

# Ponnusamy Senthil Kumar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Removal of volatile organic carbon and heavy metals through microbial approach <b>2022</b> , 285-308		
564	Chemical, physical and biological methods to convert lignocellulosic waste into value-added products. A review. <i>Environmental Chemistry Letters</i> , <b>2022</b> , 20, 1129	13.3	11
563	Green synthesis of ZrO nanoparticles and nanocomposites for biomedical and environmental applications: a review.. <i>Environmental Chemistry Letters</i> , <b>2022</b> , 1-23	13.3	9
562	Hydrothermal Carbonization of Waste Sugarcane Bagasse for the Effective Removal of Emerging Contaminants from Aqueous Solution. <i>Adsorption Science and Technology</i> , <b>2022</b> , 2022, 1-13	3.6	0
561	Tribological Properties of Carbon Nanotube and Carbon Nanofiber Blended Polyvinylidene Fluoride Sheets Laminated on Steel Substrates. <i>International Journal of Chemical Engineering</i> , <b>2022</b> , 2022, 1-6	2.2	1
560	Invasive plants as biosorbents for environmental remediation: a review.. <i>Environmental Chemistry Letters</i> , <b>2022</b> , 20, 1-31	13.3	2
559	Microalgae as a potential sustainable solution to environment health.. <i>Chemosphere</i> , <b>2022</b> , 133740	8.4	
558	New analytical strategies amplified with carbon-based nanomaterial for sensing food pollutants.. <i>Chemosphere</i> , <b>2022</b> , 295, 133847	8.4	4
557	Degradation of toxic agrochemicals and pharmaceutical pollutants: Effective and alternative approaches toward photocatalysis.. <i>Environmental Pollution</i> , <b>2022</b> , 298, 118844	9.3	5
556	Paper-based microfluidic colorimetric sensor on a 3D printed support for quantitative detection of nitrite in aquatic environments.. <i>Environmental Research</i> , <b>2022</b> , 208, 112745	7.9	4
555	Carbon nanomaterials and its applications in pharmaceuticals: A brief review.. <i>Chemosphere</i> , <b>2022</b> , 294, 133731	8.4	5
554	The role of sodium dodecyl sulfate mediated hydrothermal synthesis of MoS nanosheets for photocatalytic dye degradation and dye-sensitized solar cell application.. <i>Chemosphere</i> , <b>2022</b> , 294, 133725	8.4	1
553	Scheelite-type Fe substituted SrWO <sub>4</sub> for hydrogen evolution reaction under alkaline conditions. <i>Fuel</i> , <b>2022</b> , 316, 123309	7.1	0
552	Analysis and prediction of water quality using deep learning and auto deep learning techniques.. <i>Science of the Total Environment</i> , <b>2022</b> , 153311	10.2	4
551	Electrochemical sensing system for the analysis of emerging contaminants in aquatic environment: A review.. <i>Chemosphere</i> , <b>2022</b> , 294, 133779	8.4	14
550	Bio-derived catalysts for production of biodiesel: A review on feedstock, oil extraction methodologies, reactors and lifecycle assessment of biodiesel. <i>Fuel</i> , <b>2022</b> , 316, 123379	7.1	7
549	A critical review on the two-stage biohythane production and its viability as a renewable fuel. <i>Fuel</i> , <b>2022</b> , 317, 123449	7.1	1

548	A review on removal strategies of microorganisms from water environment using nanomaterials and their behavioural characteristics.. <i>Chemosphere</i> , <b>2022</b> , 295, 133915	8.4	2
547	Facile preparation and characterization of MXene@Platinum nanocomposite for energy conversion applications. <i>Fuel</i> , <b>2022</b> , 317, 123493	7.1	1
546	Process amelioration for production of biohydrogen using mutated Rhodobacter M 19 and Enterobacter aerogenesco-culture: Influence of nanoparticles. <i>Fuel</i> , <b>2022</b> , 317, 123558	7.1	1
545	Applicability of bio-synthesized nanoparticles in fungal secondary metabolites products and plant extracts for eliminating antibiotic-resistant bacteria risks in non-clinical environments.. <i>Environmental Research</i> , <b>2022</b> , 209, 112831	7.9	5
544	Sustainability assessment of third-generation biofuels <b>2022</b> , 523-534		0
543	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 25, 102114	7	6
542	Transformation of aqueous methyl orange to green metabolites using bacterial strains isolated from textile industry effluent. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 25, 102126	7	4
541	Green technology for sustainable surface protection of steel from corrosion: a review. <i>Environmental Chemistry Letters</i> , <b>2022</b> , 20, 929	13.3	2
