

2020-2021

Paper No	Name	Paper Title	Authors	Journal Name, Volume, Page Number, Month & Year	DOI	IF
1.	Dr. K. Sathish Kumar	Multivariate polynomial fit: Decay heat removal system and pectin degrading Fe ₃ O ₄ -SiO ₂ nanobiocatalyst activity	Boopathi Muthusamy, Sujatha Ramalingam, Senthil Kumar Chandran, Sathish Kumar Kannaiyan	IET Nanobiotechnology, Vol.15, 173-196, April 2021	doi: 10.1049/nbt2.12034	1.97
2.		Biocompatible electrospun papain/chitosan NP/PVA nanofibrous scaffolds	Thulasingham A, Kannaiyan Sathish kumar	Bulletin of Material Science, Vol.44, 1-7, April 2021	https://doi.org/10.1007/s12034-021-02386-6	1.783

3.		Functionalized nanoformulation of swertiamarin with enhanced stability and hemocompatibility: synthesis, characterisation and anticancer evaluation	K P Gayathri, Kannaiyan Sathishkumar	Materials Technology, Vol.36, 440-449, May 2020	https://doi.org/10.1080/10667857.2020.1769260	3.297
4.		Optical Attenuation of PbSexS1-x quantum dots With Vegards law and Brus Equation Use	M.I.Ahmed, K.S.Kumar, E.E.Anand, A.Sivaranjani	Journal of Ovonic Research, Vol.16, 245-252, August 2020	DOI:10.15251/JOR.2020.164.245	1.121
5.		Review on surface modification of nanocarriers to overcome diffusion limitations: An enzyme immobilization aspect	Carlin Geor Malar, M. Seenuvasan, K.Sathish Kumar, Anil Kumar, R.Parthiban	Biochemical Engineering Journal, Vol.158, June 2020	https://doi.org/10.1016/j.bej.2020.107574	4.446
6.		Synthesis, characterization of blue fluorescent carbon nanoparticle and its in-vitro toxicity evaluation	K.S. Kumar, P.K. Gayathri, H. Khandelwal, K.K. Prashanth	Journal of Environmental Biology, Vol.41,1442-1449, November 2020	DOI : http://doi.org/10.22438/jeb/41/6/MRN-1354	0.70
7.		Polymeric materials for electromagnetic shielding - A review	K. Sathish Kumar, R. Rengaraj, G.R. Venkatakrishnan, A. Chandramohan	Materials Today: Proceedings, Vol.47, 4925-4928 October 2021	https://doi.org/10.1016/j.matpr.2021.03.720	
8.	Dr. R. Parthiban	A review on cleaner strategies for extraction of chitosan and its	M. Abhinaya, R. Parthiban*, P. Senthil Kumar*	Environmental Research Vol. 196, pp.	https://doi.org/10.1016/j.envres.2021.11	8.431

		application in toxic pollutant removal	Dai-Viet N. Vo	110996 May 2021	0996	
9.		Study of Bridge Rectangular Fin Heat Sink and the Effect of Angle Change on CPU Cooling	Ramasamy Govindarasu*, Ganesh Sudha, Rangasamy Parthiban	Technical Gazette 28, 5(2021), 1634-1639 August 2021	https://doi.org/10.17559/TV-20200321065149	
10.	Dr. P. Senthil Kumar	Fabrication of novel amine functionalized magnetic silica nanoparticles for toxic metals: kinetic and isotherm modelling	G. Janet Joshiba, P. Senthil Kumar* , Femina Carolin C, G. Pooja, V. Vinoth Kumar	Environmental Science and Pollution Research Vol. 27, pp. 27202-27210, August 2020	https://doi.org/10.1007/s11356-019-05186-y	4.223
11.		Modeling and Cr(VI) ion uptake kinetics of Sorghum bicolor plant assisted by Plant growth promoting Pannonibacter phragmetitus: An ecofriendly approach	P.R. Yaashikaa, P. Senthil Kumar* , A. Saravanan	Environmental Science and Pollution Research Vol. 27(22), pp. 27307–27318 August 2020	doi: 10.1007/s11356-019-05764-0	4.223
12.		Structural, Optical, thermal and non-isothermal decomposition behavior of PMMA nanocomposites	V. Parthasarathy*, R. Nagendrakumar, S. Mahalakshmi, P. Senthil Kumar , B Sundaresan	Journal of Inorganic and Organometallic Polymers and Materials Vol. 30, pp. 2998-3013, August 2020	https://doi.org/10.1007/s10904-020-01453-5	3.543
13.		Feasibility of Naphthol green-B dye adsorption using Microalgae: Thermodynamic and	E. Gunasundari, P. Senthil Kumar* , N. Rajamohan,	Desalination and Water Treatment Vol. 192, pp.	doi: 10.5004/dwt.2020.25777	1.234

		Kinetic Analysis	V. Parthasarathy	358-370 July 2020		
14.		Evaluation of mechanical, optical, and thermal properties of PVA nanocomposites embedded with Fe ₂ O ₃ nanofillers and the investigation of their thermal decomposition characteristics under non-isothermal heating condition	V. Parthasarathy, J. Selvi, P. Senthil Kumar , R. Anbarasan, S. Mahalakshmi	Polymer Bulletin Vol. 78, pp. 2191-2210, April 2021	https://doi.org/10.1007/s00289-020-03206-3	2.870
15.		Optimization and modeling of reactive yellow adsorption by surface modified Delonix regia seed: Study of nonlinear isotherm and kinetic parameters	A. Saravanan*, S. Karishma, S. Jeevanantham, S. Jeyasri, A.R. Kiruthika, P. Senthil Kumar , P.R. Yaashikaa	Surfaces and Interfaces Vol. 20, pp. 100620 September 2020	https://doi.org/10.1006/j.surf.2020.100520	4.837
16.		Electrodeionization theory, mechanism and environmental applications. A review	B. Senthil Rathi, P. Senthil Kumar*	Environmental Chemistry Letters Vol. 18, pp. 1209-1227 July 2020	https://doi.org/10.1007/s10311-020-01006-9	9.027
17.		A Review on Fluoride : Treatment Strategies and Scope for Further Research	Eunice Jayashree, G. Pooja, P. Senthil Kumar* , G. Prasannamedha	Desalination and Water Treatment Vol. 200, pp. 167-186 October 2020	doi: 10.5004/dwt.2020.26010	1.234

