

LIST OF PUBLICATIONS
Academic Year 2022 - 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	Online Link of the paper
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 kinetics using Pseudomonas aeruginosa in both flask and an inverse fluidized bed reactor	Chemical Engineering Communications	210, 2, Pg 181-191, Feb & 2023	SCI	IF: 2.5 Q2	https://doi.org/10.1080/00986445.2021.2012462

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 AA7178/ZrSiO4 Nanocomposites	Advances in Materials Science and Engineering	2023, May & 2023	Scopus	Q2	https://doi.org/10.1155/2023/3085478
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 Optimization of Factors by RSM-BBD	Adsorption Science & Technology	Feb & 2023	SCI	IF: 2.9 Q2	https://doi.org/10.1155/2023/7369027
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.jclepro.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	Industrial & Engineering	62, 15, Apr & 2023 Pg 6176-6195	SCI	IF:4.2 Q1	https://doi.org/10.1021/acs.iecr.2c04114

		Timescale Recurrent Neural Network-Based Model Predictive Control	Chemistry Research				
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/ICICACS57.338.2023.100996 30
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

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