

**DEPARTMENT OF CHEMICAL ENGINEERING
COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
PAPER PUBLICATIONS: 2021 – 2022**

S. No.	Name of all Authors	Title of the Paper	Name of the Journal	Month and Year of Publication	Impact Factor	SCI	Quartile	DOI
1	Adithya Sridhar, Ashish Kapoor*, P. Senthil Kumar, P. Muthamilselvi, S. Balasubramanian, S. Prabhakar	Conversion of food waste to energy: A focus on sustainability and life cycle assessment	Fuel	04 July 2021	6.609	Yes	Q1	https://doi.org/10.1016/j.fuel.2021.121069
2	Adithya Sridhar, K. Deepa, Ashish Kapoor*, S. Prabhakar	Extraction and detection methods of microplastics in food and marine systems: A critical review	Chemosphere	23 July 2021	7.086	Yes	Q1	https://doi.org/10.1016/j.chemosphere.2021.131653
3	K. Suresh*, Ashish Kapoor, D. Venkatesan, K. Sofiya, S. Balasubramanian	Process design scheme on the feasibility of 1-decanol as a solvent in liquid-liquid extraction to recover anhydrous citric acid from water	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/1979/1/012007
4	D. Nanditha*, M.P. Kavin Kalyaan, Ashish Kapoor, S. Prabhakar	Influence of N-Butanol Composition on Membrane Performance in Coagulation Bath for Membrane Distillation	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/2007/1/012043
5	G. Sudha, V. Ganesh *	Enzymatic Degradation of Polycarbonates: Response Surface Methodology (RSM) based approach	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/1979/1/012006

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6	Praneeti Mitra, Utkarsh Sharma, M. Magesh Kumar, S. Sam David*	Hydrodynamics and mixing characteristics of packed bed biofilm reactor with varying voidage	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/1979/1/012008
7	Meghna Datta, Muzammil H Ansari, Subhrajyoti Bandyopadhyay, K. Selvam,S. Sam David*	Maximization of Cr Removal in Continuous Counter-current Liquid-Solid Fluidized Bed: A Machine Learning Approach	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/1979/1/012009
8	S.M. Sambavi, S. Vishali, M. Asthika, M. Sairaaman, P. Mullai	Bioconversion of Food Waste with Cosubstrate to Electricity using Microbial Fuel Cell	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/1979/1/012011
9	P. Rajasulochana, S. FahiraTasneem, Ashish Kapoor, M. K. Chandan	A Glimpse on Possible Detection Tools and Vaccines for Mitigation and Management of COVID-19	Journal of Physics: Conference Series	01 August 2021			Q4	https://doi.org/10.1088/1742-6596/1979/1/012012
10	S. Vishali*, J. Sandhiya, Divya, K. Aarthi, Abhilash	Performance evaluation of coconut shell originated activated carbon as an adsorbent on the paint factory effluent treatment	Journal of Physics: Conference Series	01 August 2021			Q4	https://iopscience.iop.org/article/10.1088/1742-6596/2007/1/012067
11	K. Bogeshwaran, K. Sathish Kumar, B. Karunanithi, M. Srividhya, Shreya Suresh, Vinatha Viswanathan, Malarvizhi Angamuthu	Characteristic study of exfoliated graphene particles from waste batteries	Brazilian Journal of Chemical Engineering	09 August 2021	1.232	Yes	Q3	https://doi.org/10.1007/s43153-021-00138-x

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12	K. Bogeshwaran, K. Sathish Kumar, B. Karunanithi , M. Srividhya, G. Gowri	Adsorption of Brilliant Blue and Malachite Green by Nano-graphene Exfoliated from Waste Batteries	Chemical Engineering and Technology	12 August 2021	1.728	Yes	Q2	https://doi.org/10.1002/ceat.202100213
13	Pamula Sri Sruthi , S. Balasubramanian, P. Senthil Kumar, Ashish Kapoor* , P. Muthamilselvi, Meenu Mariam Jacob , S. Prabhakar	Eco-friendly pH detecting paper-based analytical device: Towards process intensification	Analytica Chimica Acta	16 August 2021	6.558	Yes	Q1	https://doi.org/10.1016/j.aca.2021.338953
14	Amina Othmani, S. Magdouli, P. Senthil Kumar, Ashish Kapoor , P. V. Chellam, O. Gokkus	Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review	Environmental Research	21 August 2021	6.498	Yes	Q1	https://doi.org/10.1016/j.envres.2021.111916
15	Jadhav Pankaj Nagnath , Delphy Davis , P. Ovia , S. Sam David , K. Deepa*	Boltzmann equation for the modelling of formation of silver nanoparticles using trisodium citrate as the reducing agent	Bulletin of Materials Science	08 September 2021	1.783	Yes	Q3	https://doi.org/10.1007/s12034-021-02542-y
16	K. Selva Ganesh , Adithya Sridhar , S. Vishali *	Utilization of fruit and vegetable waste to produce value-added products: Conventional utilization and emerging opportunities-A review	Chemosphere	09 September 2021	7.086	Yes	Q1	https://doi.org/10.1016/j.chemosphere.2021.132221

