

Ponnusamy Senthil Kumar

List of Publications by Citations

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565
papers

10,623
citations

51
h-index

85
g-index

599
ext. papers

16,045
ext. citations

6.1
avg, IF

7.7
L-index

#	Paper	IF	Citations
565	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2782-2799	6.8	651
564	Adsorption of dye from aqueous solution by cashew nut shell: Studies on equilibrium isotherm, kinetics and thermodynamics of interactions. <i>Desalination</i> , 2010 , 261, 52-60	10.3	545
563	A review on heavy metal pollution, toxicity and remedial measures: Current trends and future perspectives. <i>Journal of Molecular Liquids</i> , 2019 , 290, 111197	6	433
562	Adsorption behavior of nickel(II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design. <i>Chemical Engineering Journal</i> , 2011 , 167, 122-131	14.7	226
561	Removal of colorants from wastewater: A review on sources and treatment strategies. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 75, 1-19	6.3	213
560	A novel detection method for organophosphorus insecticide fenamiphos: Molecularly imprinted electrochemical sensor based on core-shell CoO@MOF-74 nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2021 , 592, 174-185	9.3	168
559	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , 2021 , 296, 126589	10.3	166
558	A review on photochemical, biochemical and electrochemical transformation of CO ₂ into value-added products. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 131-147	7.6	156
557	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. <i>Bioresource Technology</i> , 2019 , 292, 122030	11	133
556	A review on cleaner strategies for chromium industrial wastewater: Present research and future perspective. <i>Journal of Cleaner Production</i> , 2019 , 228, 580-593	10.3	127
555	Thermodynamic and kinetic studies of cadmium adsorption from aqueous solution onto rice husk. <i>Brazilian Journal of Chemical Engineering</i> , 2010 , 27, 347-355	1.7	123
554	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: Kinetic and isotherm modelling. <i>Bioresource Technology</i> , 2018 , 250, 716-722	11	122
553	Novel adsorbent from agricultural waste (cashew NUT shell) for methylene blue dye removal: Optimization by response surface methodology. <i>Water Resources and Industry</i> , 2015 , 11, 64-70	4.5	111
552	Removal of methylene blue dye from aqueous solution by activated carbon prepared from cashew nut shell as a new low-cost adsorbent. <i>Korean Journal of Chemical Engineering</i> , 2011 , 28, 149-155	2.8	110
551	Removal of toxic pollutants from water environment by phytoremediation: A survey on application and future prospects. <i>Environmental Technology and Innovation</i> , 2019 , 13, 264-276	7	106
550	A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124413	12.8	104
549	Removal of cadmium(II) from aqueous solution by agricultural waste cashew nut shell. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 756-768	2.8	93

