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Area of Research: Environmental Biotechnology; Wastewater Treatment

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, and year of publication.	Impact Factor
1	Adsorption of methylene blue dye onto surface modified cashew nut shell	P. Senthil Kumar, R.V. Abhinaya, K. GayathriLashmi, V. Arthi, M. Priyadharshini, S. Sivanesan*	Environmental Engineering and Management Journal Vol. 13, Issue No. 3, pp. 545-556 and 2014	1.334
2	Removal of Cu(II) ions from aqueous solution by adsorption onto activated carbon produced from <i>Guazuma ulmifolia</i> seeds	P. Rajkumar, P. Senthil Kumar, M. Priyadharshini, S. Dinesh Kirupha, P. Baskaralingam S. Sivanesan	Environmental Engineering and Management Journal Vol. 13, Issue No. 4, pp. 905-914 and 2014	1.334
3	Adsorption kinetics, mechanism, isotherm and thermodynamic analysis of copper ions onto the surface modified agricultural waste	P. Senthil Kumar, C. Senthamarai, A. Durgadevi	Environmental Progress & Sustainable Energy Vol. 33, Issue No. 1, pp. 28-37 and 2014	1.326
4	Adsorption of lead(II) ions from simulated wastewater using natural waste: A kinetic, thermodynamic and equilibrium study	P. Senthil Kumar	Environmental Progress & Sustainable Energy Vol. 33, Issue No. 1, pp. 55-64 and 2014	1.326
5	Adsorption of basic dye onto raw and surface modified agricultural waste	P. Senthil Kumar, M. Palaniyappan, M. Priyadharshini, A.M. Vignesh, A. Thanjiappan, P. Sebastina Anne	Environmental Progress & Sustainable Energy Vol. 33, Issue No. 1, pp. 87-98 and 2014	1.326

		Fernando, R. Tanvir Ahmed, R. Srinath		
6	Adsorption of dye onto raw and surface modified tamarind seeds: Isotherms, Process Design, Kinetics, and Mechanism	P. Senthil Kumar , R. Sivaranjane, U. Vinothini, M. Raghavi, K. Rajasekar, K. Ramakrishnan	Desalination and Water Treatment Vol. 52, Issue No. 13-15, pp. 2620-2633 and 2014	1.383
7	Effect of temperature on the adsorption of methylene blue dye onto the sulphuric acid treated orange peel	P. Senthil Kumar , P. Sebastina Anne Fernando, R. Tanvir Ahmed, R Srinath, M. Priyadharshini, A.M. Vignesh, A. Thanjiappan	Chemical Engineering Communications Vol. 201, pp. 1526-1547 and 2014	1.282
8	Removal and recovery Ni(II) ions from synthetic wastewater using surface modified <i>Strychnos potatorum</i> seeds: Experimental optimization and Mechanism	K. Anbalagan, P. Senthil Kumar , K. Sangita Gayatri, S. Shahul Hameed, M. Sindhuja, C. Prabhakaran and R. Karthikeyan	Desalination and Water Treatment Vol. 53, Issue No. 1, pp. 171-182 and 2015	1.383
9	A new electrode reactor with in-built recirculation mode for the enhancement of methylene blue dye removal from the aqueous solution: comparison of adsorption, electrolysis and combined effect	P. Senthil Kumar* , S. Maria Jacob Stani Raja, K. Mahathevan, L. Dinesh Kumar, C. Prabhakaran	Korean Journal of Chemical Engineering Vol.31, Issue No.2, pp. 276-283 and 2014	2.199
10	Removal of fluoride from aqueous media by magnesium oxide coated nanoparticles	N. Minju, K. Venkat Swaroop, K. Haribabu, V. Sivasubramanian, P. Senthil Kumar	Desalination and Water Treatment Vol.53, Issue No.11, pp. 2905-2914 and 2015	1.383
11	Binding of Zn(II) ions to Chitosan-PVA blend in aqueous environment: Adsorption kinetics and equilibrium studies	T. Anitha, P. Senthil Kumar , K. Sathish Kumar	Environmental Progress & Sustainable Energy Vol.34, Issue No.1, pp. 15- 22 and 2015	1.326

