

LIST OF PUBLICATIONS

Academic Year 2023 - 2024

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 & Quartile	Online Link of the paper
1	Dr. S. Balasubramanian	Solvent extraction of acetic acid from aqueous solutions: A review	Separation Science and Technology	58, 11, 1985-2007, July 2023	SCI	IF:2.8 Q2	https://doi.org/10.1080/01496395.2023.2225734
2	Dr A K Priya	Bio-based agricultural products: a sustainable alternative to agrochemicals for promoting circular economy	RSC Sustainability	1, 746-762, July 2023	SCI	Not yet assigned Quartile	https://doi.org/10.1039/D3SU00075C
3	Dr. R. Uma Priya	Bio-Inspired Optimization Technique for Feature Selection to Enhance Accuracy of BC Detection	IEEE International Conference on Integrated Circuits and Communicatio	July 2023	Scopus	-	https://ieeexplore.ieee.org/document/10134478

			n Systems (ICICACS)				
4	Mr. J. Rohan	Design of COVID19 Detection for Risk Identification using Deep Learning Approach	IEEE International Conference on Integrated Circuits and Communicatio n Systems (ICICACS)	July 2023	Scopus	-	https://ieeexplore.ieee.org/document/10150731
5	Dr A K Priya	Artificial intelligence enabled carbon capture: A review	Science of The Total Environment	886, 163913, August 2023	SCI	IF: 9.8 Q1	https://doi.org/10.1016/j.scitotenv.2023.163913
6	Dr. S. Balasubramanian	Microfluidic paper-based device coupled with 3D printed imaging box for colorimetric detection in resource-limited settings	HardwareX	15, e00456, September 2023	SCI	IF: 2.2 Q2	https://www.sciencedirect.com/science/article/pii/S2468067223000639

7	Dr. Nitu Kumari	Green synthesis and characterization of Zinc and Copper oxides nanocomposite using Phyllanthus emblica extracts and its antibacterial and antioxidant properties	Materials Today: Proceedings	July 2023	Scopus	Q2	https://www.sciencedirect.com/science/article/abs/pii/S2214785323036829
8	Dr. A. K. Priya	Biomass and waste derived silica, activated carbon and ammonia-based materials for energy-related applications – A review	Fuel	355, 129490, August 2023	SCI	IF: 7.4 Q1	https://www.sciencedirect.com/science/article/pii/S001623612302104X
9	Dr. A. K. Priya	Biosorption of heavy metal ions using Green Algae (Sargassum Wightii) – Equilibrium, Kinetics and Thermodynamic Studies	Iranian Journal of Chemistry and Chemical Engineering	July 2023	SCI	IF: 1.90 Q3	https://www.ijcce.ac.ir/article_704964.html
10	Dr. A. K. Priya	A study on managing plastic waste to tackle the worldwide plastic contamination and environmental remediation	Chemosphere	341, 139979, August 2023	SCI	IF: 8.8 Q1	https://www.sciencedirect.com/science/article/pii/S0045653523022488?dgcid=coauthor

11	Dr. M. Laxmi Deepak Bhatlu	Effect of Diethyl Ether on the Performance and Emission Characteristics of a Diesel Engine Fueled with a Light Fraction of Waste Cooking Oil	Processes	11, 9, 2613, September 2023	SCI	IF: 3.5 Q2	https://www.mdpi.com/2227-9717/11/9/2613
12	Dr. A. K. Priya	Toward a circular economy: Investigating the effectiveness of different plastic waste management strategies: A comprehensive review	Journal of Environmental Chemical Engineering	11, 5, 110993, October 2023	SCI	IF: 7.7 Q1	https://www.sciencedirect.com/science/article/pii/S2213343723017323?dgcid=coauthor
13	Dr. A. K. Priya	Exploring Modified Rice Straw Biochar as a Sustainable Solution for Simultaneous Cr (VI) and Pb (II) Removal from Wastewater: Characterization, Mechanism Insights, and Application Feasibility	ACS Omega	8, 41, 68130-68147, September, 2023	SCI	IF: 4.1 Q1	https://pubs.acs.org/doi/full/10.1021/acsomega.3c04271
14	Dr. S. Balasubramanian	Soret-Dufour mass transfer effects on radiative chemically dissipative MHD plain convective water nanofluid (Al ₂ O ₃ , Cu,	Numerical Heat Transfer, Part A: Applications	1-19, August 2023	SCI	IF: 2.0 Q2	https://www.tandfonline.com/doi/abs/10.1080/10407782.2023.2261624

