



DEPARTMENT OF CHEMICAL ENGINEERING

List of Publications (July 2022- June 2023)

S. No	Name of the faculty	Title of the paper	Name of the Journal / Conference	Volume No, Issue No, Page No, (Month & Year)	Indexing Scopus/ SCI	Impact factor & Quartiles (Q1 / Q2/ Q3 / Q4)	Online Link of the paper (by clicking this link, paper should opened in online)
1.	Dr. S. Balasubramanian	Thermal Processing of Liquid Food in a Rectangular Prism-Type Container	AIP Conference Proceedings	2516,1, 410003, Nov 2022	Scopus	-	https://doi.org/10.1063/5.0108654
2.	Dr. S. Balasubramanian	Computational Fluid Dynamics studies on the flow of fluids through microchannel with intentional obstacles	AIP Conference Proceedings	2516, 1, 170003, Nov & 2022	Scopus	-	https://doi.org/10.1063/5.0108550
3.	Dr. S. Balasubramanian	Studies on the feasibility of bisphenol-A removal and its	Chemical Engineering Communications	210, 2, Pg 181-191, Feb & 2023	SCI	IF: 2.5 Q2	https://doi.org/10.1080/00986445.2021.2012462

		kinetics using Pseudomonas aeruginosa in both flask and an inverse fluidized bed reactor					
4.	Dr. S. Balasubramanian	Lipid Extraction from freshwater and marine microalgae using confined impinging jet mixer	AIP Conference Proceedings	2427, 1, 020058, Feb & 2023	Scopus	-	https://pubs.aip.org/aip/acp/article-abstract/2427/1/020058/2866452/Lipid-extraction-from-freshwater-and-marine?redirectedFrom=fulltext
5.	Dr. S. Balasubramanian	Impact on the effect of acetic acid in its aqueous forms on environments and its separation methods	AIP Conference Proceedings	2427, 1, 020047, Feb & 2023	Scopus	-	https://doi.org/10.1063/5.0101145

6.	Dr. S. Balasubramanian	Modelling and multi-objective optimization of parameters in fabrication and performance analysis of polyvinylidene fluoride spiral wound membrane modules	Polymer Bulletin	289, 22, 4361, Jul & 2022	SCI	IF: 3.2 Q2	https://doi.org/10.1007/s00289-022-04361-5
7.	Dr. G. Surendran	Removal of Hexavalent Chromium using Emulsion Liquid Membrane with jet mixer-a continuous approach	Chemical Engineering & Technology	46, 5, Pg 934-939 Feb & 2023	SCI	IF: 2.1 Q2	https://doi.org/10.1002/ceat.202200183
8.	Dr. S. Karunakaran	Synthesizers of Nanocatalyst for the Biodiesel from Tannery sludge; Characterization and Optimization	Theoretical Foundations of Chemical Engineering	56, 6, Pg 1140-1146, Jan & 2023	SCI	IF: 0.8 Q3	https://doi.org/10.1134/S0040579522060240
9.	Dr. S. Karunakaran	Investigation on the Mechanical Properties of Powder Metallurgy-Manufactured	Advances in Materials Science and Engineering	2023, May & 2023	Scopus	Q2	https://doi.org/10.1155/2023/3085478

		AA7178/ZrSiO ₄ Nanocomposites					
10	Dr. S. Karunakaran	Experimental investigation on the impact of mechanical properties of SiC, Al ₂ O ₃ and ZrSiO ₄ particles on AA6063 composites	Materials Today: Proceedings	May & 2023	Scopus	Q2	https://doi.org/10.1016/j.matpr.2023.05.259
11	Dr. R. Umapriya	A smart Irrigation system based on machine learning for effective plant development	International Journal for Food and Nutritional Sciences	11, 1, Pg 1830, 2022	Scopus	IF: 7.832	https://www.ijfans.org/issue-content/a-smart-irrigation-system-based-on-machine-learning-for-efficient-plant-development-932
12	Dr. M. Laxmi Deepak Bhatlu	Preparation of Breadfruit Leaf Biochar for the Application of Congo Red Dye Removal from Aqueous Solution and	Adsorption Science & Technology	Feb & 2023	SCI	IF: 2.9 Q2	https://doi.org/10.1155/2023/7369027

