

List of Publications for the Academic year 2022–2023

Department of Chemical Engineering

S. No.	Name of the Author/s	Title of the manuscript	Name of Journal, Volume, Issue No., Page No.	Impact factor	ISSN number	Year
1	Vinayagam V, Murugan S, Kumaresan, R, Narayanan Meyyappan , Sillanpää M, Vo, D.V.N., Kushwaha, O.S	Protein nanofibrils as versatile and sustainable adsorbents for an effective removal of heavy metals from wastewater: A review	Chemosphere, 301, 134635	8.1	00456535	2022
2	Vinayagam V, Murugan S, Kumaresan R, Narayanan Meyyappan , Sillanpää M, Dai Viet N.V, Kushwaha O.S, Jenis, P, Potdar P, Gadiya S	Sustainable adsorbents for the removal of pharmaceuticals from wastewater: A review	Chemosphere, 300, 134597	8.1	00456535	2022
3	Balaji. R , Saravanan. R, Govindarasu, R	Study on the impact of human factors on health and safety performance	International Journal of Health Sciences, 6, S5, 8081-809	2.4	1658-3639	2022
4	Saravanan. R, Govindarasu, R	Investigation on human factors influencing health and safety performance in the construction industry	Journal of Northeastern University	0.1	10053026	2022
5	Karthick S, Palani Ramaswamy , Sivakumar D and Meyyappan N	Biosorption of Cr (VI) ions by Ficus religiosa barks: Batch and continuous study	Membrane and Water Treatment, 13, 5, 209	0.88	20058624	2022

6	Nikitha Subran, Karnapa Ajit, Haribabu Krishnan, Senthilkumar Pachiyappan, Palani Ramaswamy	Synthesis and performance of a cathode catalyst derived from areca nut husk in microbial fuel cell	Chemosphere, 312, 137303	8.1	00456535	2023
7	Arsath Kader, Vishnuprasad Selvaraj, Palani Ramasamy , Karthick Senthilkumar	Experimental investigation on the thermo-physical properties and tribological performance of acidic functionalized graphene dispersed VG-68 hydraulic oil-based nanolubricant	Diamond & Related Materials, 133, 109740.	4.10	0925-9635	2023
8	Rajasekar Subramanyam , Meyyappan Narayanan	Artificial Neural Network Modeling For Drying Kinetics Of Paddy Using A Cabinet Tray Dryer	Chemical Industry & Chemical Engineering Quarterly, 29, 2, 87- 98	0.96	1451-9372	2023
9	Thanusha Thanihai Kumar, Ramesh Redrouthu , Ramesh Kanthasamy , Imtiaz Ali , Bamidele Victor Ayodele , Dai-Viet N.Vo, Kavitha Nagarasampatti Palani	Thermophysical properties and molecular interactions of fuel oxygenate mixture at different temperatures via Jouyban – Acree model	AIP Conf. Proc. 2682, 050012-1–050012-8;	0.41	0094243X, 15517616	2023
10	Naveen Kumar S, Jothi Ramalingam R , Muthusamy Karnan , Kavitha Nagarasampatti Palani	Degradation of organic/inorganic pollutants through photofenton membrane bioreactor (PFMBR) and lumped kinetic modeling in pharmaceutical effluent	Chemical Engineering and Processing - Process Intensification, 185, 109305	4.264	2552701	2023
11	Nithya Ramasamy, Kavitha Nagarasampatti Palani · Asha Mathew · Balasubramanian Natesan	Development of chitosan @ Fe ₂ O ₃ /rGO/Bi ₂ S ₃ as a new eco-friendly photocatalyst for enhancing the catalytic stability and superior	Research on Chemical Intermediates, 49, 6, 2603-2624	2.8	15685675	2023

		degradation of organic pollutants				
12	S. Naveen Kumar, Jothi Ramalingam Rajabathar, Muthusamy Karnan, Kavitha Nagarasampatti Palani	Estimation of effective diffusivity, thermodynamic parameter and drying kinetics exploration in coffee berries drying	Reaction Kinetics Mechanisms And Catalysis, 136, 3, 1371-1384	1.843	1878-5190	2023
13	Kavitha Nagarasampatti Palani , Balasubramanian N, Asha Mathew, Jhanani Karunagaran	Efficacy of Fenton Based Electrochemical Treatment in Rotating Disc Electrode Reactor for the Removal of Total Organic Carbon (TOC) from Pharmaceutical Wastewater through Different Modes	Journal of Advanced Chemical Engineering, 13, 3, 1-6.	0.13	2090-4568	2023
14	Divya Baskaran , Panchamoorthy Saravanan, V. Saravanan, R. Rajesh Kannan, S. Ramesh, M.Dilipkumar, R. Muthuvelayudham	Pomegranate peel utilization by an indigenous fungal strain of Trichoderma reesei NCIM 1186: Optimization and Kinetics studies on production of cellulase	Biomass Conversion and Biorefinery, 14, 5, 6435-6453.	4.05	21906815	2022
15	T Akshaya, M Aravind, S Manoj Kumar, Divya Baskaran	Evaluation of In-vitro Antibacterial Activity Against Gram-Negative Bacteria Using Silver Nanoparticles synthesized from <i>Dypsis lutescens</i> Leaf Extract	Journal of Chilean Chemical Society, 67, 2, 5477-5483	1.413	0717-9324	2022
16	Bogeshwaran Karunanithi, Kumar Manimaran, Muralidharan Srividhya	Isolation and characterization of amentoflavone - BSA coated polymer nanoparticles using Cassia fistula leaf extract against antibacterial and anticancer activity	Biomass Conversion and Biorefinery, 14,16319–16328	4.05	21906815	2023