12	<i>Sargassum wightii</i> , a marine algae is the source for the production of algal oil, bio-oil and application in the dye wastewater treatment	P. Senthil Kumar* , J. Pavithra, S. Suriya, M. Ramesh and K. Anish Kumar	Desalination and Water Treatment Vol.55, Issue No.5, pp. 1342-1358 and 2015	1.383
13	Characteristics of thermodynamic, isotherm, kinetic, mechanism and design equations for the analysis of adsorption in Cd(II) ions – surface modified Eucalyptus seeds system	U. Pearlin Kiruba, P. Senthil Kumar* , C. Prabhakaran, V. Aditya	Journal of the Taiwan Institute of Chemical Engineers Vol.45, pp. 2957-2968 and 2014	3.849
14	Study of adsorption kinetic, mechanism, isotherm, thermodynamic and design models for Cu(II) ions on sulphuric acid modified Eucalyptus seeds: Temperature effect	U. Pearlin Kiruba, P. Senthil Kumar* , K. Sangita Gayatri, S. Shahul Hameed, M. Sindhuja, C. Prabhakaran	Desalination and Water Treatment Vol.56, Issue No.11, pp. 2948-2965 and 2015	1.383
15	Enhanced photocatalytic decolorization of reactive red by sonocatalysis using TiO ₂ catalyst: Factorial design of experiments	V. Mathivanan, S. Geetha Manjari, R.Ineya, R.Saravanathamizhan P. Senthil Kumar , K. Ramakrishnan	Desalination and Water Treatment Vol. 57, Issue No.15, pp. 7120-7129 and 2016	1.383
16	Experimental study on parameter estimation and mechanism for the removal of turbidity from groundwater and synthetic water using <i>Moringa oleifera</i> seed powder	P. Senthil Kumar , V.M. Centhil, R. Kameshwari, M. Palaniyappan, V. Durga Kalaivani, K. Grace Pavithra	Desalination and Water Treatment Vol. 57, Issue No.12, pp. 5488-5497 and 2016	1.383
17	Study of adsorption of Cu(II) ions from aqueous solution by surface-modified Eucalyptus globulus seeds in a fixed-bed column: experimental optimization and mathematical modeling	P. Senthil Kumar , A.S.L. Sai Deepthi, R. Bharani, G. Rakkesh	Research on Chemical Intermediates Vol.41, Issue No.11, pp. 8681-8698 and 2015	1.674
18	Adsorption of copper ions onto nano scale zero-valent iron impregnated cashew nut shell	D. Prabu, R. Parthiban, P. Senthil Kumar* Nupur Kumari, Paharika Saikia	Desalination and Water Treatment Vol.57, Issue No.14, pp. 6487-6502 and 2016	1.383

19	Adsorption of an anionic dye onto native and chemically modified agricultural waste	M.P. Premkumar K. Sowmya, P. Senthil Kumar , V. Vinothkumar, V. Sathyaselvabala, D. Anuradha, S. Sivanesan	Environmental Engineering and Management Journal Vol. 18 (1), pp. 257-270 2019	1.334
20	Conversion of waste plastics into low-emissive hydrocarbon fuels through catalytic depolymerisation in a new laboratory scale batch reactor	P. Senthil Kumar , M. Bharathikumar, C. Prabhakaran, S. Vijayan K. Ramakrishnan	International Journal of Energy and Environmental Engineering Vol. 8, pp. 167-173, 2017	0.564
21	Adsorption kinetic, equilibrium and thermodynamic investigations of Zn(II) and Ni(II) ions removal by poly(azomethine thioamide) resin with pendent chlorobenzylidene ring	P. Senthil Kumar* , H. Ethiraj, Anitha Venkat, N. Deepika, S. Nivedha, T. Vidhyadevi, L. Ravikumar and S. Sivanesan	Polish Journal of Chemical Technology Vol. 17, Issue No. 3, pp. 29-38 and 2015	0.550
22	Adsorption of toxic Cr(VI) ions from aqueous solution by sulphuric acid modified <i>Strychnos potatorum</i> seeds in batch and column studies	K. Anbalagan, P. Senthil Kumar , R. Karthikeyan	Desalination and Water Treatment Vol. 57, Issue No. 27, pp. 12585-12607 and 2016	1.383
23	Biosorption of lead(II) ions onto nano-sized chitosan particle blended Polyvinyl Alcohol (PVA): Adsorption Isotherms, Kinetics and equilibrium studies	T. Anitha, P. Senthil Kumar , K. Sathish Kumar, K. Sriram, J. Feroze Ahmed	Desalination and Water Treatment Vol. 57, Issue No. 29, pp. 13711-13721 and 2016	1.383
24	Optimization of process parameters for the removal of chromium(VI) and nickel(II) from aqueous solutions by	A. Saravanan, P. Senthil Kumar , B. Preetha	Desalination and Water Treatment Vol. 57, Issue No. 31, pp. 14530-14543 and 2016	1.383