18.	Practice on treating pharmaceutical compounds present in wastewater using biosorption technique with different bio waste compounds. A Review	Magesh. N, Annam Renita. A, Senthil Kumar. P	Environmental Progress and Sustainable Energy Vol. 39, pp. e13429, November/December 2020	https://doi.org/10.1002/ep.13429	2.431
19.	Recent advancements in rapid analysis of pesticides using nano biosensors: a present and future perspective	Femina Carolin Christopher, Ponnusamy Senthil Kumar* , Fetcia Jackulin Christopher, Ganesan Janet Joshiba, Pavithra Madhesh	Journal of Cleaner Production Vol. 269, pp. 122356 October 2020	https://doi.org/10.1016/j.jclepro.2020.122356	9.297
20.	Enhanced Zn(II) ion adsorption on surface modified mixed biomass – <i>Borassus flabellifer</i> and <i>Aspergillus tamarii</i> : Equilibrium, kinetics and thermodynamics study	A.Saravanan, S.Jeevanantham, P.Senthil Kumar* , Sunita Varjani*, P.R.Yaashikaa, S.Karishma	Industrial Crops & Products Vol. 153, pp. 112613 October 2020	https://doi.org/10.1016/j.indcrop.2020.112613	5.645
21.	Production of pigment using <i>Aspergillus tamarii</i> : New potentials for synthesizing natural metabolites	A. Saravanan, R. Jayasree, P. Senthil Kumar* , Sunita Varjani,**, R.V. Hemavathy, S. Jeevanantham, P. R. Yaashikaa	Environmental Technology & Innovation Vol. 19, pp. 100967 August 2020	https://doi.org/10.1016/j.eti.2020.100967	5.263
22.	Kinetic and thermodynamic analysis	S. Suganya, P. Senthil	Desalination and Water	doi: 10.5004/dwt.2020.2	1.234

		on the abolition of toxic metals from wastewater using activated carbon produced from compost waste	Kumar*	Treatment Vol. 204, pp. 270-284 November 2020	6275	
23.		Rhamnolipid-assisted mycoremediation of polycyclic aromatic hydrocarbons by <i>Trametes hirsuta</i> coupled with enhanced ligninolytic enzyme production	Abiram Karanam Rathankumar,, Kongkona Saikia , Senthil Kumar Ponnusamy , María del Rayo Sánchez, Vaidyanathan Vinoth Kumar	Journal of the Air & Waste Management Association Vol. 70(12), pp. 1260-1267 December 2020	doi: 10.1080/10962247.2020.1790443	2.235
24.		Microalgae for biofuel production and removal of heavy metals: a review	K. Grace Pavithra, P. Senthil Kumar* , V. Jaikumar, Kilaru Harsha Vardhan, P. Sundarrajan	Environmental Chemistry Letters Vol. 18(6), pp. 1905-1923 November 2020	https://doi.org/10.1007/s10311-020-01046-1	9.027
25.		CdO nanoparticles and CdO nanoparticles/c-MWCNT nanocomposite fibres: In-Vitro Assessment on antiproliferative and apoptotic role in HeLa cancer cell line	J. Saranya, B.S. Sreeja, G Padmalaya, S. Radha, P. Senthil Kumar	IET Nanobiotechnology Vol. 14, Issue No. 8, pp. 695-700 October 2020	doi: 10.1049/iet-nbt.2020.0020	1.847
26.		Bioconversion of municipal solid waste into bio-based products: A review on valorisation and sustainable approach for circular bioeconomy	P. R. Yaashikaa, P. Senthil Kumar* , A. Saravanan, Sunita Varjani**, R. Racchana	Science of the Total Environment Vol. 748, pp. 141312 2020	https://doi.org/10.1016/j.scitotenv.2020.141312	7.963

27.	Analysis and removal of pharmaceutical residues from wastewater using membrane bioreactors: a review	Femina Carolin C, P. Senthil Kumar* , G. Janet Joshiba, V. Vinoth Kumar	Environmental Chemistry Letters Vol. 19(1), pp. 329-343, February 2021	https://doi.org/10.1007/s10311-020-01068-9	13.615
28.	A Fuzzy Cognitive Map Approach to Predict the Hazardous effects of Malathion to Environment (Air, Water and Soil)	S.Poomagal, R.Sujatha*, P.Senthil Kumar* , Dai-Viet N. Vo	Chemosphere Vol. 263, pp. 127926 January 2021	https://doi.org/10.1016/j.chemosphere.2020.127926	8.943
29.	Methods of detection of food borne pathogens: a review	A. Saravanan, P. Senthil Kumar* , R.V. Hemavathy, S. Jeevanantham, R. Kamalesh, S. Sneha, P.R. Yaashikaa	Environmental Chemistry Letters Vol. 19(1), pp. 189-207, February 2021	https://doi.org/10.1007/s10311-020-01072-z	13.615
30.	Performance of montmorillonite/graphene oxide/CoFe ₂ O ₄ as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater	Rauf Foroutan, Reza Mohammadi, Fariba MousaKhanloo, Soleyman Sahebi, Bahman Ramavandi*, P. Senthil Kumar , K. Harsha Vardhan	Advanced Powder Technology Vol. 31, pp. 3993-4004 September 2020	https://doi.org/10.1016/j.appt.2020.08.001	4.833
31.	Amino-functionalized mesoporous silica microspheres for immobilization of Candida antarctica lipase B : Application towards	Kongkona Saikia, P. Senthil Kumar , A.K. Rathankumar, S. Sai Lavanyaa, L. Srinivasan, S. Sivanesan,	IET Nanobiotechnology Vol. 14 (18), pp. 732-738, October 2020	doi: 10.1049/iet-nbt.2020.0021	1.847