540	V-Ag doped ZnO nanorod as high-performance electrode material for supercapacitors with enhanced specific capacitance and cycling stability. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 178, 356-368	5.5	2
539	Identification and sequencing of bacteria from crop field: Application of bacteria Agro-waste biosorbent for rapid pesticide removal. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 25, 102116	7	2
538	Polyvinylpyrrolidone-assisted novel copper antimony sulfide nanorods for highly efficient hydrogen evolution reaction. <i>Fuel</i> , <b>2022</b> , 314, 123096	7.1	1
537	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126203	11	14
536	Valorization of agro-industrial wastes for biorefinery process and circular bioeconomy: A critical review. <i>Bioresource Technology</i> , <b>2022</b> , 343, 126126	11	18
535	Soil Bioremediation Techniques <b>2022</b> , 195-210		
534	Impact of compression ratio on combustion behavior of hydrogen enriched biogas-diesel operated CI engine. <i>Fuel</i> , <b>2022</b> , 310, 122321	7.1	2
533	A comprehensive insight from microalgae production process to characterization of biofuel for the sustainable energy. <i>Fuel</i> , <b>2022</b> , 310, 122320	7.1	8
532	Gadolinium doped CeO2 for efficient oxygen and hydrogen evolution reaction. <i>Fuel</i> , <b>2022</b> , 310, 122319	7.1	3
531	Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review. <i>Environmental Research</i> , <b>2022</b> , 204, 111916	7.9	16

530	Sustainable approaches for removing Rhodamine B dye using agricultural waste adsorbents: A review. <i>Chemosphere</i> , <b>2022</b> , 287, 132080	8.4	25
529	Target-receptive structural switching of ssDNA as selective and sensitive biosensor for subsequent detection of toxic Pb and organophosphorus pesticide. <i>Chemosphere</i> , <b>2022</b> , 287, 132163	8.4	4
528	Understanding the factors affecting adsorption of pharmaceuticals on different adsorbents - A critical literature update. <i>Chemosphere</i> , <b>2022</b> , 287, 131958	8.4	3
527	Elimination of rhodamine B from textile wastewater using nanoparticle photocatalysts: A review for sustainable approaches. <i>Chemosphere</i> , <b>2022</b> , 287, 132162	8.4	12
526	Current advances in microbial fuel cell technology toward removal of organic contaminants - A review. <i>Chemosphere</i> , <b>2022</b> , 287, 132186	8.4	8
525	A review on recent advancements in recovery of valuable and toxic metals from e-waste using bioleaching approach. <i>Chemosphere</i> , <b>2022</b> , 287, 132230	8.4	13
524	Feasibility of magnetic nano adsorbent impregnated with activated carbon from animal bone waste: Application for the chromium (VI) removal. <i>Environmental Research</i> , <b>2022</b> , 203, 111813	7.9	9
523	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. <i>Fuel</i> , <b>2022</b> , 307, 121782	7.1	56
522	Acetaminophen degradation using bacterial strains isolated from winogradsky column and phytotoxicity analysis of dump site soil. <i>Chemosphere</i> , <b>2022</b> , 286, 131570	8.4	2
521	Facile single-step synthesis of MXene@CNTs hybrid nanocomposite by CVD method to remove hazardous pollutants. <i>Chemosphere</i> , <b>2022</b> , 286, 131733	8.4	7
520	Rapid removal of chloramphenicol via the synergy of Geobacter and metal oxide nanoparticles. <i>Chemosphere</i> , <b>2022</b> , 286, 131943	8.4	1
519	Flower like strontium molybdate for efficient energy conversion applications. <i>Fuel</i> , <b>2022</b> , 308, 122051	7.1	1
518	Highly crystalline cotton spinning wastes utilization: Pretreatment, optimized hydrolysis and fermentation using <i>Pleurotus florida</i> for bioethanol production. <i>Fuel</i> , <b>2022</b> , 308, 122052	7.1	7
517	Treatment of textile wastewater containing mixed toxic azo dye and chromium (VI) BY haloalkaliphilic bacterial consortium. <i>Chemosphere</i> , <b>2022</b> , 287, 132280	8.4	4
516	Biological approach in deinking of waste paper using bacterial cellulase as an effective enzyme catalyst. <i>Chemosphere</i> , <b>2022</b> , 287, 132088	8.4	2
515	Recent advancements in the removal/recovery of toxic metals from aquatic system using flotation techniques. <i>Chemosphere</i> , <b>2022</b> , 287, 132231	8.4	4