548	Adsorption isotherm, kinetics and thermodynamic analysis of Cu(II) ions onto the dried algal biomass (<i>Spirulina platensis</i>). <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 56, 129-144	6.3	92
547	A critical review on the biochar production techniques, characterization, stability and applications for circular bioeconomy. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 28, e00570	5.3	91
546	Kinetics and equilibrium studies of Pb ²⁺ in removal from aqueous solutions by use of nano-silversol-coated activated carbon. <i>Brazilian Journal of Chemical Engineering</i> , 2010 , 27, 339-346	1.7	88
545	Performance study on sequestration of copper ions from contaminated water using newly synthesized high effective chitosan coated magnetic nanoparticles. <i>Journal of Molecular Liquids</i> , 2016 , 214, 335-346	6	85
544	A review on biosynthesis of metal nanoparticles and its environmental applications. <i>Chemosphere</i> , 2021 , 264, 128580	8.4	82
543	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal. <i>Journal of Cleaner Production</i> , 2018 , 172, 92-105	10.3	80
542	Pecan shell based activated carbon for removal of iron(II) from fracking wastewater: Adsorption kinetics, isotherm and thermodynamic studies. <i>Chemical Engineering Research and Design</i> , 2018 , 114, 107-122	5.5	79
541	Synthesis of nano-sized chitosan blended polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution. <i>Journal of Water Process Engineering</i> , 2016 , 13, 127-136	6.7	79
540	Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide nanoparticles for the adsorption of Ni(II) ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 59, 230-241	6.3	76
539	Characteristics of thermodynamic, isotherm, kinetic, mechanism and design equations for the analysis of adsorption in Cd(II) ions-surface modified Eucalyptus seeds system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 2957-2968	5.3	76
538	Influence of ultrasonic waves on preparation of active carbon from coffee waste for the reclamation of effluents containing Cr(VI) ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 60, 418-430	6.3	75
537	Adsorption properties and mechanism of barium (II) and strontium (II) removal from fracking wastewater using pecan shell based activated carbon. <i>Journal of Cleaner Production</i> , 2018 , 193, 1-13	10.3	73
536	EFFECT OF TEMPERATURE ON THE ADSORPTION OF METHYLENE BLUE DYE ONTO SULFURIC ACID-TREATED ORANGE PEEL. <i>Chemical Engineering Communications</i> , 2014 , 201, 1526-1547	2.2	71
535	Adsorption of basic dye onto raw and surface-modified agricultural waste. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 87-98	2.5	70
534	Adsorption kinetics, mechanism, isotherm, and thermodynamic analysis of copper ions onto the surface modified agricultural waste. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 28-37	2.5	68
533	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis. <i>Environmental Toxicology and Pharmacology</i> , 2017 , 50, 45-57	5.8	67
532	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon. <i>Sustainable Materials and Technologies</i> , 2017 , 11, 1-11	5.3	67
531	A review on contamination and removal of sulfamethoxazole from aqueous solution using cleaner techniques: Present and future perspective. <i>Journal of Cleaner Production</i> , 2020 , 250, 119553	10.3	65

530	Adsorption of Metal Ions onto the Chemically Modified Agricultural Waste. <i>Clean - Soil, Air, Water</i> , 2012 , 40, 188-197	1.6	64
529	Preparation and characterization of porous cross linked laccase aggregates for the decolorization of triphenyl methane and reactive dyes. <i>Bioresource Technology</i> , 2012 , 119, 28-34	11	64
528	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosan-polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach. <i>Chemical Engineering Research and Design</i> , 2015 , 98, 187-197	5.5	63
527	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 39, 162-175	6.3	63
526	Management of Chromium Plating Rinsewater Using Electrochemical Ion Exchange. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 2279-2286	3.9	61
525	Adsorption of dye onto raw and surface modified tamarind seeds: isotherms, process design, kinetics and mechanism. <i>Desalination and Water Treatment</i> , 2014 , 52, 2620-2633		60
524	Lead(II) Adsorption onto Sulphuric Acid Treated Cashew Nut Shell. <i>Separation Science and Technology</i> , 2011 , 46, 2436-2449	2.5	60
523	Enhanced adsorptive removal of sulfamethoxazole from water using biochar derived from hydrothermal carbonization of sugarcane bagasse. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124825	12.8	60
522	Effective water/wastewater treatment methodologies for toxic pollutants removal: Processes and applications towards sustainable development. <i>Chemosphere</i> , 2021 , 280, 130595	8.4	60
521	Adsorption behavior of methylene blue dye onto surface modified Strychnos potatorum seeds. <i>Environmental Progress and Sustainable Energy</i> , 2013 , 32, 624-632	2.5	58
520	Adsorption of methylene blue dye from aqueous solution by agricultural waste: Equilibrium, thermodynamics, kinetics, mechanism and process design. <i>Colloid Journal</i> , 2011 , 73, 651-661	1.1	58
519	Application of adsorption process for effective removal of emerging contaminants from water and wastewater. <i>Environmental Pollution</i> , 2021 , 280, 116995	9.3	56
518	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. <i>Fuel</i> , 2022 , 307, 121782	7.1	56
517	Adsorption isotherms, kinetics and mechanism of Pb(II) ions removal from aqueous solution using chemically modified agricultural waste. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 1950-1956	2.3	55
516	Binding of Zn(II) ions to chitosan-PVA blend in aqueous environment: Adsorption kinetics and equilibrium studies. <i>Environmental Progress and Sustainable Energy</i> , 2015 , 34, 15-22	2.5	53
515	Application of silk sericin to polyester fabric. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 314-321	2.9	53
514	Review on nanoadsorbents: a solution for heavy metal removal from wastewater. <i>IET Nanobiotechnology</i> , 2017 , 11, 213-224	2	51
513	A critical review on recent developments in the low-cost adsorption of dyes from wastewater	172, 395-416	51