		greener production of 2, 5-Furandicarboxylic acid	Hubert Cabana, M. Gosselin, V. Vinoth Kumar*			
32.		Photocatalysis for removal of environmental pollutants and fuel production: a review	A.Saravanan, P. Senthil Kumar* , Dai-Viet N. Vo, P. R. Yaashikaa, S. Karishma, S. Jeevanantham, B. Gayathri, V. Dhivya Bharathi	Environmental Chemistry Letters Vol. 19(1), pp. 441-463, February 2021	https://doi.org/10.1007/s10311-020-01077-8	13.615
33.		Adsorptive Separation of Toxic Metals from Aquatic Environment using Agro waste Biochar: Application in Electroplating Industrial Wastewater	R. Gayathri, K.P. Gopinath, P. Senthil Kumar*	Chemosphere Vol. 262, pp. 128031 January 2021	https://doi.org/10.1016/j.chemosphere.2020.128031	8.943
34.		Enhancement of Ultrasound Assisted Aqueous Extraction of Polyphenols from Waste Fruit Peel Using Surfactant: Assessment of Kinetic Models	P. Selvakumar, V.Karthik, P. Senthil Kumar* , P. Asaithambi, S. Kavitha, P. Sivashanmugam	Chemosphere Vol. 263, pp. 128071 January 2021	https://doi.org/10.1016/j.chemosphere.2020.128071	8.943
35.		Microbial electrolysis cells and microbial fuel cells for bio-hydrogen production: Current advances and emerging challenges	A. Saravanan, S. Karishma, P. Senthil Kumar* , P.R. Yaashikaa, S. Jeevanantham, B. Gayathri	Biomass Conversion and Biorefinery August 2020	https://doi.org/10.1007/s13399-020-00973-x	4.987
36.		Production of optically	S.A.A. Rawoof,	Environmental	https://doi.org/10.10	13.615

		pure lactic acid by microbial fermentation: a review	P. Senthil Kumar* , Dai-Viet N. Vo, K. Devaraj, Y. Mani, T. Devaraj, S. Subramanian	Chemistry Letters Vol. 19(1), pp. 539-556 February 2021	07/s10311-020-01083-w	
37.		Sustainable approach to decolourize methyl orange dye from aqueous solution using novel bacterial strain and its metabolites characterization	Femina Carolin C, P. Senthil Kumar* , G. Janet Joshiba	Clean Technologies and Environmental Policy Vol. 23(1), pp. 173-181, January 2021	https://doi.org/10.1007/s10098-020-01934-8	4.700
38.		Techniques of lipid extraction from microalgae for biofuel production: a review	Sze Ying Lee, Ianatul Khoiroh, Dai-Viet N. Vo, P. Senthil Kumar , Pau Loke Show	Environmental Chemistry Letters Vol. 19, pp. 231-251, February 2021	https://doi.org/10.1007/s10311-020-01088-5	13.615
39.		Magnetite Encapsulated Alginates Tailored Material for the Sustainable Treatment of Electroplating Industrial Wastewater: Column Dynamics and Mass Transfer Studies	K. Nithya, Asha Sathish, P. Senthil Kumar*	Clean Technologies and Environmental Policy Vol. 23(1), pp. 89-102, January 2021	https://doi.org/10.1007/s10098-020-01961-5	4.700
40.		A critical review on global trends in biogas scenario with its up-	D. Thiruselvi, P. Senthil Kumar* ,	International Journal of Hydrogen	https://doi.org/10.1016/j.ijhydene.2020.10.023	7.139

		gradation technique for fuel cell and future perspectives	M. Anil Kumar, Chyi-How Lay, Salma Aathika, Y. Mani, D. Jagadiswary, A. Dhanasekaran, P. Shanmugam, S. Sivanesan, Pau-Loke Show	Energy Vol. 46(31), pp. 16734-16750, May 2021		
41.		A Review on biosynthesis of metal nanoparticles and its environmental applications	A. Saravanan, P. Senthil Kumar* , S. Karishma, Dai-Viet N. Vo, S. Jeevanantham, P.R. Yaashikaa, Cynthia Susan George	Chemosphere Vol. 264, pp. 128580 February 2021	https://doi.org/10.1016/j.chemosphere.2020.128580	8.943
42.		Sequential production of hydrogen and methane by anaerobic digestion of organic wastes: a review	Salma AathikaAbdur Rawoof, P. Senthil Kumar* , Dai-Viet N. Vo, Sivanesan Subramanian	Environmental Chemistry Letters Vol. 19(2), pp. 1043-1063, April 2021	https://doi.org/10.1007/s10311-020-01122-6	13.615
43.		Food preservation techniques and nanotechnology for increased shelf life of fruits, vegetables, beverages and spices: a review	A. Sridhar, M. Ponnuchamy, P. Senthil Kumar* , Ashish Kapoor	Environmental Chemistry Letters Vol. 19(2), pp. 1715-1735, April 2021	https://doi.org/10.1007/s10311-020-01126-2	13.615
44.		A review on effective removal of emerging contaminants from aquatic	B. Senthil Rathi, P. Senthil Kumar* , Pau-	Journal of Hazardous Materials	https://doi.org/10.1016/j.jhazmat.2020.124413	14.224