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17	S. Kiruthika, S. Sam David, R. Jeyalakshmi, M. P. Rajesh	Investigation of hydrodynamics of inverse fluidized bed reactor (IFBR) for struvite (NH ₄ MgPO ₄ . 6H ₂ O) recovery from urban wastewater	Chemical Papers	15 September 2021	2.097	Yes	Q2	https://doi.org/10.1007/s11696-021-01863-w
18	K. Selvam, K. Suresh*, B. Karunanithi	Assessment of the flow behavior of power-law fluids in spinnerets	Chemical Engineering Research and Design	30 September 2021	3.739	Yes	Q2	https://doi.org/10.1016/j.cherd.2021.09.029
19	Adithya Sridhar, P. Muthamilselvi, Ashish Kapoor*, S. Prabhakar	Valorization of food waste as adsorbents for toxic dye removal from contaminated waters: A review	Journal of Hazardous Materials	07 October 2021	10.558	Yes	Q1	https://doi.org/10.1016/j.jhazmat.2021.127432
20	C. Murugan, R. Sharmiladevi, K. Guruprasad, M. Rajesh Kumar, S. Yuvaraj, S. Anandhakumar*	COVID-19: A review of newly formed viral clades, pathophysiology, therapeutic strategies and current vaccination tasks	International Journal of Biological Macromolecules	25 October 2021	6.953	Yes	Q1	https://doi.org/10.1016/J.IJBIOMAC.2021.10.144
21	E. Kavitha, E. Poonguzhali, D. Nanditha, Ashish Kapoor*, G. Arthanareeswaran, S. Prabhakar	Current status and future prospects of membrane separation processes for value recovery from wastewater	Chemosphere	26 October 2021	7.086	Yes	Q1	https://doi.org/10.1016/j.chemosphere.2021.132690

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22	Adithya Sridhar, P. Muthamilselvi , P. Senthil Kumar, Ashish Kapoor* , L Xiao	Progress in the production of hydrogen energy from food waste: A bibliometric analysis	International Journal of Hydrogen Energy	26 October 2021	5.816	Yes	Q1	https://doi.org/10.1016/j.ijhydne.2021.09.258
23	Punitha Shanmugam, Kishore Pushparaj, S. Anandhakumar* , S. Yuvaraj	Investigation of UV light enhanced gas adsorption properties of CeO ₂ Nanoparticles by Scanning Kelvin Probe system	Journal of Molecular Structure	01 November 2021	3.196	Yes	Q2	https://doi.org/10.1016/j.molstruc.2021.131831
24	K. Anbalagan , M. Magesh Kumar , J. S. Sudarsan, S. Nithiyanantham	Removal of heavy metal ions from industrial wastewater using magnetic nanoparticles	Journal of Engineering Research	02 November 2021	0.658	Yes	Q4	https://doi.org/10.36909/jer.6924
25	Varsha Sharma, S. Anandhakumar*	Surface modification of bare copper grids with charged polymers: A simple alternative for carbon coated copper grids in transmission electron microscopy	Materials Letters	05 November 2021	3.423	Yes	Q1	https://doi.org/10.1016/j.matlet.2021.131204
26	Adithya Sridhar, Ashish Kapoor* , P. Senthil Kumar, P. Muthamilselvi , S. Balasubramanian, Dai-Viet Nguyen Vo	Lab-on-a-chip technologies for food safety, processing, and packaging applications: a review	Environmental Chemistry Letters	14 November 2021	9.027	Yes	Q1	https://doi.org/10.1007/s10311-021-01342-4