512	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 60, 307-320	6.3	51
511	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye. <i>Nanotechnology for Environmental Engineering</i> , 2017 , 2, 1	5.1	49
510	Adsorption of lead(II) ions from simulated wastewater using natural waste: A kinetic, thermodynamic and equilibrium study. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 55-64	2.5	49
509	Conversion of green algal biomass into bioenergy by pyrolysis. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 829-849	13.3	48
508	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution. <i>Chemical Engineering Research and Design</i> , 2016 , 104, 185-195	5.5	48
507	Adsorptive separation of Cu(II) ions from aqueous medium using thermally/chemically treated <i>Cassia fistula</i> based biochar. <i>Journal of Cleaner Production</i> , 2020 , 249, 119390	10.3	48
506	A review on algal-bacterial symbiotic system for effective treatment of wastewater. <i>Chemosphere</i> , 2021 , 271, 129540	8.4	47
505	Modelling on the removal of toxic metal ions from aquatic system by different surface modified <i>Cassia fistula</i> seeds. <i>Bioresource Technology</i> , 2019 , 281, 1-9	11	43
504	Experimental study on the performance and emission measures of direct injection diesel engine with Kapok methyl ester and its blends. <i>Renewable Energy</i> , 2015 , 74, 903-909	8.1	43
503	Removal of toxic Cr(VI) ions from tannery industrial wastewater using a newly designed three-phase three-dimensional electrode reactor. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 110, 379-385	3.9	43
502	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review	68, 245-266	43
501	Photocatalysis for removal of environmental pollutants and fuel production: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 441-463	13.3	42
500	A comprehensive review on different approaches for CO ₂ utilization and conversion pathways. <i>Chemical Engineering Science</i> , 2021 , 236, 116515	4.4	41
499	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection.. <i>Food and Chemical Toxicology</i> , 2022 , 112961	4.7	40
498	Performance of montmorillonite/graphene oxide/CoFe ₂ O ₄ as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater. <i>Advanced Powder Technology</i> , 2020 , 31, 3993-4004	4.6	39
497	Bioconversion of municipal solid waste into bio-based products: A review on valorisation and sustainable approach for circular bioeconomy. <i>Science of the Total Environment</i> , 2020 , 748, 141312	10.2	39
496	Adsorption characteristics of magnetic nanoparticles coated mixed fungal biomass for toxic Cr(VI) ions in aquatic environment. <i>Chemosphere</i> , 2021 , 267, 129226	8.4	39
495	Critical review on hazardous pollutants in water environment: Occurrence, monitoring, fate, removal technologies and risk assessment. <i>Science of the Total Environment</i> , 2021 , 797, 149134	10.2	39