		systems: current trends and scope for further research	Loke SHOW	Vol. 409, pp. 124413, May 2021		
45.		Effective Removal of Excessive Fluoride from Aqueous Environment using Activated pods of Bauhinia variegata: Batch and Dynamic analysis	D. Eunice Jayashree, P. Senthil Kumar* , P. Tsopbou Ngueagni, Dai-Viet N. Vo, Kit Wayne Chew	Environmental Pollution Vol. 272, pp. 115969, March 2021	https://doi.org/10.1016/j.envpol.2020.115969	9.988
46.		Hydrothermal production of algal biochar for environmental and fertilizer applications: a review	V. Karthik, P. Senthil Kumar* , Dai-Viet N. Vo, J. Sindhu, D. Sneka, B. Subhashini, K. Saravanan, J. Jeyanthi	Environmental Chemistry Letters Vol. 19(2), pp. 1025-1042, April 2021	https://doi.org/10.1007/s10311-020-01139-x	13.615
47.		Theoretical analysis of the heat transfer effect of viscoplastic nanofluids in process intensified chemical systems	S. Mullai Venthan, I. Jayakaran Amalraj*, P. Senthil Kumar*	Chemical Engineering and Processing: Process Intensification Vol. 159, pp. 108227 February 2021	https://doi.org/10.1016/j.cep.2020.108227	4.264
48.		Investigation of Magnetic Silica Nanocomposite Immobilized Pseudomonas fluorescens as a biosorbent for the	G. Janet Joshiba, P. Senthil Kumar* , M. Govarthanam, P. Tsopbou	Environmental Pollution Vol. 269, pp. 116173, January 2021	https://doi.org/10.1016/j.envpol.2020.116173	9.988

		effective sequestration of Rhodamine B from aqueous systems	Ngueagni, A. Abilarasu, Femina Carolin C			
49.		A review on critical assessment of advanced bioreactor options for sustainable hydrogen production	Femina Carolin C, P. Senthil Kumar* , Dai-Viet N. Vo, G. Janet Joshiba	International Journal of Hydrogen Energy Vol. 46(10), pp. 7113-7136, February 2021	https://doi.org/10.1016/j.ijhydene.2020.11.244	7.139
50.		Occurrence and removal of antibiotics from industrial wastewater	D. Akhil, Divya Lakshmi, P. Senthil Kumar* , Dai-Viet N. Vo, A. Kartik	Environmental Chemistry Letters Vol. 19, pp. 1477-1507, April 2021	https://doi.org/10.1007/s10311-020-01152-0	13.615
51.		Recent Developments in Photocatalytic Remediation of Textile Effluent using Semiconductor based Nanostructured Catalyst: A Review	J. Ambigadevi, P. Senthil Kumar* , Dai-Viet N. Vo, S. Hari Haran, T.N. Srinivasa Raghavan	Journal of Environmental Chemical Engineering Vol. 9(1), pp. 104881 February 2021	https://doi.org/10.1016/j.jece.2020.104881	7.968
52.		Enhanced Photocatalytic Degradation of Diclofenac by Sn _{0.15} Mn _{0.85} Fe ₂ O ₄ Catalyst under Solar Light	A. Abilarasu, P. Senthil Kumar* , Dai-Viet N. Vo, D. Krithika, P. Tsopbou Ngueagni, G. Janet Joshiba, Femina Carolin C, G. Prasannamedha	Journal of Environmental Chemical Engineering Vol. 9(1), pp. 104875 February 2021	https://doi.org/10.1016/j.jece.2020.104875	7.968

53.	Preparation of PAN/lycopene-TiO ₂ nanocomposite membrane for azo dye degradation	Devi Baskar, Gobi Nallathambi*, Arun Karthick Selvam, P. Senthil Kumar*	Desalination and Water Treatment Vol. 216, pp. 436-444, March 2021	doi: 10.5004/dwt.2021.26896	1.273
54.	Enhanced Adsorptive Removal of Sulfamethoxazole from Water using Biochar Derived from Hydrothermal Carbonization of Sugarcane Bagasse	G. Prasannamedha, P. Senthil Kumar* , R. Mehala, T.J. Sharumitha, D.Surendhar	Journal of Hazardous Materials Vol. 407, pp. 124825 April 2021	https://doi.org/10.1016/j.jhazmat.2020.124825	14.224
55.	A review on new aspects of lipopeptide biosurfactant: types, production, properties and its application in the bioremediation process	Femina Carolin C, P. Senthil Kumar* , P. Tsopbou Ngueagni	Journal of Hazardous Materials Vol. 407, pp. 124827 April 2021	https://doi.org/10.1016/j.jhazmat.2020.124827	14.224
56.	Adsorption Characteristics of Magnetic Nanoparticles Coated Mixed Fungal Biomass for Toxic Cr(VI) ions in Aquatic Environment	A. Saravanan, P. Senthil Kumar* , M. Govarthanan, Cynthia Susan George, S. Vaishnavi, B. Mouliswaran, S. Praveen Kumar, S. Jeevanantham, P R Yaashikaa	Chemosphere Vol. 261, pp. 129226 March 2021	https://doi.org/10.1016/j.chemosphere.2020.129226	8.943
57.	Enzyme-loaded nanoparticles for the	V. Karthik, P. Senthil	Environmental Chemistry	https://doi.org/10.1007/s10311-020-	13.615