	mixed biosorbents (custard apple seeds and <i>Aspergillus niger</i>) using response surface methodology			
25	Novel adsorbent from agricultural waste (cashew nut shell) for methylene blue dye removal: Optimization by Response Surface Methodology	S. Ramalingam, P. Senthil Kumar* ,	Water Resources and Industry Vol.11, pp. 64-70 and 2015	1.015
26	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosan - polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach	T. Anitha, P. Senthil Kumar* , K. Sathish Kumar, B. Ramkumar, S. Ramalingam	Process Safety and Environmental Protection Vol. 98, pp. 187-197 and 2015	3.441
27	Ultrasonic assisted activated biomass (fishtail palm <i>Caryota urens</i> seeds) for the sequestration of copper ions from the wastewater	A. Saravanan, P. Senthil Kumar , R. Mugilan	Research on Chemical Intermediates Vol. 42, pp. 3117-3146 and 2016	1.674
28	Biochemical quantification and antibacterial properties of <i>Corallocarpus epigaeus</i>	M. Jayaseelan, T. Arumugam, P. Senthil Kumar , N.Thangaraj	Bioscience Discovery , Vo.7, Issue No. 1, pp. 11-16 and 2016	3.42
29	Performance study on sequestration of copper ions from contaminated water using newly synthesized high effective chitosan coated magnetic nanoparticles	Gerard Neeraj, Santhana Krishnan, P. Senthil Kumar* , Kaliyur Ravi Shriaishvarya, V. Vinoth Kumar	Journal of Molecular Liquids , Vo.214, pp. 335-346 and 2016	4.513
30	Removal of toxic zinc from water / wastewater using eucalyptus seeds activated carbon: Non-linear regression analysis	P. Senthil Kumar* , A. Saravanan, K. Anish Kumar, R. Yashwanth, S. Visvesh	IET Nanobiotechnology Vo.10, Issue No. 4, pp. 244-253 and 2016	2.059

31	Biosorption of hexavalent chromium from aqueous solution using raw and acid treated biosorbent prepared from <i>Lantana camara</i> fruit	K. Nithya, Asha Sathish, P. Senthil Kumar , T. Ramachandran	Desalination and Water Treatment Vo.57, Issue No. 52, pp. 25097-25113 2016	1.383
32	Biosorption of Pb(II), Ni(II) and Cr(VI) ions from aqueous solution using <i>Rhizoclonium tortuosum</i> : Extended application to nickel plating industrial wastewater	S. Suganya, K. Kayalvizhi, P. Senthil Kumar* , A. Saravanan, V. Vinoth Kumar	Desalination and Water Treatment Vo.57, Issue No. 52, pp. 25114-25139 2016	1.383
33	Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga <i>Rhizoclonium hookeri</i> : Adsorption thermodynamics, kinetics and equilibrium studies	S. Suganya, A. Saravanan, P. Senthil Kumar* , M. Yashwanthraj, P. Sundar rajan K. Kayalvizhi	Journal of Water Reuse and Desalination Vol. 7, pp. 214-227 2017	0.688
34	Nano scale zero-valent iron impregnated agricultural waste as an effective biosorbent for the removal of heavy metal ions from wastewater	P. Senthil Kumar* , A. Saravanan, P. Sundar rajan, M. Yashwanthraj	Textiles and Clothing Sustainability Vol.2, Issue No. 3, pp. 1-11 2016	---
35	Green synthesis of novel silver nanocomposite hydrogel based on sodium alginate as an efficient bio-sorbent for the dye wastewater treatment: Prediction of isotherm and kinetic parameters	G. Karthiga Devi, P. Senthil Kumar* , K. Sathish Kumar	Desalination and Water Treatment Vol. 57, Issue No. 57 pp. 27686-27699 2016	1.383
36	Influence of ultrasonication on preparation of novel material for heavy metal removal from water/wastewater	A. Saravanan, P. Senthil Kumar* , P. Sundar rajan, Abishek S Narayan, Abhishek Dutta	Korean Journal of Chemical Engineering Vol. 33, Issue No. 9, pp. 2716-2731 2016	2.199

