

**DEPARTMENT OF CHEMICAL ENGINEERING
COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
PAPER PUBLICATIONS: 2020 – 2021**

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	S. Vishali*, S. Sakthivel, R. Karthick, V. S. Gowsigan	A sustainable approach for the treatment of industrial effluent using a green coagulant Cassia fistula vs. chemical coagulant	Desalination and Water Treatment	01 August 2020	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2020.26031
2	S. M. Sambavi, S. Vishali, S. Varjani, P. Mullai	Electricity generation in a microbial fuel cell using iron oxide nanoparticles	Indian Journal of Experimental Biology	01 August 2020	0.783	Yes	Q1	http://op.niscair.res.in/index.php/IJEB/article/view/39416
3	Meenu Mariam Jacob, P. Muthamilselvi*, Ashish Kapoor, S. Prabhakar	Bagasse based biochar for the adsorptive removal of chlorpyrifos from contaminated water	Journal of Environmental Chemical Engineering	04 August 2020	5.84	Yes	Q1	https://doi.org/10.1016/j.jece.2020.103904
4	V. Selvarani, S. Kiruthika, V. Sudha, A. Gayathri, B. Muthukumaran	Enhancement Effect of Fe-Co-Ni/BC Nanoparticles for Membraneless Fuel Cells	Asian Journal of Chemistry	20 August 2020			Q4	http://doi.org/10.14233/ajchem.2020.22728
5	S. Vishali*, Rajdeep Mukherjee, Picasso Sengupta, Nihal Rao	Evaluation of promising coagulant shrimp shell on paint factory effluent: studies on mixing pattern, isotherms, kinetics, and thickener design	Desalination and Water Treatment	01 October 2020	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2020.26103

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6	R. Rajkumar, Rohan Karthik R., S. Sarves, S. Sam David*	Hydrodynamics and phenol adsorption studies in continuous counter current liquid-solid settling column	Process Safety and Environmental Protection	01 October 2020	6.158	Yes	Q1	https://doi.org/10.1016/j.psep.2020.06.027
7	A. Varun, Eashwar M. P., Kandheish A., M. P. Rajesh, K. Tamilarasan*	Sequential fractionation and characterization of lignin and cellulose fiber from waste rice bran	Journal of Environmental Chemical Engineering	05 October 2020	5.84	Yes	Q1	https://doi.org/10.1016/j.jece.2020.104124
8	Akash Balakrishnan, A. Sowmya, G. Keerthiga*	Immobilized TiO ₂ /chitosan beads for photocatalytic degradation of 2,4-dichlorophenoxyacetic acid	International Journal of Biological Macromolecules	15 October 2020	6.953	Yes	Q1	https://doi.org/10.1016/j.ijbiomac.2020.05.204
9	M. Saranya Devi, S. Abinaya, T. Maiyalagan, G. Keerthiga*	Nanorods of α -Bi ₂ O ₃ for photocatalytic degradation of methylene blue	materials today: Proceedings	22 October 2020			Q2	https://doi.org/10.1016/j.matpr.2020.08.813

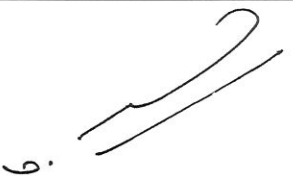
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10	S. Balasubramanian*, K. Suresh*, M. Magesh Kumar, B. Krishna Srihari, Arkaduti Chakraborty, K. Arunchaleshwar, P. Sambath, Ashish Kapoor	Three dimensional computational studies on steady-state flow field around a microsphere under laminar flow	AIP Conference Proceedings	06 November 2020			Q4	https://doi.org/10.1063/5.0025555
11	Adithya Sridhar, P. Muthamilselvi, P. Senthil Kumar, Ashish Kapoor*	Food preservation techniques and nanotechnology for increased shelf life of fruits, vegetables, beverages and spices: a review	Environmental Chemistry Letters	09 November 2020	9.027	Yes	Q1	https://doi.org/10.1007/s10311-020-01126-2
12	S. Kiruthika, R. Jeyalakshmi, M. P. Rajesh	Struvite recovery from human urine in inverse fluidized bed reactor and evaluation of its fertilizing potential on the growth of Arachis hypogaea	Journal of Environmental Chemical Engineering	24 December 2020	5.84	Yes	Q1	https://doi.org/10.1016/j.jece.2020.104965
13	D. Nanditha, Ashish Kapoor*, S. Prabhakar	Studies on membrane distillation towards mitigating thermal pollution	Chemical Papers	02 February 2021	2.146	Yes	Q2	https://doi.org/10.1007/s11696-021-01525-x