		degradation of wastewater contaminants: a review	Kumar* , Dai-Viet N. Vo, P. Selvakumar, M. Gokulakrishnan, P. Keerthana, V. Audilakshmi, J. Jeyanthi	Letters Vol. 19, pp. 2331-2350, June 2021	01158-8	
58.		Effect of antibiotics on the microbial efficiency of anaerobic digestion of wastewater: A review	Leilei Xiao, Yiping Wang, Eric Lichtfouse, Zhenkai Li, P. Senthil Kumar* , Jian LIU, Dawei Feng*, Qingli Yang, Fanghua Liu	Frontiers in Microbiology Vol. 11, pp. 611613, January 2021	https://doi.org/10.3389%2Ffmicb.2020.611613	6.064
59.		Sustainable Strategy for the Enhancement of Hazardous Aromatic Amine degradation using lipopeptide biosurfactant isolated from <i>Brevibacterium casei</i>	Femina Carolin C, P. Senthil Kumar* , G. Janet Joshiba, Pavithra Madhesh, Racchana Ramamurthy	Journal of Hazardous Materials Vol. 408, pp. 124943 April 2021	https://doi.org/10.1016/j.jhazmat.2020.124943	14.224
60.		Prediction on Water Quality of a Lake in Chennai, India using Machine Learning Algorithms	D. Venkata Vara Prasad, Lokeswari Y Venkataramana, P. Senthil Kumar* , G. Prasannamedha, K. Soumya, A.J. Poornema	Desalination and Water Treatment Vol. 218, pp. 44-51, April 2021	doi: 10.5004/dwt.2021.26970	1.273

61.	Simultaneous removal of Cu(II) and Reactive Green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery	A. Saravanan, S. Karishma, P. Senthil Kumar* , Sunita Varjani**, P.R. Yaashikaa, S. Jeevanantham, Racchana Ramamurthy, B. Reshma	Chemosphere Vol. 271, pp. 129519 May 2021	https://doi.org/10.1016/j.chemosphere.2020.129519	8.943
62.	Ultrasonic Assisted Agro Waste Biomass for Rapid Removal of Cd(II) ions from Aquatic Environment: Mechanism and Modelling Analysis	A. Saravanan, P. Senthil Kumar* , Dai-Viet N. Vo, S. Swetha, P. Tsopbou Ngueagni, S. Karishma, S. Jeevanantham, P.R. Yaashikaa	Chemosphere Vol. 271, pp. 129484 May 2021	https://doi.org/10.1016/j.chemosphere.2020.129484	8.943
63.	Effective removal of Cr(VI) ions from synthetic solution using Mixed Biomasses : Kinetic, Equilibrium and Thermodynamic study	A. Saravanan, P. Senthil Kumar* , Sunita Varjani*, S. Karishma, S. Jeevanantham, P.R. Yaashikaa	Journal of Water Process Engineering Vol. 40, pp. 101905 April 2021	https://doi.org/10.1016/j.jwpe.2020.101905	7.340
64.	A review on algal-bacterial symbiotic system for effective treatment of wastewater	A. Saravanan, P. Senthil Kumar* , Sunita Varjani, S. Jeevanantham, P.R. Yaashikaa, P. Thamarai, B. Abirami, Cynthia Susan	Chemosphere Vol. 271, pp. 129540 May 2021	https://doi.org/10.1016/j.chemosphere.2021.129540	8.943

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65.		Intensification of heat and mass transfer process in MHD Carreau nanofluid flow containing gyrotactic microorganisms	M. Elayarani, M. Shanmugapriya* , P. Senthil Kumar*	Chemical Engineering and Processing: Process Intensification Vol. 160, pp. 108299 May 2021	https://doi.org/10.1016/j.cep.2021.108299	4.264
66.		Efficient Electrophoretic deposition of an intensification process to enhance the mechanical properties of Glass fibre reinforced polymer	M.S. Nisha*, K. V. Ravali, P. Senthil Kumar* , P. Faruk Khan, P. Vinay, K. Jairam	Chemical Engineering and Processing: Process Intensification Vol. 160, pp. 108298 March 2021	https://doi.org/10.1016/j.cep.2021.108298	4.264
67.		A Review on Cleaner Approach for Effective Separation of Toxic Pollutants from Wastewater using Carbon Sphere's as Adsorbent: Preparation, Activation and Applications	R. Sivaranjane, P. Senthil Kumar*	Journal of Cleaner Production Vol. 291, pp. 125911 April 2021	https://doi.org/10.1016/j.jclepro.2021.125911	11.072
68.		Sustainable adsorbents for decontamination of pesticides from water: A	Muthamilselvi Ponnuchamy, Ashish Kapoor*,	Environmental Chemistry Letters	https://doi.org/10.1007/s10311-021-01183-1	13.615

		review	Ponnusamy Senthil Kumar* , Dai-Viet N. Vo, Akash Balakrishnan, Meenu Mariam Jacob, Prabhakar Sivaraman	Vol. 19, pp. 2425-2463, June 2021		
69.		Effective removal of malachite green dye from aqueous solution in hybrid system utilizing agricultural waste as particle electrodes	A. Annam Renita, Kilaru Harsha Vardhan* P. Senthil Kumar* , P. Tsopbou Ngueagni, A. Abilarasu, Subi Nath, Pallavi Kumari, R. Saravanan	Chemosphere Vol. 273, pp. 129634 June 2021	https://doi.org/10.1016/j.chemosphere.2021.129634	8.943
70.		Effective separation of toxic phenol from aquatic system using membrane assisted solvent extraction system	E. Poonguzhali, Ashish Kapoor*, P. Senthil Kumar , S.Prabhakar	Desalination and Water Treatment Vol. 221, pp. 316-327, May 2021	doi: 10.5004/dwt.2021.27037	1.273
71.		A performance comparison of anaerobic and an integrated anaerobic-aerobic biological reactor system for the effective treatment of textile wastewater	Tasneem M Kathawala, K. Veena Gayathri*, P. Senthil Kumar*	International Journal of Chemical Engineering Vol. 2021, Article ID 8894332, pp. 1-15, February 2021	https://doi.org/10.1155/2021/8894332	2.729