514	Characterization of biofilm formation and reduction of hexavalent chromium by bacteria isolated from tannery sludge. <i>Chemosphere</i> , <b>2022</b> , 286, 131795	8.4	5
513	Recent advancements in microbial fuel cells: A review on its electron transfer mechanisms, microbial community, types of substrates and design for bio-electrochemical treatment. <i>Chemosphere</i> , <b>2022</b> , 286, 131856	8.4	14

512	Application of a novel nanocomposite containing micro-nutrient solubilizing bacterial strains and CeO nanocomposite as bio-fertilizer. <i>Chemosphere</i> , <b>2022</b> , 286, 131800	8.4	3
511	A review on recent trends in the removal of emerging contaminants from aquatic environment using low-cost adsorbents. <i>Chemosphere</i> , <b>2022</b> , 287, 132270	8.4	13
510	Alizarin-graphene nanocomposite for calibration-free and online pH monitoring of microbial fuel cell. <i>Chemosphere</i> , <b>2022</b> , 287, 132277	8.4	
509	A case study of flood frequency analysis by intercomparison of graphical linear log-regression method and Gumbel's analytical method in the Vaigai river basin of Tamil Nadu, India. <i>Chemosphere</i> , <b>2022</b> , 286, 131571	8.4	0
508	Novel synthesis of fluorescent carbon dots from bio-based Carica Papaya Leaves: Optical and structural properties with antioxidant and anti-inflammatory activities. <i>Environmental Research</i> , <b>2022</b> , 204, 111854	7.9	10
507	One-Step Fabrication of Amino-Functionalized Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Core-Shell Magnetic Nanoparticles as a Potential Novel Platform for Removal of Cadmium (II) from Aqueous Solution. <i>Sustainability</i> , <b>2022</b> , 14, 2290	3.6	0
506	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection.. <i>Food and Chemical Toxicology</i> , <b>2022</b> , 112961	4.7	40
505	A review on bioremediation approach for heavy metal detoxification and accumulation in plants.. <i>Environmental Pollution</i> , <b>2022</b> , 301, 119035	9.3	17
504	Functionalization of MXene-based nanomaterials for the treatment of micropollutants in aquatic system: A review.. <i>Environmental Pollution</i> , <b>2022</b> , 301, 119034	9.3	5
503	Mycoremediation of lignocellulosic biorefinery sludge: A reinvigorating approach for organic contaminants remediation with simultaneous production of lignocellulolytic enzyme cocktail.. <i>Bioresource Technology</i> , <b>2022</b> , 351, 127012	11	1
502	Synthesis, Computational and cytotoxicity studies of aryl hydrazones of Ediketones: Selective Ni metal Responsive fluorescent chemosensors.. <i>Chemosphere</i> , <b>2022</b> , 134150	8.4	4
501	Visible light stimulated binary nanostructure and defect enriched TiO <sub>2</sub> -SnO <sub>2</sub> for photocatalysis and antibacterial activity. <i>Materials Letters</i> , <b>2022</b> , 316, 131998	3.3	0
500	Bench scale production of methanol from crude glycerol (1,2,3-Propanetriol) using Zirconium loaded fluorine doped tin oxide. <i>Fuel</i> , <b>2022</b> , 318, 123650	7.1	0
499	Potential pre-treatment of lignocellulosic biomass for the enhancement of biomethane production through anaerobic digestion- A review. <i>Fuel</i> , <b>2022</b> , 318, 123593	7.1	3
498	Investigation on future perspectives of ex-situ biogenic methane generation from solid waste coal and coal washery rejects. <i>Fuel</i> , <b>2022</b> , 318, 123497	7.1	0
497	Detection and identification of hazardous organic pollutants from distillery wastewater by GC-MS analysis and its phytotoxicity and genotoxicity evaluation by using Allium cepa and Cicer arietinum L.. <i>Chemosphere</i> , <b>2022</b> , 297, 134123	8.4	0
496	Algal biofuels: Technological perspective on cultivation, fuel extraction and engineering genetic pathway for enhancing productivity. <i>Fuel</i> , <b>2022</b> , 320, 123814	7.1	2
495	Enhanced methane production by granular activated carbon: A review. <i>Fuel</i> , <b>2022</b> , 320, 123903	7.1	0

494	Advances in the application of immobilized enzyme for the remediation of hazardous pollutant: A review.. <i>Chemosphere</i> , <b>2022</b> , 299, 134390	8.4	2
493	Development of lab-on-chip biosensor for the detection of toxic heavy metals: A review.. <i>Chemosphere</i> , <b>2022</b> , 134427	8.4	1