494	Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Experimental investigation on bio-oil yield and high heating values. <i>Sustainable Materials and Technologies</i> , 2017 , 11, 19-27	5.3	38
493	Microalgae for biofuel production and removal of heavy metals: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1905-1923	13.3	36
492	Adsorption of copper ions onto nano-scale zero-valent iron impregnated cashew nut shell. <i>Desalination and Water Treatment</i> , 2016 , 57, 6487-6502		35
491	Recent advancements in rapid analysis of pesticides using nano biosensors: A present and future perspective. <i>Journal of Cleaner Production</i> , 2020 , 269, 122356	10.3	35
490	Ultrasonic-assisted synthesis of Populus alba activated carbon for water defluorination: Application for real wastewater. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1595-1603	2.8	34
489	Production of optically pure lactic acid by microbial fermentation: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 539-556	13.3	34
488	A review on new aspects of lipopeptide biosurfactant: Types, production, properties and its application in the bioremediation process. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124827	12.8	33
487	Statistical analysis of adsorption isotherm models and its appropriate selection. <i>Chemosphere</i> , 2021 , 276, 130176	8.4	32
486	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. <i>Chemosphere</i> , 2021 , 274, 129734	8.4	30
485	Adsorptive separation of toxic metals from aquatic environment using agro waste biochar: Application in electroplating industrial wastewater. <i>Chemosphere</i> , 2021 , 262, 128031	8.4	30
484	Investigation of magnetic silica nanocomposite immobilized Pseudomonas fluorescens as a biosorbent for the effective sequestration of Rhodamine B from aqueous systems. <i>Environmental Pollution</i> , 2021 , 269, 116173	9.3	30
483	Methods of detection of food-borne pathogens: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 189-207	13.3	30
482	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126451	12.8	30
481	Enhanced Zn(II) ion adsorption on surface modified mixed biomass [Borassus flabellifer and Aspergillus tamarii: Equilibrium, kinetics and thermodynamics study. <i>Industrial Crops and Products</i> , 2020 , 153, 112613	5.9	29
480	Sustainable wastewater treatments in textile sector 2017 , 323-346		29
479	Food preservation techniques and nanotechnology for increased shelf life of fruits, vegetables, beverages and spices: a review. <i>Environmental Chemistry Letters</i> , 2020 , 19, 1-21	13.3	29
478	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalised magnetic nanoparticles. <i>IET Nanobiotechnology</i> , 2017 , 11, 433-442	2	28
477	Rhizoremediation [A promising tool for the removal of soil contaminants: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103543	6.8	28

476	Techniques of lipid extraction from microalgae for biofuel production: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 231-251	13.3	28
475	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 2787-2805	2.8	27
474	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. <i>Journal of Molecular Liquids</i> , 2018 , 259, 88-101	6	27
473	One pot Green Synthesis of Nano magnesium oxide-carbon composite: Preparation, characterization and application towards anthracene adsorption. <i>Journal of Cleaner Production</i> , 2019 , 237, 117691	10.3	27
472	Sorption of Cu(II) ions by nano-scale zero valent iron supported on rubber seed shell. <i>IET Nanobiotechnology</i> , 2017 , 11, 714-724	2	27
471	Adsorption of Cu(II) ions by modified horn core: Effect of temperature on adsorbent preparation and extended application in river water. <i>Journal of Molecular Liquids</i> , 2020 , 298, 112023	6	27
470	Packed bed column optimization and modeling studies for removal of chromium ions using chemically modified Lantana camara adsorbent. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101069	6.7	27
469	Synthesis, antimicrobial and cytotoxic evaluation of spirooxindole[pyrano-bis-2H-l-benzopyrans]. <i>Medicinal Chemistry Research</i> , 2016 , 25, 2155-2170	2.2	27
468	Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (<i>Pseudomonas stutzeri</i> and acid treated Banyan tree bark). <i>Journal of Molecular Liquids</i> , 2019 , 276, 362-370	6	27
467	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16734-16750	6.7	27
466	Conversion of waste plastics into low-emissive hydrocarbon fuels through catalytic depolymerization in a new laboratory scale batch reactor. <i>International Journal of Energy and Environmental Engineering</i> , 2017 , 8, 167-173	4	26
465	Removal of fluoride from aqueous media by magnesium oxide-coated nanoparticles. <i>Desalination and Water Treatment</i> , 2015 , 53, 2905-2914		26
464	Construction of active bio-nanocomposite by inseminated metal nanoparticles onto activated carbon: probing to antimicrobial activity. <i>IET Nanobiotechnology</i> , 2017 , 11, 746-753	2	25
463	A review on systematic approach for microbial enhanced oil recovery technologies: Opportunities and challenges. <i>Journal of Cleaner Production</i> , 2020 , 258, 120777	10.3	25
462	Higher adsorption capacity of alga for Cr(VI) ions removal: parameter optimisation, equilibrium, kinetic and thermodynamic predictions. <i>IET Nanobiotechnology</i> , 2017 , 11, 317-328	2	25
461	A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal. <i>Environmental Research</i> , 2021 , 196, 110996	7.9	25
460	Removal of toxic zinc from water/wastewater using eucalyptus seeds activated carbon: non-linear regression analysis. <i>IET Nanobiotechnology</i> , 2016 , 10, 244-53	2	25
459	Sustainable approaches for removing Rhodamine B dye using agricultural waste adsorbents: A review. <i>Chemosphere</i> , 2022 , 287, 132080	8.4	25