72.	An effective separation of toxic arsenic from aquatic environment using electrochemical ion exchange process	B. Senthil Rathi, P. Senthil Kumar* , R. Ponprasath, K. Rohan, N. Jahnvi	Journal of Hazardous Materials Vol. 412, pp. 125240, June 2021	https://doi.org/10.1016/j.jhazmat.2021.1125240	14.224
73.	The war using microbes: A sustainable approach for wastewater management	A.K. Priya, Rekka Pachaiappan, P. Senthil Kumar* , A.A. Jalil, Dai-Viet N. Vo, Saravanan Rajendran*	Environmental Pollution Vol. 275, pp. 116598, April 2021	https://doi.org/10.1016/j.envpol.2021.116598	9.988
74.	Effectiveness of a biogenic composite derived from cattle horn core/iron nanoparticles via wet chemical impregnation for Cadmium (II) removal in aqueous solution	P. Tsopbou Ngueagni, P. Senthil Kumar* , E. Djoufac Woumfo*, A. Abilarasu, G. Janet Joshiba, Femina Carolin C, G. Prasannamedha, P. Nkuigue Fotsing, M. Siewe	Chemosphere Vol. 272, pp. 129806, June 2021	doi: 10.1016/j.chemosphere.2021.129806	8.943
75.	Performance study on adsorptive removal of acetaminophen from wastewater using silica microspheres: Kinetic and Isotherm studies	Ramesh Natarajan, Koyena Banerjee, Ponnusamy Senthil Kumar , Tanya Somanna, Diya Tannani, Varshni Arvind,	Chemosphere Vol. 272, pp. 129896, June 2021	https://doi.org/10.1016/j.chemosphere.2021.129896	8.943

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76.		Kinetic modelling of high turbid water flocculation using native and surface functionalized coagulants prepared from shed-leaves of Avicennia marina plants	A.K. Naruka, S. Suganya, P. Senthil Kumar , C. Amit, K. Ankita, D. Bhatt, M. Anil Kumar*	Chemosphere Vol. 272, pp. 129894, June 2021	https://doi.org/10.1016/j.chemosphere.2021.129894	8.943
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78.		Process Intensified microwave absorption nanocomposite for stealth application	M.S. Nisha*, J. Arathy Krishna, P. Senthil Kumar* , S. Ramprabhu	Chemical Engineering and Processing: Process Intensification Vol. 163, pp. 108333, June 2021	https://doi.org/10.1016/j.cep.2021.108333	4.264

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80.	Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh	Sk. Yasir Arafat Siddiki*, M.N. Uddin, M. Mofijur**, I.M.R. Fattah, Hwai Chyuan On, Su Shiung Lam, P. Senthil Kumar , S.F. Ahmed	Journal of Environmental Chemical Engineering Vol. 9(3), pp. 105204, June 2021	https://doi.org/10.1016/j.jece.2021.105204	7.968
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84.	pH Sensitivity Estimation in Potentiometric Metal Oxide pH Sensors using the Principle of Invariance	Siddharth Ravichandran, Chockalingam Thiagarajan, Ponnusamy Senthil Kumar*	International Journal of Chemical Engineering Vol. 2021, Article ID: 5551259, pp. 1-18, March 2021	https://doi.org/10.1155/2021/5551259	2.729
85.	Metabolic and molecular modelling of zebrafish gut biome to unravel antimicrobial peptides through metagenomics	K. Veena Gayathri*, S. Aishwarya, P. Senthil Kumar* , U Rohini Rajendran, K. Gunasekaran	Microbial Pathogenesis Vol. 154, pp. 104862, May 2021	https://doi.org/10.1016/j.micpath.2021.104862	3.848
86.	Rare earth metal (Sm) doped zinc ferrite (ZnFe ₂ O ₄) for improved photocatalytic elimination of toxic dye from aquatic system	SP. Keerthana, R. Yuvakkumar*, P. Senthil Kumar* , G. Ravi, Dhayalan Velauthapillai	Environmental Research Vol. 197, pp. 111047, June 2021	https://doi.org/10.1016/j.envres.2021.111047	8.431
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88.		Modelling analysis on the effective elimination of toxic pollutant from aquatic environment using pyrolysis assisted Palmyra palm male inflorescence	A. Saravanan, P. Senthil Kumar* , S. Jeevanantham, S. Karishma, P.R. Yaashikaa	Environmental Research Vol. 197, pp. 111146, June 2021	https://doi.org/10.1016/j.envres.2021.111146	8.431
89.		Investigation of EG-Bi ₂ S ₃ nanorods photocatalytic activity under visible light for dye degradation from aquatic system	S. Keerthana, R. Yuvakkumar*, P. Senthil Kumar* , G. Ravi, D. Velauthapillai, Dai-Viet N. Vo	Environmental Science and Pollution Research June 2021	https://doi.org/10.1007/s11356-021-14933-z	5.190
90.		Adsorptive removal of malachite green dye onto coal associated soil and conditions optimization	T.R. Sundararaman, A. Saravanan, P. Senthil Kumar* , M. Millicent Mabel, R.V. Hemavathy, S. Karishma, S. Jeevanantham, R. Hemavathi, A. Ishwariya, S. Kowsalya	Adsorption Science & Technology Vol. 2021, Article ID 5545683, pp. 1-11, June 2021	https://doi.org/10.1155/2021/5545683	4.373
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96.	Dr. K. Jagannathan	Experimental investigation on CO ₂ absorption and physicochemical characteristics of different carbon-loaded aqueous	Perumal M, Karunakaran NR, Balraj A, Jayaraman D, Krishnan J, Prakash AB,	Environmental Science and Pollution Research PP 1-2, August 2020	https://doi.org/10.1007/s11356-020-10562-0	3.05