492	Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review.. <i>Chemosphere</i> , <b>2022</b> , 298, 134284	8.4	2
491	Advancements on sustainable microbial fuel cells and their future prospects: A review.. <i>Environmental Research</i> , <b>2022</b> , 112930	7.9	1
490	Removal of toxic heavy metals using genetically engineered microbes: Molecular tools, risk assessment and management strategies.. <i>Chemosphere</i> , <b>2022</b> , 134341	8.4	3
489	Facile hydrothermal synthesis of MXene@antimony nanoneedle composites for toxic pollutants removal.. <i>Environmental Research</i> , <b>2022</b> , 112904	7.9	1
488	Surfactant induced copper vanadate (ECuVO, CuVO) for different textile dyes degradation.. <i>Environmental Research</i> , <b>2022</b> , 112964	7.9	0
487	Novel cobalt doped hafnium oxide/reduced graphene oxide nanosphere composite materials exhibit superior supercapacitor performance and long cyclic stability. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102167	4.7	1
486	Review on biopolymers and composites - Evolving material as adsorbents in removal of environmental pollutants.. <i>Environmental Research</i> , <b>2022</b> , 212, 113114	7.9	7
485	Halides and oxyhalides-based photocatalysts for abatement of organic water contaminants - An overview.. <i>Environmental Research</i> , <b>2022</b> , 113149	7.9	1
484	Ultrasonic Functionalized Egg Shell Powder for the Adsorption of Cationic Dye: Equilibrium and Kinetic Studies. <i>Adsorption Science and Technology</i> , <b>2022</b> , 2022, 1-11	3.6	
483	Static and dynamic analysis of sulfamethoxazole using GO/ZnO modified glassy carbon electrode by differential pulse voltammetry and amperometry techniques.. <i>Chemosphere</i> , <b>2022</b> , 302, 134926	8.4	0
482	Heat transfer effect of SiC-GN hybrid nanocomposite with viscoplastic fluid in aircraft jet engine hoses. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102297	4.7	
481	Sodium alginate/magnetic hydrogel microspheres from sugarcane bagasse for removal of sulfamethoxazole from sewage water: Batch and column modeling. <i>Environmental Pollution</i> , <b>2022</b> , 119523	9.3	0
480	Green synthesis of curcumin-silver nanoparticle and its modified electrode assisted amperometric sensor for the determination of paracetamol. <i>Chemosphere</i> , <b>2022</b> , 303, 134994	8.4	1
479	A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review. <i>Chemosphere</i> , <b>2022</b> , 303, 135146	8.4	6
478	Fabrication and characterization of magnetic nanomaterials for the removal of toxic pollutants from water environment: A review. <i>Chemosphere</i> , <b>2022</b> , 303, 135067	8.4	0
477	A Review of Recent Progress on Photocatalytic Carbon dioxide Reduction into Sustainable Energy Products using Carbon Nitride. <i>Chemical Engineering Research and Design</i> , <b>2021</b> ,	5.5	5

476	Continuous electrodeionization on the removal of toxic pollutant from aqueous solution. <i>Chemosphere</i> , <b>2021</b> , 132808	8.4	2
475	Superhigh Adsorption of Cadmium(II) Ions onto Surface Modified Nano Zerovalent Iron Composite (CNS-nZVI): Characterization, Adsorption Kinetics and Isotherm Studies. <i>Chemistry and Chemical Technology</i> , <b>2021</b> , 15, 457-464	0.9	1
474	Investigation of pure and g-CN loaded CdWO photocatalytic activity on reducing toxic pollutants. <i>Chemosphere</i> , <b>2021</b> , 133090	8.4	1
473	Bioethanol from hydrolysate of ultrasonic processed robust microalgal biomass cultivated in dairy wastewater under optimal strategy. <i>Energy</i> , <b>2021</b> , 244, 122604	7.9	5
472	Cannabis: Chemistry, extraction and therapeutic applications. <i>Chemosphere</i> , <b>2021</b> , 289, 133012	8.4	12
471	Lab-on-a-chip technologies for food safety, processing, and packaging applications: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 1-27	13.3	2
470	Sustainable approach on the biodegradation of azo dyes: A short review. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2021</b> , 100578	7.9	9
469	Facile route for synthesis of Fe/FeC/FeO carbon composite using hydrothermal carbonization of sugarcane bagasse and its use as effective adsorbent for sulfamethoxazole removal. <i>Chemosphere</i> , <b>2021</b> , 289, 133214	8.4	1
468	Synthesis and characterization of 4-Halobenzylidene malanonitriles for optical detection of Nickel (II) ions in aqueous solution.. <i>Chemosphere</i> , <b>2021</b> , 290, 133248	8.4	2