37	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution	R. Jothirani, P. Senthil Kumar* , A. Saravanan, Abishek S Narayan and Abhishek Dutta	Journal of Industrial and Engineering Chemistry Vol. 39, pp. 162-175 2016	4.841
38	Synthesis and characterization of metallic nanoparticles impregnated onto activated carbon using leaf extract of <i>Mukia maderasapatna</i> : Evaluation of antimicrobial activities	A. Saravanan, P. Senthil Kumar* , G. Karthiga Devi, T. Arumugam	Microbial Pathogenesis Vol. 97, pp. 198-203 and 2016	2.332
39	Review on nano adsorbents: A solution for heavy metal removal from wastewater	T. Vinni Novi, V. Vinoth Kumar, P. Senthil Kumar* , Charles Christy, Sundar Sai Lavanyaa, Dhanya Vishnu, A. Saravanan, V. Vasanth Kumar S. Sivanesan	IET Nanobiotechnology Vol. 11, pp. 213-224 2017	2.059
40	Isolation and Identification of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> from prawn (<i>Penaeus monodon</i>) seafood : Preservation strategies	P.R. Yaashikaa, A. Saravanan, P. Senthil Kumar*	Microbial Pathogenesis Vol. 99, pp. 5-13 2016	2.332
41	Synthesis of nano-sized chitosan blended Polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution	T. Anitha, P. Senthil Kumar* , K. Sathish Kumar	Journal of Water Process Engineering Vol. 13, pp. 127-136 2016	3.173
42	Higher adsorption capacity of <i>Spirulina platensis</i> alga for Cr(VI) ions removal : Parameter optimization,	E. Gunasundari, P. Senthil Kumar*	IET Nanobiotechnology Vol. 11, pp. 317-328 2017	2.059

	equilibrium, kinetic and thermodynamic predictions			
43	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites towards the elimination of arsenic from aqueous solution	Gerard Neeraj, Santhana Krishnan, P. Senthil Kumar , Hubert Cabana, V.Vinoth Kumar	Process Safety and Environmental Protection Vol. 104, pp. 185-195, 2016	3.441
44	Removal of turbidity from washing machine discharge using Strychnos Potatorum seeds: Parameter optimization and mechanism prediction	P. Senthil Kumar* K.N. Vaibhav, Shiv Rekhi, Akshay Thyagarajan	Resource Efficient Technologies , Vol. 2, pp. S171-S176, 2016	---
45	Rediscovery of Crotalaria rigida (Leguminosae)—Rare and endemic legume of Southern India, Tamil Nadu	N. Dhatchanamoorthy T. Arumugam, P. Senthil Kumar	Pytotaxa , Vol. 278, Issue No. 3, pp. 297-300, 2016	1.797
46	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalized magnetic nanoparticles	C. Femina Carolin, A. Saravanan, P. Senthil Kumar* , P. Sundar Rajan, V. Vinoth Kumar	IET Nanobiotechnology Vol. 11, Issue No. 4, pp. 433-442 2017	2.059
47	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review	A. Saravanan, P. Senthil Kumar* M.Yashwanthraj	Desalination and Water Treatment Vol.68, pp. 245-266 2017	1.383
48	Enhanced adsorption capacity of biomass through ultrasonication for the removal of toxic cadmium ions from aquatic system : Temperature influence on isotherms and kinetics	A. Saravanan, P.Senthil Kumar* , C. Femina Carolin, S. Sivanesan	Journal of Hazardous, Toxic, and Radioactive Waste Vol. 21, Issue No. 3, pp. 1-24, 2017	0.74

