatesh4, Venkatesh Kamath H.4 and Bhat Ramesh S.5, Evaluation of	

		<i>Garcinia mangostana, Lantana camara and Piper betel for Pharmaceutical Applications . Intern. J. Zool. Invest. WOS . Vol. 9, No. 1, [737-743] (2023)</i> DOI: https://doi.org/10.33745/ijzi.2023.v09i01.082 .	
23	April	Poojari M, Hanumanthappa H, Prasad CD, Jathanna HM, Ksheerasagar AR, Shetty P, Shanmugam BK, Vasudev H. Computational modelling for the manufacturing of solar-powered multifunctional agricultural robot. International Journal on Interactive Design and Manufacturing (IJIDeM). 2023, 1-12, https://doi.org/10.1007/s12008-023-01291-y	International Journal on Interactive Design and Manufacturing (IJIDeM), Publisher Springer Scopus Indexed,ISSN No.: 1955-2505 (Electronic) 1955-2513 (Print) SJR: 0.486, IF: 2.64, Q2, H index: 28 https://www.springer.com/journal/12008
24	April	Goveas LC, Nayak S, Vinayagam R, Selvaraj R, Pugazhendhi A. Recent advances of Nano-photocatalysts involved in hydrogen production by water splitting. Fuel. 2023, 348:128460. https://doi.org/10.1016/j.fuel.2023.128460	Journal: Fuel, Q1, Scopus and, Web of Science, H Index: 243, ISSN: 0016-2361, CiteScore: 11.2, SNIP: 1.906, SJR: 1.514 Impact Factor: 8.035 Journal Link: https://www.sciencedirect.com/journal/fuel
25	April	Poojari M, Vardhan H, Jathanna HM. Iron Ore Characterization Techniques in Mineral Processing. Journal of The Institution of Engineers (India): Series D. 2023 May :1-9.	Journal Name Journal of The Institution of Engineers (India): Series D Publisher Springer Nature Scopus Indexed (Yes/No) Yes SJR: 0.229, IF: 0.257, Q status: Q2, H index: 16, Journal Link: https://www.springer.com/journal/40033 , ISSN No.: 22502130,

			22502122
26	May	Shet VB, Kumar PS, Vinayagam R, Selvaraj R, Vibha C, Rao S, Pawan SM, Poorvika G, Quintero VM, Ujwal P, Rajesh KS. Cocoa pod shell mediated silver nanoparticles synthesis, characterization, and their application as nanocatalyst and antifungal agent. Applied Nanoscience. 2023 May 10:1-1. https://doi.org/10.1007/s13204-023-02873-8	Journal: Applied Nanoscience, Q2, Scopus and, Web of Science, H Index: 69, IF: 3.674 ISSN: 2190-5517, SJR - 0.49, Journal Link: https://www.springer.com/journal/13204
27	May	Vinayagam R, Kar A, Murugesan G, Varadavenkatesan T, Goveas LC , Samanth A, Ahmed MB, Selvaraj R. Low temperature carbonized mesoporous graphitic carbon for tetracycline adsorption: Mechanistic insight and adaptive neuro-fuzzy inference system modeling. Bioresource Technology Reports. 2023, Vol 22, pp. 101468, https://doi.org/10.1016/j.biteb.2023.101468	Journal: Bioresource Technology Reports, Q1, Scopus, H Index: 27, Cite Score: 6.2, SNIP: 0.837, ISSN: 2589014X, Journal Link: https://www.journals.elsevier.com/bioresource-technology-reports
28	June	Vibha R, Sandesh K, Ujwal P, Shet VB. RSM-and ANN-based modeling for a novel hydrolysis process of lignocellulose residues to produce cost-effective fermentable sugars. Biomass Conversion and Biorefinery. 2023 Jun 23:1-6.	Journal: Biomass Conversion and Biorefinery, Q3, Scopus, H Index: 39, SJR: 0.539 ISSN: 2190-6815, Journal Link: https://www.springer.com/journal/13399s
29	July	Sagar Seetharamaiah, Vidya Shimoga Muddappa , Manjunatha Bukkambudhi Krishnaswamy, · Rashmi Kanugodu Vasappa, 2023, Antineoplastic Effects of Mucuna pruriens Against Human Colorectal Adenocarcinoma, Applied Biochemistry and Biotechnology, https://doi.org/10.1007/s12010-023-04598-4	Journal: Applied Biochemistry and Biotechnology, Q2, Scopus, H Index: 127, IF: 3.0, SJR: 0.51 ISSN: 0273-2289, Journal Link: https://www.springer.com/journal/12010

DEPARTMENT OF BIOTECHNOLOGY ENGINEERING
Book/Book Chapters for AY August 01st 2022 – July 31st 2023

Sl No	Name	Book/ Book Chapter Details	ISSN/ISBN Number
1	Chetan DM, Narendra Kumar M, Anil Kumar HS	Textbook on Microbes and Diseases by IP Innovative Publication Pvt. Ltd- New Delhi.	978-93-91208-43-1
2	Louella Concepta Goveas, Sneha Nayak	Enhancing Petroleum hydrocarbon by indigenous microorganisms: Design of Experiments Strategies: In Synergistic Approaches for Bioremediation of Environmental Pollutants: Recent Advances and Challenges published by Academic Press (Elsevier)	978-03-23918-60-2
3	Satyendra Kumar Shet, Vinayaka B Shet	Role of Blockchain Technology:: Pandemic and Insight into Data Analysis for Covid-19. In Blockchain in Digital Healthcare 2021 Dec 29 (pp. 27-34). Chapman and Hall/CRC.	9781003133179
4	Vinayaka B. Shet, Keshava Joshi, Lokeshwari Navalgund	Future development, prospects, and challenges in application of nanomaterials and nanocomposites In Advanced Nanomaterials and Nanocomposites for Bioelectrochemical Systems, Link: https://doi.org/10.1016/B978-0-323-90404-9.00001-2 , published by Elsevier	978-0-323-90404-9

5	Dr. Chetan D.M., Dr. Jayachandra S. Yaradoddi Dr. B.S Priya, Dr. S. Nanjunda Swamy , Dr. Ramesh S. Bhat	A to Z MCQs in Microbiology For UGC-CSIR NET Life Sciences Exam Paperback published by Innovative Publishers, Jan 2023	ISBN-10 : 9391208665 ISBN-13 : 978-9391208660
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