		Optimization of Factors by RSM-BBD					
13	Dr. M. Laxmi Deepak Bhatlu	Optimization of process parameters by RSM-BBD for the removal of titan yellow dye from aqueous solution by acid-treated Phyllanthus acidus leaves	Biomass Conversion and Biorefinery	Jun & 2023	SCI	IF: 4.1 Q3	https://doi.org/10.1007/s13399-023-04474-5
14	Dr. A. K. Priya	The conversion of biomass to fuels via cutting-edge technologies: Explorations from natural utilization systems	Fuel	33, 1, 125668, Jan & 2023	SCI	IF: 7.4 Q1	https://doi.org/10.1016/j.fuel.2022.125668
15	Dr. A. K. Priya	Biosorption of heavy metals by microorganisms: Evaluation of different underlying mechanisms	Chemosphere	307, 4, 135957, Nov & 2022	SCI	IF: 8.8 Q1	https://doi.org/10.1016/j.chemosphere.2022.135957

16	Dr. A. K. Priya	Metal-organic framework-enabled pesticides are an emerging tool for sustainable cleaner production and environmental hazard reduction	Journal of Cleaner Production	373, 4, 133966, Sep & 2022	SCI	IF: 11.1 Q1	http://dx.doi.org/10.1016/j.jclejcl.2022.133961
17	Dr. A. K. Priya	Algal degradation of microplastic from the environment: Mechanism, challenges, and future prospects	Algal Research	67, 102848, Sep & 2022	SCI	IF: 5.1 Q1	https://doi.org/10.1016/j.algal.2022.102848
18	Dr. A. K. Priya	Emerging waste-to-wealth applications of fly ash for environmental remediation: A review	Environmental Research	227, 115800, Jun & 2023	SCI	IF: 8.3 Q1	https://doi.org/10.1016/j.envres.2023.115800
19	Dr. A. K. Priya	Clean-Up of Heavy Metals from Contaminated Soil by Phytoremediation: A Multidisciplinary and Eco-Friendly Approach	Toxics	11, 5, 422, May & 2023	SCI	IF: 4.6 Q1	https://doi.org/10.3390/toxics11050422

20	Dr. A. K. Priya	Effect of Nitrogen, Salinity, and Light Intensity on the Biomass Composition of <i>Nephroselmis</i> sp.: Optimization of Lipids Accumulation (Including EPA)	Marine drugs	21, 6, 331, May & 2023	SCI	IF: 5.4 Q1	https://doi.org/10.3390/md21060331
21	Dr. M. Ramasamy	Modeling Strategies for Crude Oil-Induced Fouling in Heat Exchangers: A Review	Processes	1, 4, 1036, Mar & 2023	SCI	IF: 3.5 Q3	https://doi.org/10.3390/pr11041036
22	Dr. M. Ramasamy	Control of the Multi-Timescale Process Using Multiple Timescale Recurrent Neural Network-Based Model Predictive Control	Industrial & Engineering Chemistry Research	62, 15, Apr & 2023 Pg 6176-6195	SCI	IF:4.2 Q1	https://doi.org/10.1021/acs.iecr.2c04114

23	Dr. R Umapriya	Optimal Feature Selection and Classification Using Convolutional Neural Network-Based Plant Disease Prediction	2023 IEEE International Conference on Integrated Circuits and Communication Systems	Pg 1-6, Apr & 2023	Scopus	-	https://doi.org/10.1109/ICICACS57338.2023.10099630
24	Dr. A. K. Priya	A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review	Chemosphere	Volume 303, Part 2, September 2022, 135146	SCI	Q1 IF: 8.8	https://doi.org/10.1016/j.chemosphere.2022.135146
25	Dr. A. K. Priya	Recent trends and advancements in nanoporous membranes for water purification	Chemosphere	Volume 303, Part 3, September 2022, 135205	SCI	Q1 IF: 8.8	https://doi.org/10.1016/j.chemosphere.2022.135205

R & D Coordinator

HoD/CH