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98.	Dr. D. Gnana Prakash	Enhancement of aqueous solubility and extraction of lauric acid using hydrotropes and its interaction studies by COSMO-RS model	S. Balachandran D. Gnana Prakash R. Anantharaj M. R. Danish John Paul	Journal of Dispersion Science and Technology, Vol. 42. (12), PP. 1820-1829 July 2020	https://doi.org/10.1080/01932691.2020.1789471	2.057
99.		Application of an immobilized microbial consortium for the treatment of pharmaceutical wastewater: Batch-wise and continuous studies	Shabnam Murshid Gnana Prakash Dhakshinamoorthy	Chinese Journal of Chemical Engineering, Vol 29,, PP. 391-400 Jan 2021	https://doi.org/10.1016/j.cjche.2020.04.008	3.898
100.		Environmental applications of carbon-based materials: a review	Kannapan Panchamoorthy Gopinath, Dai-Viet N Vo, Dhakshinamoorthy Gnana Prakash, Antony Samy Adithya Joseph, Samynaathan Viswanathan, Jayaseelan Arun	Environmental Chemistry Letter, 19 (1),, 557 - 582 February 2021	https://doi.org/10.1007/s10311-020-01084-9	13.615

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102.		Investigations on SILAR coated CZTS thin films for solar cell applications	K. Ganesh Kumar, P. Balaji Bhargav, D. Gnana Prakash, R. Kaushik, E. Reon Mathew, M.K. Shriram and K. Veerathangam	Phase Transitions, 94, pp. 556-566 June 2021,	doi.org/10.1080/01411594.2021.1939874	1.529
103.		A Study on Polythiophene Modified Carbon Cloth as Anode in Microbial Fuel Cell for Lead Removal	Rajkumar Rajendran, Gnana Prakash Dhakshina Moorthy, Haribabu Krishnan & Sumisha Anappara	Arabian Journal for Science and Engineering, Vol.volume 46, PP. 6695–6701, July 2021	doi.org/10.1007/s13369-021-05402-3	2.807
104.		A comprehensive review on lignin obtained from agro-residues: potential source of useful chemicals	Muthamil Selvam Rishikesh, Sivakumaran Harish, Sevalur Mahendran Prasanth & Dhakshinamoorthy Gnana Prakash	Biomass Conversion and Biorefinery, 1- 24 June 2021	https://doi.org/10.1007/s13399-021-01637-0	4.05
105.	Dr.Nalinkanth V Ghone	1.In silico binding analysis of human CD40 ligand mimetic molecule,	Sivagami, S., Rathna, R., Nagavignesh, S.,	Journal of Environmental Biologythis link	http://doi.org/10.22438/jeb/42/2/MRN-	0.703

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107.	Dr. Ambedkar	Experimental investigation on CO2 absorption and physicochemical characteristics of different carbon-loaded aqueous solvents	Muthumari Perumal, Ambedkar Balraj, Dhanalakshmi Jayaraman, Jagannathan Krishnan	Environmental Science and Pollution Research 28, 63532–63543 (2021) December 2021	https://doi.org/10.1007/s11356-020-10562-0	5.19
108.		Potential use of biomass and coal-fine waste for making briquette for sustainable energy and environment	Ambedkar Balraj*, Jagannathan Krishnan, Keerthana Selvarajan, Keertthana Sukumar	Environmental Science and Pollution Research 8, 63516–63522 (2021) December 2021	https://doi.org/10.1007/s11356-020-10312-2	5.19
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111.		Experimental studies on CO ₂ absorption and solvent recovery in aqueous blends of monoethanolamine and tetrabutylammonium hydroxide	Muthumari Perumal, Dhanalakshmi Jayaraman, Ambedkar Balraj	Chemosphere Volume 276,, 130159 August 2021	https://doi.org/10.1016/j.chemosphere.2021.130159	8.94
112.		Experimental investigation of density, viscosity, and surface tension of aqueous tetrabutylammonium-based ionic liquids.	Muthumari Perumal, Ambedkar Balraj, Dhanalakshmi Jayaraman & Jagannathan Krishnan	Environmental Science and Pollution Research 28 vol28, 63599–63613 (2021) December 2021	https://doi.org/10.1007/s11356-020-11174-4	5.19
113.	Dr. R. Anantharaj	Ammonium Based Deep Eutectic Solvents (DESs) on Extraction of Benzothiophene from Iso-octane: Experiment and COSMO-RS Model	Vivek Santhi, Anantharaj Ramalingam , Deepthi Jaya chandran Srikala, Vichitra Malaiyarasan, A. Chandramohan	Journal of Dispersion Science and Technology. 1778-1788,43, 2022 February 2021	https://doi.org/10.1080/01932691.2021.1880922	2.057

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116.		Evaluation of column studies using Cynodon dactylon plant-mediated amino-grouped silica-layered magnetic nanoadsorbent to remove noxious hexavalent chromium metal ions	Dhanya Vishnu & Balaji Dhandapani	IET Nanobiotechnology. 2021;1-9. March 2021	https://doi.org/10.1049/nbt2.12029	2.05
117.		Comparison of surface-engineered superparamagnetic nanosorbents with low-cost adsorbents of cellulose, zeolites and biochar for the removal of organic and inorganic pollutants: a review	Vishnu, D., Dhandapani, B., Kannappan Panchamoorthy, G. Dai-Viet N. Vo & Shankar Ram Ramakrishnan	Environmental Chemistry Letters (2021) 19(4), 3181-3208. Online on 10 August 2021	https://doi.org/10.1007/s10311-021-01201-2	5.9
118.		Recovery of valuable metals from waste printed	Santhosh Krishnamoorthy,	IET Nanobiotechnol	DOI: 10.1049/nbt2.12001	1.859