		a temperature-controlled upright cone surface with heat blow/suction					
15	Dr. S. Karunakaran	Evaluation of Antioxidant and Oxidative Stress Activity of Carthamus tinctorius L. Extract in Lung Cancer A549 Cells	Indian Journal of Pharmaceutical Education and Research	57, 4, 1112-1118, September 2023	SCI	IF: 0.8 Q3	https://www.ijper.org/article/2113
16	Dr. A. K. Priya	Impact of air pollutants on climate change and prediction of air quality index using machine learning models	Environmental Research	239, 1, 117354, 15 December 2023	SCI	IF: 8.3 Q1	https://www.sciencedirect.com/science/article/pii/S0013935123021588?dgcid=coauthor
17	Dr. A. K. Priya	Impact of climate change and anthropogenic activities on aquatic ecosystem - A review	Environmental Research	238, 2, 117233, December 2023	SCI	IF: 8.3 Q1	https://www.sciencedirect.com/science/article/abs/pii/S0013935123020376
18	Dr. A. K. Priya	Mustard (Brassica Nigra) Cake Powder Biochar/Nafion Composite as ORR Catalyst in Single Chambered Air Cathode MFC	Iranian Journal of Chemistry and Chemical Engineering	October 2023	SCI	IF:1.90 Q3	https://doi.org/10.30492/ijcce.2023.561533.5618

19	Dr. A. K. Priya	Conversion of seaweed waste to biochar for the removal of heavy metal ions from aqueous solution: A sustainable method to address eutrophication problem in water bodies	Environmental Research	241, 117551, November 2023	SCI	IF: 8.3 Q1	https://doi.org/10.1016/j.envres.2023.117551
20	Dr. S. Karunakaran	Anti-bacterial and in silico analysis of biogenic fabrication of CuO nanoparticles employing Coleus amboinicus leaf extract	Biomass Conversion and Biorefinery	November 2023	SCI	IF: 4.0 Q3	https://doi.org/10.1007/s13399-023-05009-8
21	Dr. A. K. Priya	Nanomaterials and biochar mediated remediation of emerging contaminants	Science of The Total Environment	March 2024	SCI	IF: 9.8 Q1	https://www.sciencedirect.com/science/article/abs/pii/S0048969724001980
22	Dr. A. K. Priya	Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	Advanced Energy and Sustainability Research	February 2024	SCI	Not yet assigned Quartile	https://onlinelibrary.wiley.com/doi/full/10.1002/aesr.202400011

23	Dr. A. K. Priya	Pineapple Stalk-Based Synthesized Activated Carbon for Effective Adsorption of Hexavalent Chromium in Aqueous Solutions	Materials Science Forum	December 2023	Scopus	-	https://doi.org/10.4028/p-7ZGapY
24	Dr. A. K. Priya	Recent advances in microbial-assisted degradation and remediation of xenobiotic contaminants; challenges and future prospects	Journal of Water Process Engineering	April 2024	SCI	IF: 7 Q1	https://www.sciencedirect.com/science/article/abs/pii/S2214714424003386
25	Dr. A. K. Priya	Biosolids management and utilizations: A review	Journal of Cleaner Production	Volume 451, 20 April 2024, 141974	SCI	IF: 11.1 Q1	https://www.sciencedirect.com/science/article/abs/pii/S0959652624014227?via%3Dihub
26	Dr. S. Balasubramanian	Paper-based lab-on-a-chip devices for detection of agri-food contamination	Trends in Food Science & Technology	Volume 147, May 2024, 104476	SCI	IF: 15.3 Q1	https://www.sciencedirect.com/science/article/abs/pii/S0924224424001523?dgcid=rss_sd_all


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