

RESEARCH PUBLICATIONS AY 2023 -2024
DEPARTMENT OF CHEMICAL ENGINEERING

S. No.	Name of the Author/s	Title of paper	Name of Journal, Vol. No, Issue No. Page No., Year	Impact Factor	ISSN number	Year
1	R Govindarasu , Divya Baskaran, P Vignesh , Pranava Sai Raju N	Intensified extraction of geraniol from Palmarosa leaves using diverse hydrotrope - assisted extraction techniques	Biomass Conversion and Biorefinery, Volume 14, 10585–10598, 2024	3.5	2190-6815	2024
2	P. Abirami, V. Selvaraj, S. Mithran, M. Asmi, M. Narayanan , Palani R	Experimental studies of tannery wastewater treatment by combined electrocoagulation and ultrasonication processes using response surface methodology optimization	International Journal of Environmental Science and Technology, 21, 4, 3803-3818, 2024	3	1735-2630 / 1735-1472	2024
3	Rajesh Nithyanandam , Moontarij Jahan Orvy, Rajavarsini Rajesh, Rupika Rajendran, Jyotsna Sudhi Mithran	Review on Phytoremediation: Toxic Heavy Metal Removal.	Current analytical Chemistry, 2024, 20, 3, 147 – 161, 2024	1.8	1573-4110	2024
4	Rajesh Nithyanandam ; Rupika Rajendran, Rajavarsini Rajesh, Moontarij Orvy.	Review on Heavy Metal Removal and Efficacy of Biosorbents.	Current Nanoscience, 20,1, 2024	1.5	1573-4137	2024
5	Geetha M.B, Rajesh Nithyanandam , Jenish Soosai, S.S. Rajendran.	Investigating the Effects of Urea-Zinc Sulfate-L Phenylalanine on the Corrosion Inhibition of Mild Steel Exposed to pH-4 Sulfuric Acid.	Current Analytical Chemistry, 2024	1.8	1573-4110	2024

6	U Smruthi, Saliya Parveen, G . Sudha , Aswin Seghar, V. Ganesh	Studies on improvisation of Protein purification by foam fractionation	Journal of University of Shanghai for Science and Technology ,26, 04, 2024	0.2	1007-6735	2024
7	Vignesh Vinayagam , Kavitha Nagarasampatti Palani Sudha Ganesh , Siddharth Rajesh , Vedha Varshini Akula , Ramapriyan Avoodaiappan , Omkar Singh Kushwah, Arivalagan Pugazhendhi	Recent developments on advanced oxidation processes for degradation of pollutants from wastewater with focus on antibiotics and organic dyes	Environmental Research, 240, 117500, 2024	7.7	10960953	2024
8	N. P. Kavitha , N. Balasubramanian, R. Jothiramalingam , M. Karnan	Mathematical Modelling and Response Surface Methodology Approach of Electrocoagulation Hybrid Activated Sludge Process for an Efficient Removal of Selenium from Mining Wastewater	Journal of Water Chemistry and Technology, 2024, 46, 3, 338–354, 2024	0.5	1063455X	2024
9	R. Jothiramalingama, T. Radhika, N. P. Kavitha , H. Al-Lohedana, D. M. Aldhayan, M. Karnand	Synthesis, morphology and electrical property characteristics of MXene based titanium carbide (Ti ₃ C ₂ T _x) coating on non-woven cotton paper	Digest Journal of Nanomaterials and Biostructures, 19, 1, 15 – 24, 2024	1	18423582	2024
10	Johnsi Maria Singaraj, Asha Shalini Vincent Janet Mary, Poojitha Bhaskara, Supreetha Dhamodharan, Oviyan Selvamani, Kavitha Nagarasampatti Palani , Balasubramanian Natesan	A Detailed Discourse on the Epistemology of Lithium-Sulfur Batteries	Chemical Engineering & Technology, 47(3), 408-429, 2024	1.8	92460	2024

11	Ramasamy, N., Sivalingam, A., Saravanabhavan, S.S., Kavitha N Palani, Natesan, B	Preparation and evaluation of physicochemical studies of novel natural cellulose microfibril (CMF) reinforced poly (sodium acrylate) hydrogel.	Carbon Letters, 34(2), 743-755, 2024	5.5	22334998, 19764251	2024
12	Vinayagam, V., Kavitha N Palani, Ganesh, S., Kushwaha, O.S. Pugalenthi, A	Recent breakthroughs on the development of electrodeionization systems for toxic pollutants removal from water environment	Environmental Research, 117549, 2024	7.7	10960953	2024
13	Kumar, S. Naveen, M. Johnsi, VJ Asha Shalini, N. P. Kavitha, N. Balasubramanian	Cellulose nanofibril separator from Coffea arabica waste for supercapacitor applications	Industrial Crops and Products 214, 118459, 2024	5.6	9266690	2024
14	Kavitha Nagarasampatti Palani, Naveen kumar Saravanakumar,	CFD modeling of jet mixing to study the mixing performance and sludge Prevention in crude oil tanks,	Journal of University of Shanghai for Science and Technology ,26, 05, 2024	0.2	1007-6735	2024