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14	P. Muthamilselvi, Ashish Kapoor*, P. Senthil Kumar, Dai-Viet N. Vo, Akash Balakrishnan, Meenu Mariam Jacob, S. Prabhakar	Sustainable adsorbents for the removal of pesticides from water: a review	Environmental Chemistry Letters	21 February 2021	9.027	Yes	Q1	https://doi.org/10.1007/s10311-021-01183-1
15	A. Varun, S. Samsnavith, J. Suryarajan, S. Sam David*	Effect of contacting pattern and various surfactants on phenol extraction efficiency using emulsion liquid membrane	International Journal of Chemical Reactor Engineering	25 February 2021	1.628	Yes	Q3	https://doi.org/10.1515/ijcre-2020-0156
16	Akash Balakrishnan, G. Keerthiga*, A. Sowmya	Photocatalytic degradation of 2,4-dichlorophenoxyacetic acid by TiO ₂ modified catalyst: kinetics and operating cost analysis	Environmental Science and Pollution Research	27 February 2021	3.056	Yes	Q1	https://doi.org/10.1007/s11356-021-12928-4
17	M. Magesh Kumar*, A. Sakthi Saravanan	Establishing the process kinetics and appraising model predictive behavior for coagulation treatment of tannery industry wastewater	Chemical Engineering Communications	01 March 2021	2.494	Yes	Q2	https://doi.org/10.1080/00986445.2021.1892654

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18	K. Boopathiraja, A. Vignesh, S. Sathish, G. Keerthiga, S. Sam David*	A Comparative study on the efficiency of various cathodes in reducing hexavalent chromium at low voltage	Environmental Quality Management	03 March 2021			Q3	https://doi.org/10.1002/tqem.21731
19	S. Balasubramanian, Aditya Udayabhanu, P. Senthil Kumar, P. Muthamilselvi, C. Eswari, Aalekhya Vasantavada, Shreyas Kanetkar, Ashish Kapoor*	Digital colorimetric analysis for estimation of iron in water with smartphone-assisted microfluidic paper-based analytical devices	International Journal of Environmental Analytical Chemistry	05 March 2021	2.826	Yes	Q3	https://doi.org/10.1080/03067319.2021.1893711
20	M. Magesh Kumar*, K. Anbalagan, Narendranath Jonna	Particle size distribution modeling and kinetic study for coagulation treatment of tannery industry wastewater at response surface optimized condition	Journal of Cleaner Production	13 March 2021	9.297	Yes	Q1	https://doi.org/10.1016/j.jclepro.2021.126657

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21	Adithya Sridhar, P. Muthamilselvi, P Senthil Kumar, Ashish Kapoor* , Dai-Viet N. Vo, S. Prabhakar	Techniques and modeling of polyphenol extraction from food: a review	Environmental Chemistry Letters	17 March 2021	9.027	Yes	Q1	https://doi.org/10.1007/s10311-021-01217-8
22	V. Selvarani, S. Kiruthika, A. Gayathri, L. Pournan, V. Sudha, B. Muthukumaran	Enhanced electrochemical performance of Pt- Sn- In/C nano particles for membraneless fuel cells	Chemical Papers	22 March 2021	2.146	Yes	Q2	https://doi.org/10.1007/s11696-021-01598-8
23	G. Keerthiga*, Raghuram Chetty	Electrochemical Reduction of CO ₂ on Flame Annealed Cu	Chemistry Select	22 March 2021	2.109	Yes	Q2	https://doi.org/10.1002/slct.202100235
24	Oinam Robita Chanu, Ashish Kapoor, Varshini Karthik	Digital image analysis for microfluidic paper based pH sensor platform	materials today: Proceedings	22 March 2021			Q2	https://doi.org/10.1016/j.matpr.2020.03.503
25	E. Kavitha*, Mukund Dalmia, Alexander Mammen Samuel, S. Prabhakar, M. P. Rajesh	Optimization of process conditions for the removal of zinc and lead by ultrafiltration using biopolymer	Chemical Papers	31 March 2021	2.146	Yes	Q2	https://doi.org/10.1007/s11696-021-01613-y
26	E. Poonguzhali, Ashish Kapoor*, P. Senthil Kumar, S. Prabhakar	Effective separation of toxic phenol from aquatic system using membrane assisted solvent extraction system	Desalination and Water Treatment	01 May 2021	1.254	Yes	Q3	https://doi.org/10.5004/dwt.2021.27037

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27	Murugesan Nivedha, Madhusudhanan Manisha, Margavelu Gopinath, G. Baskar, K. Tamilarasan*	Fractionation, characterization, and economic evaluation of alkali lignin from saw industry waste	Bioresource Technology	11 May 2021	9.642	Yes	Q1	https://doi.org/10.1016/j.biortech.2021.125260
28	Virendra K. Rathod, G. Keerthiga, Neha N. Gharat	Kinetics of Extraction of Total Phenolic Content from Sesbania grandiflora L. leaves using ultrasound	Indian Chemical Engineer	22 May 2021			Q3	https://doi.org/10.1080/00194506.2021.1921626
29	S. Samsnavith, A. Varun, N. Gowtham, S. Sam David*	Removal of phenol from aqueous phenol solution using bio-emulsion	Separation and Purification Technology	22 June 2021	7.312	Yes	Q1	https://doi.org/10.1016/j.seppur.2021.119138


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