458	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	25
457	Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga <i>Rhizoclonium hookeri</i> : adsorption thermodynamics, kinetics, and equilibrium studies. <i>Journal of Water Reuse and Desalination</i> , 2017 , 7, 214-227	2.6	23
456	Synthesis and characterization of metallic nanoparticles impregnated onto activated carbon using leaf extract of <i>Mukia maderasapatna</i> : Evaluation of antimicrobial activities. <i>Microbial Pathogenesis</i> , 2016 , 97, 198-203	3.8	23
455	Treatment of fluoride-contaminated water. A review. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1707-1726	13.3	23
454	Optimization and modeling of reactive yellow adsorption by surface modified <i>Delonix regia</i> seed: Study of nonlinear isotherm and kinetic parameters. <i>Surfaces and Interfaces</i> , 2020 , 20, 100520	4.1	23
453	Techniques and modeling of polyphenol extraction from food: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1-35	13.3	23
452	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. <i>Chemosphere</i> , 2021 , 271, 129519	8.4	23
451	Recent developments in photocatalytic remediation of textile effluent using semiconductor based nanostructured catalyst: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104881	6.8	23
450	Sustainable approach to decolourize methyl orange dye from aqueous solution using novel bacterial strain and its metabolites characterization. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 173-181	4.3	23
449	Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified <i>Ceiba pentandra</i> seeds. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 62, 446-461	6.3	22
448	Influence of ultrasonication on preparation of novel material for heavy metal removal from wastewater. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2716-2731	2.8	22
447	Kinetics, mechanism, isotherm and thermodynamic analysis of adsorption of cadmium ions by surface-modified <i>Strychnos potatorum</i> seeds. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 1752-1760	2.8	22
446	An effective separation of toxic arsenic from aquatic environment using electrochemical ion exchange process. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125240	12.8	22
445	Investigating the prospects of bacterial biosurfactants for metal nanoparticle synthesis - a comprehensive review. <i>IET Nanobiotechnology</i> , 2019 , 13, 243-249	2	22
444	Optimization of process parameters for the removal of chromium(VI) and nickel(II) from aqueous solutions by mixed biosorbents (custard apple seeds and <i>Aspergillus niger</i>) using response surface methodology. <i>Desalination and Water Treatment</i> , 2016 , 57, 14530-14543		21
443	Mixed biosorbent of agro waste and bacterial biomass for the separation of Pb(II) ions from water system. <i>Chemosphere</i> , 2021 , 277, 130236	8.4	21
442	A review on sources, identification and treatment strategies for the removal of toxic Arsenic from water system. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126299	12.8	21
441	A review on adsorptive separation of toxic metals from aquatic system using biochar produced from agro-waste. <i>Chemosphere</i> , 2021 , 285, 131438	8.4	21