49	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon	V. Tharaneedhar, P. Senthil Kumar* , A. Saravanan, C. Ravikumar, V. Jaikumar	Sustainable Materials and Technologies Vol.11, pp. 1-11 2017	---
50	HPTLC fingerprint profile, in vitro antioxidant and evaluation of antimicrobial compound produced from <i>Brevibacillus brevis</i> -EGS9 against multidrug resistant <i>Staphylococcus aureus</i>	T. Arumugam, P. Senthil Kumar K.P.Gopinath	Microbial Pathogenesis Vol.102, pp. 166-172 2017	2.332
51	Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Experimental investigation on bio-oil yield and high heating values	C. Ravikumar*, P. Senthil Kumar* , S.K. Subhashni , P.V.Tejaswini, V.Varshini	Sustainable Materials and Technologies Vol.11, pp. 19-27 2017	---
52	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis	S. Suganya, P. Senthil Kumar* , A. Saravanan, P. Sundar Rajan, C. Ravikumar	Environmental Toxicology and Pharmacology Vol.50, pp. 45-57 2017	2.776
53	Antimicrobial activity of <i>Mukia maderasapata</i> stem extract of jujube seeds activated carbon against Gram-positive / Gram-negative bacteria and Fungi strains: Application in heavy metal removal	R. Gayathri, K.P. Gopinath*, P. Senthil Kumar* , A. Saravanan	Desalination and Water Treatment Vol. 72, pp. 418-427 2017	1.383

54	A simplified model for evaluating best biodiesel production method: Fuzzy analytic hierarchy process approach	K. Anish Kumar, P. Senthil Kumar* , Sai Madhusudanan, Vignesh Pasupathy, P.R. Vignesh, A. R. Sankaranarayanan	Sustainable Materials and Technologies Vol.12, pp. 18-22 2017	---
55	Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India	T. Arumugam, P. Senthil Kumar* , R. Kameshwar, K. Prapanchana	Microbial Pathogenesis Vol. 107, pp. 225-233 2017	2.332
56	Sorption of Cu(II) ions by nano-scale zero valent iron supported on rubber seed shell	D. Prabu, R. Parthiban, P. Senthil Kumar* , A. Saravanan, Reni John, Tani Titus	IET Nanobiotechnology Vol. 11, Issue No. 6, pp. 714-724 2017	2.059
57	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye	Gaurav Sharma, Zeid Abdullah ALOthman, Amit Kumar, Shweta Sharma, P. Senthil Kumar , Mu. Naushad	Nanotechnology for Environmental Engineering , Vol. 2 (4), pp. 1-7, 2017	---
58	Modelling and analysis of packed bed column for the effective removal of zinc from aqueous solution using dual surface modified biomass	A. Saravanan, P. Senthil Kumar* , M. Yaswanthraj	Particulate Science and Technology , Vol. 36 (8) pp. 934-944 2018	1.081
59	An insight into the Prediction of Biosorption Mechanism, and Isotherm, Kinetic and Thermodynamic Studies for Ni(II) ions Removal from Aqueous Solution	K. Nithya, Asha Sathish, P. Senthil Kumar , T. Ramachandran	Desalination and Water Treatment Vol. 80, pp. 276-287 2017	1.383

	using Acid Treated Bio-sorbent: the Lantana camara fruit			
60	Construction Of Active Bio-Nanocomposite By Inseminated Metal Nanoparticles Onto Activated Carbon: Probing To Antimicrobial Activity	S. Suganya, P. Senthil Kumar* , A. Saravanan	IET Nanobiotechnology Vol. 11, Issue No. 6, pp. 746-753 2017	2.059
61	Green synthesis of metal nanoparticles loaded ultrasonic assisted <i>Spirulina platensis</i> using algal extract and their antimicrobial activity	E. Gunasundari, P. Senthil Kumar* , C. Femina Carolin, T. Arumugam, A. Saravanan	IET Nanobiotechnology Vol. 11, Issue No. 6, pp. 754-758 2017	2.059
62	Functional group assisted green synthesized superparamagnetic nanoparticles for the rapid removal of hexavalent chromium from aqueous solution	K. Nithya, Asha Sathish, P. Senthil Kumar , T. Ramachandran	IET Nanobiotechnology Vol. 11, Issue No. 7, pp. 852-860 2017	2.059
63	Efficient Techniques for the Removal of Toxic Heavy Metals from Aquatic Environment: A Review	C. Femina Carolin, P. Senthil Kumar* , A. Saravanan, G. Janet Joshiba, Mu. Naushad	Journal of Environmental Chemical Engineering Vol. 5 (3), pp. 2782-2799, 2017	1.428
64	Removal of Toxic Cr(VI) ions from Tannery Industrial Wastewater Using a Newly Designed Three-phase Three-dimensional Electrode Reactor	K. Grace Pavithra, P. Senthil Kumar* , C. Femina Carolin, A. Saravanan	Journal of Physics and Chemistry of Solids Vol. 110, pp. 379-385 2017	2.207