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27	Paromita Chakraborty* , P. G. Vinod, J. H. Syed, B. Pokhrel, G. K. Bharat, A. R. Basu, T. Fouzder, M. Pasupuleti, M. Urbaniak, V. P. Beskoski	Water-sanitation-health nexus in the Indus-Ganga-Brahmaputra River Basin: need for wastewater surveillance of SARS-CoV-2 for preparedness during the future waves of pandemic	Ecohydrology & Hydrobiology	15 November 2021	3.215	Yes	Q1	https://doi.org/10.1016/j.ecohyd.2021.11.001
28	Susmita Ekka, Sanjat Kumar Sahu, Sanjeev Dwivedi, Sanjenbam Nirmala Khuman , Shirsendu Das, Omkar Gaonkar, Paromita Chakraborty*	Seasonality, atmospheric transport and inhalation risk assessment of polycyclic aromatic hydrocarbons in PM _{2.5} and PM ₁₀ from industrial belts of Odisha, India	Environmental Geochemistry and Health	22 November 2021	4.609	Yes	Q1	https://doi.org/10.1007/s10653-021-01128-1
29	Christy Lite, Glancis Luzeena Rajab, Melita Juliet, Vasisht Varsh Sridhar, K. Divya Subhashree, Praveen Kumar, Paromita Chakraborty , Jesu Arockiaraj	In utero exposure to endocrine-disrupting chemicals, maternal factors and alterations in the epigenetic landscape underlying later-life health effects	Environmental Toxicology and Pharmacology	27 November 2021	4.86	Yes	Q1	https://doi.org/10.1016/j.etap.2021.103779
30	Punitha Shanmugam, Guru Prasad Kuppaswamy, Kishore Pushparaj, Balamurugan Arumugam S. Anandhakumar* , S. Yuvaraj	CeO ₂ nanoparticles based extended gate field effect transistor for enzyme free detection of glucose	Journal of Materials Science: Materials in Electronics	01 December 2021	2.5	Yes	Q2	https://doi.org/10.1007/s10854-021-07441-w

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31	Natsuko Kajiwara, Hidenori Matsukami, Govindan Malarvannan, Paromita Chakraborty , Adrian Covaci, Hidetaka Takigami	Recycling plastics containing decabromodiphenyl ether into new consumer products including children's toys purchased in Japan and seventeen other countries	Chemosphere	04 December 2021	7.086	Yes	Q1	https://doi.org/10.1016/j.chemosphere.2021.133179
32	Paromita Chakraborty* , G. K. Bharat, O. Gaonkar, Moitraiye Mukhopadhyay , Sarath Chandra , H. Steindal, L. Nizzetto	Endocrine-disrupting chemicals used as common plastic additives: Levels, profiles, and human dietary exposure from the Indian food basket	Science of the Total Environment	07 December 2021	7.963	Yes	Q1	https://doi.org/10.1016/j.scitotenv.2021.152200
33	M. Venkatesh Prabhu, S. Balasubramanian, Ashish Kapoor , Ketki Joshi, Keya Joshi, Nasrin Shariffa	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	09 December 2021	2.494	Yes	Q2	https://doi.org/10.1080/00986445.2021.2012462
34	K. Sofiya* , G. Bharath Kumar	Study on the effect of dual solvent proportions on the composition of <i>Rosa x damascena</i> concrete oil obtained using Soxhlet extraction method	Asian Journal of Chemistry	16 December 2021			Q4	https://doi.org/10.14233/ajchem.2022.23451
35	K. Bogeshwaran, K. Sathish Kumar, B. Karunanithi , M. Srividhya, G. Gowri	Exfoliation of Nanographene from Waste Batteries and its Application in Methylene Blue Dye Removal	Journal of the Chilean Chemical Society	29 December 2021	1.034	Yes	Q3	http://dx.doi.org/10.4067/s07197072021000405358

