

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 (by clicking this link, paper should be opened in online) |
|------|------------------------|--|--|--|----------------------|---------------------------|---|
| 1 | 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 |
| 2 | 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 |
| 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 Communicati | July 2023 | Scopus | - | https://ieeexplore.ieee.org/document/10134478 |

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| | | | on Systems (ICICACS) | | | | |
| 4 | Mr. J. Rohan | Design of COVID19 Detection for Risk Identification using Deep Learning Approach | IEEE International Conference on Integrated Circuits and Communicati on 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 |

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| 7 | Dr. Nitu Kumari | Green synthesis and characterization of Zinc and Copper oxides nanocomposite using <i>Phyllanthus emblica</i> extracts and its antibacterial and antioxidant properties | Materials Today: Proceedings | July 2023 | Scopus | Q2 | https://www.sciencedirect.com/science/article/abs/pii/S214785323036829 |
| 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 (<i>Sargassum Wightii</i>) – 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 |

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| 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 | 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 |

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| | | nanofluid (Al ₂ O ₃ , Cu, Ag, & TiO ₂) flow across 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 |

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| 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 |

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| 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/S214714424003386 |

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| 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 |

R & D Coordinator

HoD/CH