65	Adsorption isotherm, kinetics and thermodynamic analysis of Cu (II) ions onto the dried algal biomass (<i>Spirulina platensis</i>)	E. Gunasundari, P. Senthil Kumar*	Journal of Industrial and Engineering Chemistry Vol. 56, pp. 129-144 2017	4.841
66	A review on analytical methods and treatment techniques of pharmaceutical wastewater	A. Annam Renita, P. Senthil Kumar* , S. Srinivas, S. Priyadharshini, M. Karthika	Desalination and Water Treatment Vol. 87, pp. 160-178 2017	1.383
67	Treatment of Municipal Wastewater using <i>Scenedesmus abundans</i> : Studies on saccharification of grown biomass using ultrasound assistance	T. Siva Kumar, P. Senthil Kumar*	Desalination and Water Treatment Vol. 89, pp. 94-100 2017	1.383
68	Optimization of media components for production of antimicrobial compound by <i>Brevibacillus brevis</i> EGS9 isolated from mangrove ecosystem	T. Arumugam, P. Senthil Kumar* ,	Journal of Microbiological Methods Vol. 142, pp. 83-89 2017	1.701
69	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review	K.Grace Pavithra, P. Senthil Kumar* , P.Sundar Rajan, A. Saravanan, Mu. Naushad	Korean Journal of Chemical Engineering Vol. 34, pp. 2787-2805 2017	2.199
70	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption	A. Saravanan, P. Senthil Kumar* , A. Annam Renita	Journal of Cleaner Production Vol. 172, pp. 92-105 2018	5.651

	capacity for zinc removal			
71	Chitosan as a biosorbent for adsorption of Iron from fracking wastewater	Aditya R. Kaveeshwar, Melanie Sanders, P. Senthil Kumar , Dilip Depan, S. Ramalingam	Polymers for Advanced Technologies Vol. 29, pp. 961-969 2018	2.137
72	Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide nanoparticles for the adsorption of Ni(II) ions	K. Nithya, Asha Sathish, P. Senthil Kumar , T. Ramachandran	Journal of Industrial and Engineering Chemistry Vol. 59, pp. 230-241 2018	4.841
73	Chitosan anchored Zinc Oxide nanocomposite as modified electrochemical sensor for the detection of Cd (II) ions	G. Padmalaya, B.S. Sreeja, P. Senthil Kumar* , M. Arivanandhan	Desalination and Water Treatment Vol. 97, pp. 295-303 2017	1.383
74	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system	P. Senthil Kumar* , R. Sivaranjane, P. Sundar Rajan, A. Saravanan	Journal of Industrial and Engineering Chemistry Vol. 60, pp. 307-320 2018	4.841
75	Influence of ultrasonic waves on preparation of active carbon from coffee waste for the reclamation of effluents containing Cr(VI) ions	S. Suganya, P. Senthil Kumar*	Journal of Industrial and Engineering Chemistry Vol. 60, pp. 418-430 2018	4.841
76	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: kinetic and isotherm modelling	P. Senthil Kumar* , Sunita J. Varjani, S. Suganya	Bioresource Technology Vol. 250, pp. 716-722 2018	5.807

77	Pecan Shell based Activated Carbon for Removal of Iron (II) from Fracking Wastewater: Adsorption Kinetics, Isotherm and Thermodynamic Studies	Aditya Rajeev Kaveeshwar, P. Senthil Kumar , Emmanuel D. Revellame, Daniel D. Gang, Mark E. Zappi, S. Ramalingam*	Process Safety and Environmental Protection Vol. 114, pp. 107-122 2018	3.441
78	Isolation, Structure elucidation and anticancer activity from <i>Brevibacillus brevis</i> EGS 9 that combats Multi Drug Resistant actinobacteria	T. Arumugam, P. Senthil Kumar* , R.V. Hemavathy, V. Swetha, R. Karishma Sri	Microbial Pathogenesis Vol. 115, pp. 146-153 2018	2.332
79	Intensified degradation of pharmaceutical effluents by Novel Aerobic Iron-swarf activated molecular oxygen in the presence of ascorbic acid	S. Nachiappan, P. Senthil Kumar* , K. P. Gopinath, V. Rajinikanth, R. Baskaran, A. Babu Ponnusami	Desalination and Water Treatment Vol. 102, pp. 273-279 2018	1.383
80	Nano-zero valent iron impregnated cashew nut shell: a solution to heavy metal contaminated water / wastewater	P. Senthil Kumar* , Akshaya S Nair, R. Ananya, A. Saravanan	IET Nanobiotechnology Vol. 12 (5), pp. 591-599 2018	2.059
81	Isolation, Characterization and Purification of Xylanase producing Bacteria from Sea Sediment	P. Senthil Kumar* , P.R. Yaashikaa, A. Saravanan	Biocatalysis and Agricultural Biotechnology Vol. 13, pp. 299-303 2018	-----
82	Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemical	G. Manikandana, P. Senthil Kumar,* A. Saravanan	Journal of Industrial and Engineering Chemistry Vol. 62, pp. 446-461 2018	4.841