467	A review on recent advances in electrodeionization for various environmental applications.. <i>Chemosphere</i> , <b>2021</b> , 289, 133223	8.4	2
466	Promotion of methane production by magnetite via increasing acetogenesis revealed by metagenome-assembled genomes.. <i>Bioresource Technology</i> , <b>2021</b> , 345, 126521	11	4
465	Sustainable strategy on microbial fuel cell to treat the wastewater for the production of green energy.. <i>Chemosphere</i> , <b>2021</b> , 290, 133295	8.4	1
464	Bio-functionalized zinc oxide nanoparticles: Potential toxicity impact on freshwater fish <i>Cyprinus carpio</i> .. <i>Chemosphere</i> , <b>2021</b> , 133220	8.4	1
463	A recent advancement on nanomaterials for electrochemical sensing of sulfamethoxazole and its futuristic approach.. <i>Chemosphere</i> , <b>2021</b> , 290, 133115	8.4	4
462	Remediation of emerging metal pollutants using environment friendly biochar- Review on applications and mechanism.. <i>Chemosphere</i> , <b>2021</b> , 290, 133384	8.4	1
461	A comprehensive review on sources, analysis and toxicity of environmental pollutants and its removal methods from water environment.. <i>Science of the Total Environment</i> , <b>2021</b> , 812, 152456	10.2	4
460	Recycled mesoporous magnetic composites with high surface area derived from plastic and de-oiled sludge wastes: An empirical comparison on their competitive performance for toxic Cr (VI) removal.. <i>Chemosphere</i> , <b>2021</b> , 133375	8.4	0
459	Nanoparticles approach to eradicate bacterial biofilm-related infections: A critical review. <i>Chemosphere</i> , <b>2021</b> , 288, 132603	8.4	2

458	Assessment of in vitro antimicrobial efficacy of biologically synthesized metal nanoparticles against pathogenic bacteria. <i>Chemosphere</i> , <b>2021</b> , 291, 132676	8.4	1
457	Progress in the production of hydrogen energy from food waste: A bibliometric analysis. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	2
456	Investigation of PEG directed SbWO for dyes removal from wastewater. <i>Chemosphere</i> , <b>2021</b> , 291, 132678.	8.4	1
455	Performance evaluation and mechanism analysis of halotolerant bacterial strains and cerium oxide nanoparticle to degrade Benzo[a]pyrene. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101980	7	1
454	Pesticides Pollution and Analysis in Water. <i>Sustainable Agriculture Reviews</i> , <b>2021</b> , 337-349	1.3	0
453	Cellulase enzyme catalyst producing bacterial strains from vermicompost and its application in low-density polyethylene degradation. <i>Chemosphere</i> , <b>2021</b> , 288, 132552	8.4	0
452	A review on recent advancements in bioenergy production using microbial fuel cells. <i>Chemosphere</i> , <b>2021</b> , 288, 132512	8.4	9
451	A disposable modified screen-printed electrode using egg white/ZnO rice structured composite as practical tool electrochemical sensor for formaldehyde detection and its comparative electrochemical study with Chitosan/ZnO nanocomposite. <i>Chemosphere</i> , <b>2021</b> , 288, 132560	8.4	7
450	Hybrid metal organic frameworks as an Exotic material for the photocatalytic degradation of pollutants present in wastewater: A review. <i>Chemosphere</i> , <b>2021</b> , 288, 132448	8.4	5
449	Conversion of waste plastics into low emissive hydrocarbon fuel using catalyst produced from biowaste. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 63638-63645	5.1	4
448	Intensification of heat and mass transfer process in MHD carreau nanofluid flow containing gyrotactic microorganisms. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 160, 108299	3.7	12
447	Effective removal of excessive fluoride from aqueous environment using activated pods of <i>Bauhinia variegata</i> : Batch and dynamic analysis. <i>Environmental Pollution</i> , <b>2021</b> , 272, 115969	9.3	7
446	Efficient electrophoretic deposition of an intensification process to enhance the mechanical properties of glass fibre reinforced polymer. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 160, 108298	3.7	
445	Techniques and modeling of polyphenol extraction from food: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 1-35	13.3	23