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36	S. Sam David, T. Renganathan, K. Krishnaiah	Hydrodynamics of co-current downward liquid-liquid system with packing	Korean Journal of Chemical Engineering	06 January 2022	3.309	Yes	Q2	https://doi.org/10.1007/s11814-021-0950-x
37	P. Rajasulochana, G. Yaswanth, P. Senthil Kumar, S. Mahalaxmi, Fahira Tasneem, P. Muthamilselvi, Ashish Kapoor*	Paper-based microfluidic colorimetric sensor on a 3D printed support for quantitative detection of nitrite in aquatic environments	Environment al Research	17 January 2022	6.498	Yes	Q1	https://doi.org/10.1016/j.envres.2022.112745
38	Hashmi, M. Z., Kalim, M., Farooq, U., Xiaomei Su, Paromita Chakraborty, Shams Ur Rehman	Chemical remediation and advanced oxidation process of polychlorinated biphenyls in contaminated soils: a review	Environment al Science and Pollution Research	21 January 2022	4.223	Yes	Q1	https://doi.org/10.1007/s11356-022-18668-3
39	R. Thilakavathi, K. Suresh*	Influence of viscosity on the thermal behavior of fluids in a sealed can	Alexandria Engineering Journal	26 January 2022	3.732	Yes	Q1	https://doi.org/10.1016/j.aej.2022.01.038
40	Paromita Chakraborty*, Sarath Chandra, M.V. Dimmen, R. Hurley, S. Mohanty, G.K. Bharat, E.H. Steindal, M. Olsen, L. Nizzetto	Interlinkage Between Persistent Organic Pollutants and Plastic in the Waste Management System of India: An Overview	Bulletin of Environment al Contaminati on and Toxicology	18 February 2022	2.151	Yes	Q2	https://doi.org/10.1007/s00128-022-03466-x
41	Chandran Murugan, Vignesh Sundararajan, Sahabudeen Sheik Mohideen, S. Anandhakumar*	Controlled decoration of nanoceria on the surface of MoS2 nanoflowers to improve the biodegradability and biocompatibility in drosophila melanogaster model	Nanotechnol ogy	21 February 2022	3.874	Yes	Q1	https://doi.org/10.1088/1361-6528/ac4fe4

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42	P. Mullai, S. Vishali*, E. Sobiya	Studies on the application of algae biomass as an adsorbent in the treatment of Industrial Azadirachtin insecticide wastewater	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2021.27888
43	G. Keerthiga*, Akash Balakrishnan, S. Kiruthika	Response surface methodology based optimization of photocatalytic degradation of 2,4-dichlorophenoxyacetic acid	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28114
44	E. Kavitha*, S. Prabhakar	Review and assessment on the separation of cesium and strontium from the aqueous stream	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28113
45	S. Vishali*, S. Picasso, M. Rajdeep, B. Debom	Evaluation of the performance of an agricultural residue Cyamopsis tetragonolobus (guar gum) in toxic paint industry, effluent treatment using continuous fixed-bed adsorption column	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28167
46	Manjula Rajagopal, P. Muthamilselvi*, Ashish Kapoor	Water management for irrigation scheduling by computing evapotranspiration using ANFIS modelling	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28290
47	P. Muthamilselvi*, V. Saravanan, P. Balamurugan, R. Rajeshkannan, M. Dilipkumar	Removal of chlorophenol using a batch and airlift inner loop bioreactor using Aspergillus fumigatus	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28288

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48	D. Harishwar, S. N. Amresh, S. Prabhakar, V. Murugan, M. Magesh Kumar*	Performance analysis of operating multi-stage flash distillation unit coupled with nuclear power plant	Desalination and water treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28295
49	Mohamed Nayeem Nazeer Hussain, P. Letchoumanane, S. Prabhakar, S. Kiruthika*	Effective recovery of struvite from wastewater by electrochemical process	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28328
50	Moitraiye Mukhopadhyay, Mohammed Jalal, G. Vignesh, Muhammed Ziauddin, S. Sampath, G.K. Bharat, L. Nizzetto, Paromita Chakraborty*	Migration of Plasticizers from Polyethylene Terephthalate and Low-Density Polyethylene Casing into Bottled Water: A Case Study From India	Bulletin of Environmental Contamination and Toxicology	01 March 2022	2.151	Yes	Q2	https://doi.org/10.1007/s00128-022-03474-x
51	E. Poonguzhali*, Fathima Aadilah Mohamed Ali, Ashish Kapoor*, S. Prabhakar	Performance of membrane assisted solvent extraction with homologous solvents for the removal and recovery of phenol	Desalination and Water Treatment	01 March 2022	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2022.28117
52	G. Keerthiga*, Adithya Sridhar	Batch extraction kinetics and total phenolic content estimation of Syzygium Cumini.L bark	Indian Chemical Engineer	06 March 2022			Q3	https://doi.org/10.1080/00194506.2022.2046512