	ly modified <i>Ceiba pentandra</i> seeds			
83	Theoretical and experimental investigation on the removal of oil spill by selective sorbents	N. Pavithra, R. Abhaiguru, U. Avinash, D. Gnana Prakash, P. Senthil Kumar*	Journal of Industrial and Engineering Chemistry Vol. 63, pp. 1-11 2018	4.841
84	Mass transfer and thermodynamic analysis on the removal of naphthalene from aqueous solution using oleic acid modified palm shell activated carbon	J. Aravind Kumar, D. Joshua Amarnath, P. Senthil Kumar* , C. Sai Kaushik, M. Edwin Varghese, A. Saravanan	Desalination and Water Treatment Vol. 106, pp. 238-250 2018	1.383
85	Kinetic and Thermodynamic analysis for the redemption of effluents containing Solochrome Black T onto Powdered activated carbon: A validation of new Solid-Liquid phase equilibrium model	S.Suganya, P.Senthil Kumar*	Journal of Molecular Liquids Vol. 259, pp. 88-101 2018	4.513
86	Experimental Investigation on Bisphenol A and its Leaching Properties in Various Repositories: Real Time Analysis	V. Vishal, P. Senthil Kumar* , V. Prasanna, B. Sudhan	Desalination and Water Treatment Vol.110, pp. 139-143 2018	1.383
87	Adsorption properties and mechanism of barium (II) and strontium(II) removal from fracking wastewater using pecan shell based activated carbon	A. R. Kaveeshwar, P. Senthil Kumar , E. D. Revellame, D. D. Gang, M. E. Zappi, S. Ramalingam	Journal of Cleaner Production Vol.193, pp. 1-13 2018	5.715

88	Management of printed circuit boards by newly designed thermal pyrolytic process: process optimization by RSM approach	A. Jayapradha, J.AbbasMohaideen, P. Senthil Kumar* , V.Kavitha, G.Narendrakumar	Environmental Progress & Sustainable Energy Vol., 38, Issue No. 2, pp. 489-499, 2019	1.326
89	A rapid method based on computer vision for the analysis of hardness and eutrophication levels in water bodies	G. Sivaranjani, P. Senthil Kumar* , K.P. Gopinath	Desalination and Water Treatment Vol. 123, pp. 52-58 2018	1.383
90	Enhanced adsorption of Cu^{2+} , Ni^{2+} , Cd^{2+} and Zn^{2+} ions onto physico-chemically modified agricultural waste: Kinetics, isotherm and thermodynamic studies	A. Murugesan*, M. Divakaran, P. Senthil Kumar	Desalination and Water Treatment Vol. 122, pp. 176-191 2018	1.383
91	Evaluation of environmental aspects of brew waste-based carbon production and its disposal scenario	S. Suganya, P. Senthil Kumar*	Journal of Cleaner Production Vol. 202, pp. 244-252 2018	5.715
92	Ultrasound intensified saccharification of <i>Chlorella vulgaris</i> , isolated from municipal wastewater	T. Siva Kumar, P. Senthil Kumar*	Desalination and Water Treatment Vol. 131, pp. 187-193 2018	1.383
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121	Facile hydrothermal bio-synthesis of Cellulose Acetate templated CuS nanorods like fibres: Antibacterial, Cytotoxicity effects and DNA cleavage properties against A549 lung cancer cells	T. Manikandan*, G. Padmalaya, S. Mahalakshmi, S. Nivethitha, S. Perumal, P. Pavithran, B.S. Sreeja, P. Senthil Kumar	IET Nanobiotechnology Vol. , Issue No. , pp. 2019	2.059
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