440	Phytoremediation of Cr(VI) ion contaminated soil using Black gram (<i>Vigna mungo</i>): Assessment of removal capacity. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103052	6.8	20
439	Redemption of acid fuchsin dye from wastewater using de-oiled biomass: Kinetics and isotherm analysis. <i>Bioresource Technology Reports</i> , 2019 , 7, 100300	4.1	20
438	Recovery and reuse of hexavalent chromium from aqueous solutions by a hybrid technique of electro dialysis and ion exchange. <i>Brazilian Journal of Chemical Engineering</i> , 2010 , 27, 71-78	1.7	20
437	A review on analytical methods and treatment techniques of pharmaceutical wastewater ⁸⁷ , 160-178		20
436	Surface modified polymer-magnetic-algae nanocomposite for the removal of chromium-equilibrium and mechanism studies. <i>Environmental Research</i> , 2021 , 201, 111626	7.9	20
435	Optical, electrical, mechanical, and thermal properties and non-isothermal decomposition behavior of poly(vinyl alcohol)/ZnO nanocomposites. <i>Iranian Polymer Journal (English Edition)</i> , 2020 , 29, 411-422	2.3	19
434	Sustainable adsorbents for the removal of pesticides from water: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2425-2463	13.3	19
433	Conversion of food waste to energy: A focus on sustainability and life cycle assessment. <i>Fuel</i> , 2021 , 302, 121069	7.1	19
432	Green synthesis of metal nanoparticles loaded ultrasonic-assisted <i>Spirulina platensis</i> using algal extract and their antimicrobial activity. <i>IET Nanobiotechnology</i> , 2017 , 11, 754-758	2	18
431	Characterization techniques for nanomaterials 2019 , 97-124		18
430	Investigation on environmental factors of waste plastics into oil and its emulsion to control the emission in DI diesel engine. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 134, 440-444	7	18
429	Valorization of agro-industrial wastes for biorefinery process and circular bioeconomy: A critical review. <i>Bioresource Technology</i> , 2022 , 343, 126126	11	18
428	Chitosan as a biosorbent for adsorption of iron (II) from fracking wastewater. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 961-969	3.2	18
427	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. <i>Bioresource Technology</i> , 2021 , 334, 125240	11	18
426	Recent technologies for nutrient removal and recovery from wastewaters: A review. <i>Chemosphere</i> , 2021 , 277, 130328	8.4	18
425	Effective adsorption of Cu(II) ions on sustainable adsorbent derived from mixed biomass (<i>Aspergillus campestris</i> and agro waste): Optimization, isotherm and kinetics study. <i>Groundwater for Sustainable Development</i> , 2020 , 11, 100460	6	17
424	Microbial degradation of recalcitrant pesticides: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3209-3228	13.3	17
423	Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using <i>Casuarina equisetifolia</i> pines. <i>Chemosphere</i> , 2021 , 285, 131480	8.4	17

4 ²²	Occurrence and removal of antibiotics from industrial wastewater. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1477-1507	13.3	17
4 ²¹	A review on bioremediation approach for heavy metal detoxification and accumulation in plants.. <i>Environmental Pollution</i> , 2022 , 301, 119035	9.3	17
4 ²⁰	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. <i>Desalination and Water Treatment</i> , 2016 , 57, 25114-25139		16
4 ¹⁹	Ultrasonic-assisted activated biomass (fishtail palm <i>Caryota urens</i> seeds) for the sequestration of copper ions from wastewater. <i>Research on Chemical Intermediates</i> , 2016 , 42, 3117-3146	2.8	16
4 ¹⁸	Removal of Hexavalent Chromium Ions from Aqueous Solutions by an Anion-Exchange Resin. <i>Adsorption Science and Technology</i> , 2008 , 26, 693-703	3.6	16
4 ¹⁷	The war using microbes: A sustainable approach for wastewater management. <i>Environmental Pollution</i> , 2021 , 275, 116598	9.3	16
4 ¹⁶	Effective removal of Cr(VI) ions from synthetic solution using mixed biomasses: Kinetic, equilibrium and thermodynamic study. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101905	6.7	16
4 ¹⁵	A review on cleaner approach for effective separation of toxic pollutants from wastewater using carbon Spheres as adsorbent: Preparation, activation and applications. <i>Journal of Cleaner Production</i> , 2021 , 291, 125911	10.3	16
4 ¹⁴	A review on remedial measures for effective separation of emerging contaminants from wastewater. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101741	7	16
4 ¹³	Annealing temperature effect on cobalt ferrite nanoparticles for photocatalytic degradation. <i>Chemosphere</i> , 2021 , 281, 130903	8.4	16
4 ¹²	Analysis on the removal of emerging contaminant from aqueous solution using biochar derived from soap nut seeds. <i>Environmental Pollution</i> , 2021 , 287, 117632	9.3	16
4 ¹¹	Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review. <i>Environmental Research</i> , 2022 , 204, 111916	7.9	16
4 ¹⁰	Enhanced Adsorption Capacity of Biomass through Ultrasonication for the Removal of Toxic Cadmium Ions from Aquatic System: Temperature Influence on Isotherms and Kinetics. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2017 , 21, 04017004	2.3	15
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