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119.	Dr. B. Chitra	A Proficient approach to enhance heat transfer using cupric oxide/silica hybrid nanoliquids	Fedal Castro Nagarajan, Sathish Kumar Kannaiyan & Chitra Boobalan	Journal of Thermal Analysis and Calorimetry, 147, 5589–5598, May 2022	https://doi.org/10.1007/s10973-021-10956-3	
120.		Stimulation of <i>Bacillus</i> sp. by lipopeptide biosurfactant for the degradation of aromatic amine 4-Chloroaniline	C. Femina Carolin, P. Senthil Kumar, B. Chitra, C. Fetcia Jackulin, Racchana Ramamurthy	Journal of Hazardous Materials, Volume 415, 5 125716 August 2021,	https://doi.org/10.1016/j.jhazmat.2021.125716	
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125.		Hydrothermal liquefaction of Prosopis juliflora biomass for the production of ferulic acid and bio-oil	Jayaseelan Arun a, Kannappan Panchamoorthy Gopinath	Bioresource Technology Volume 319, 124116 January 2021	https://doi.org/10.1016/j.biortech.2020.124116	7.539
126.		Anaerobic digestate water for Chlorella pyrenoidosa cultivation and employed as co-substrate with cow dung and chicken manure for methane and hydrogen production: A closed loop approach	R Malolan, R Sai Jayaraman, S Adithya, J Arun, K P Gopinath, P Sundar Rajan	Chemosphere Volume 266, 128963 March 2021	https://doi.org/10.1016/j.chemosphere.2020.128963	7.539
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128.		Importance and ILL-Effects of Nanoparticles: Sensors for their Identification	Vallidevi Krishnamurthy*, Kannapan Panchamoorthy Gopinath, Dhakshinamoorthy Gnana Prakash, Ganeshraj Vanathi, Suresh Ganapathy Shivanirudh and Mohd Imran Ahamed	Current analytical Chemistry 17, Page: 244 - 259 02 January, 2020	10.2174/15734110 166662001021135 29	1.365
129.		Comparison of surface-engineered superparamagnetic nanosorbents with low-cost adsorbents of cellulose, zeolites and biochar for the removal of organic and inorganic pollutants: a review	Dhanya Vishnu; Balaji Dhandapani; Gopinath Kannappan Panchamoorthy; Dai-Viet N. Vo; Shankar Ram Ramakrishnan	Environmental Chemistry Letters 19, 3181–3208 (2021) August 2021	https://doi.org/10.1007/s10311-021-01201-2	5.92
130.		Optimization of hydrothermal liquefaction process through machine learning approach: process conditions and oil yield	Gopirajan PV, Gopinath KP, Sivaranjani G, Arun J	Biomass conversion and biorefinery 13, 1213–1222 (2023) January 2023	https://doi.org/10.1007/s13399-020-01233-8	2.602
131.		Upgradation of Nostoc punctiforme under	Arun J, Gopinath KP, Sundar Rajan	Journal of Environmental	https://doi.org/10.1016/j.jece.2021.10	4.3

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132.		Co-hydrothermal gasification of microbial sludge and algae <i>Kappaphycus alvarezii</i> for bio-hydrogen production: Study on aqueous phase reforming	Sai Jayaraman R, Gopinath KP, Arun J, Malolan R, Adithya S, Ajay Srinivaasan P, Sivaramakrishnan R, Pugazhendhi A	International Journal of Hydrogen Energy 46, 16555-16564 May 2021	10.1016/j.ijhydene.2021.02.038	4.939
133.		Nano-adsorbents an effective candidate for removal of toxic pharmaceutical compounds from aqueous environment: A critical review on emerging trends	Neha R, Adithya S, Sai Jayaraman R, Gopinath KP, Pandimadevi M, Prabhuraman L, Arun J	Chemosphere 272 - 129852 June 2021	https://doi.org/10.1016/j.chemosphere.2021.129852	5.778
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135.		Effect of algae (<i>Scenedesmus obliquus</i>) biomass pre-treatment on bio-oil production in	Mahima J, Sundaresh R, Gopinath KP, Sundar Rajan P,	Science of the Total Environment 778 - 146262	https://doi.org/10.1016/j.scitotenv.2021.146262	6.551

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137.		Insights into valuing the aqueous phase derived from hydrothermal liquefaction	Sundar Rajan P, Gopinath KP, Arun J, Grace Pavithra K, Adithya Joseph A, Manasa S	Renewable and Sustainable Energy Reviews 144 - 111019 July 2021	10.1016/j.rser.2021.111019	12.11
138.		Production, characterization, activation and environmental applications of engineered biochar: a review	Akhil D, Divya Lakshmi, Kartik A, Dai-Viet N Vo, Arun J, Gopinath KP	Environmental Chemistry Letters 19, 2261–2297 June 2021	10.1007/s10311-020-01167-7	5.92
139.		Lignin waste processing into solid, liquid, and gaseous fuels: A comprehensive review	Shreya Suresh, Vinatha Viswanathan, Malarvizhi Angamuthu, Gnana Prakash Dhakshinamoorthy, Kannappan Panchamoorthy Gopinath, Amit Bhatnagar	Biomass Conversion and Biorefinery DOI: 10.1007/s13399-021-01497-8 April 2023	DOI: 10.1007/s13399-021-01497-8	4.05