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53	Adithya Sridhar, Akash Balakrishnan, Meenu Mariam Jacob, Mika Sillanpaa, D. Nanditha*	Global impact of covid-19 on agriculture: role of sustainable agriculture and digital farming	Environment al Science and Pollution Research	08 March 2022	4.223	Yes	Q1	https://doi.org/10.1007/s11356-022-19358-w
54	R. Jeyalakshmi, S. Vishali, Gadah Albasher, Ohoud Alamri, Nouf Alsultan, S. Kiruthika *	Process optimization of struvite recovered from slaughterhouse wastewater and its fertilizing efficacy in amendment of biofertilizer	Environment al Research	11 March 2022	6.498	Yes	Q1	https://doi.org/10.1016/j.envres.2022.113011
55	M. Magesh Kumar *, Hawale Pawan Narayan	Synergetic effects of mixing parameters, settling characteristics and process kinetics on coagulation treatment of tannery industry wastewater	Chemical Papers	25 March 2022	2.097	Yes	Q2	https://doi.org/10.1007/s11696-022-02156-6
56	A. Gayathri, S. Kiruthika, V. Selvarani, M. S. AlSalhi, S. Devanesan, W. Kim, B. Muthukumaran	Evaluation of iron-based alloy nanocatalysts for the electrooxidation of ethylene glycol membraneless fuel cells	Fuel	05 April 2022	6.609	Yes	Q1	https://doi.org/10.1016/j.fuel.2022.124059
57	S. Vishali*, P. Mullai, S. Mahboob, K. Al Ghanim, A. Sivasankar	Elucidation the influence of design variables on coagulation–flocculation mechanisms in the lab-scale bio-coagulation on toxic industrial effluent treatment	Environment al Research	08 April 2022	6.498	Yes	Q1	https://doi.org/10.1016/j.envres.2022.113224

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58	I. Becky Miriyam, K. Anbalagan*, M. Magesh Kumar	Phthalates removal from wastewater by different methods – a review	Water Science & Technology	21 April 2022	1.915	Yes	Q2	https://doi.org/10.2166/wst.2022.133
59	S. Nehru, S. Ramamoorthy, C. Murugan, S. Anandhakumar*	Synthesis of Cu ₂ O microcubes for facet selective reduction of 4-nitrophenol	Ceramics International	22 April 2022	4.527	Yes	Q1	https://doi.org/10.1016/j.ceramint.2022.04.207
60	Bharat Bhargawa, Varsha Sharma, M R Ganesh, Francesca Cavalieri, Muthupandian Ashokkumar, B. Neppolian, S. Anandhakumar*	Lysozyme microspheres incorporated with anisotropic gold nanorods for ultrasound activated drug delivery	Ultrasonics Sonochemistry	27 April 2022	7.491	Yes	Q1	https://doi.org/10.1016/j.ultsonch.2022.106016
61	P. Mullai, S. Vishali, P. Kobika, K. S. Dhivya, A. Mukund, M. Sriraaman	Biochar Production and Its Basket Full Of Benefits – A Review	ECS Transactions	01 May 2022			Q4	https://doi.org/10.1149/10701.18747ecst
62	D. Krisha, M. Chamundeeswari, K. Tamilarasan*	Hybrid Composite Photocatalysts Membrane System For Industrial Water Treatment And Renewable Energy Applications	ECS Transactions	01 May 2022			Q4	https://doi.org/10.1149/10701.19069ecst
63	Punitha Shanmugam, Guru Prasad Kuppaswamy, David Chidambaram, Ramji Kalidoss, S. Anandhakumar*, Yuvaraj Sivalingam	Influence of gas adsorption on the surface photovoltage of Au nanorods embedded polymer coated ZnO nanorods under visible light irradiation	Ceramics International	13 May 2022	4.527	Yes	Q1	https://doi.org/10.1016/j.ceramint.2022.05.091

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64	P. Mullai, S. Vishali, E. Sobiya	Experiments and adaptive-network-based fuzzy inference system modelling in a hybrid up-flow anaerobic sludge blanket reactor to assess industrial azadirachtin effluent quality	Bioresource Technology	27 May 2022	9.642	Yes	Q1	https://doi.org/10.1016/j.biortech.2022.127395
65	Adithya Sridhar, Vijay Vaishampayan, P. Senthil Kumar, P. Muthamilselvi, Ashish Kapoor*	Extraction techniques in food industry: Insights into process parameters and their optimization	Food and Chemical Toxicology	07 June 2022	6.023	Yes	Q1	https://doi.org/10.1016/j.fct.2022.113207
66	K. Ronnie Rex, Paromita Chakraborty*	Legacy and new chlorinated persistent organic pollutants in the rivers of south India: Occurrences, sources, variations before and after the outbreak of the COVID-19 pandemic	Journal of Hazardous Materials	25 June 2022	14.224	Yes	Q1	https://doi.org/10.1016/j.jhazmat.2022.129262

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