444	pH Sensitivity Estimation in Potentiometric Metal Oxide pH Sensors Using the Principle of Invariance. <i>International Journal of Chemical Engineering</i> , <b>2021</b> , 2021, 1-18	2.2	1
443	Treatment of methanol industry effluent using algal biomass, <i>Gelidium omanense</i> - kinetic modeling. <i>Chemical Engineering Journal Advances</i> , <b>2021</b> , 5, 100068	3.6	4
442	Advanced techniques to remove phosphates and nitrates from waters: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3165-3180	13.3	12
441	The war using microbes: A sustainable approach for wastewater management. <i>Environmental Pollution</i> , <b>2021</b> , 275, 116598	9.3	16



440	Fabrication of Poly (Acrylonitrile-Co-Methyl Methacrylate) Nanofibers Containing Boron via Electrospinning Method: A Study on Size Distribution, Thermal, Crystalline, and Mechanical Strength Properties. <i>Sustainability</i> , <b>2021</b> , 13, 4342	3.6	0
439	Effective removal of Cr(VI) ions from synthetic solution using mixed biomasses: Kinetic, equilibrium and thermodynamic study. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 40, 101905	6.7	16
438	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> , <b>2021</b> , 291, 125911	10.3	16
437	Sustainable strategy for the enhancement of hazardous aromatic amine degradation using lipopeptide biosurfactant isolated from <i>Brevibacterium casei</i> . <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124943	12.8	12
436	Microbial degradation of recalcitrant pesticides: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3209-3228	13.3	17
435	Metabolic and molecular modelling of zebrafish gut biome to unravel antimicrobial peptides through metagenomics. <i>Microbial Pathogenesis</i> , <b>2021</b> , 154, 104862	3.8	1
434	A review on algal-bacterial symbiotic system for effective treatment of wastewater. <i>Chemosphere</i> , <b>2021</b> , 271, 129540	8.4	47
433	A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal. <i>Environmental Research</i> , <b>2021</b> , 196, 110996	7.9	25
432	Ultrasonic assisted agro waste biomass for rapid removal of Cd(II) ions from aquatic environment: Mechanism and modelling analysis. <i>Chemosphere</i> , <b>2021</b> , 271, 129484	8.4	10
431	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , <b>2021</b> , 296, 126589	10.3	166
430	Sulphonamide: Distribution, Toxicology, Environmental Characteristics, and Analysis - A Review. <i>Current Analytical Chemistry</i> , <b>2021</b> , 17, 590-602	1.7	0
429	Biochar promotes methane production during anaerobic digestion of organic waste. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3557-3564	13.3	9
428	Microwave pyrolysis of coal, biomass and plastic waste: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3609-3629	13.3	15
427	CO <sub>2</sub> Reforming of CH <sub>4</sub> on Mesoporous Alumina-Supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading. <i>Topics in Catalysis</i> , <b>2021</b> , 64, 338-347	2.3	1
426	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. <i>Chemosphere</i> , <b>2021</b> , 271, 129519	8.4	23
425	Adsorption of ciprofloxacin from aqueous solution using surface improved tamarind shell as an economical and effective adsorbent. <i>International Journal of Phytoremediation</i> , <b>2021</b> , 1-11	3.9	1
424	Rare earth metal (Sm) doped zinc ferrite (ZnFeO) for improved photocatalytic elimination of toxic dye from aquatic system. <i>Environmental Research</i> , <b>2021</b> , 197, 111047	7.9	14
423	Performance study on adsorptive removal of acetaminophen from wastewater using silica microspheres: Kinetic and isotherm studies.. <i>Chemosphere</i> , <b>2021</b> , 272, 129896	8.4	11

4 <sup>22</sup>	Kinetic modelling of high turbid water flocculation using native and surface functionalized coagulants prepared from shed-leaves of <i>Avicennia marina</i> plants. <i>Chemosphere</i> , <b>2021</b> , 272, 129894	8.4	3
4 <sup>21</sup>	Effective removal of malachite green dye from aqueous solution in hybrid system utilizing agricultural waste as particle electrodes. <i>Chemosphere</i> , <b>2021</b> , 273, 129634	8.4	14
4 <sup>20</sup>	Cobalt and nickel oxides supported activated carbon as an effective photocatalysts for the degradation Methylene Blue dye from aquatic environment. <i>Sustainable Chemistry and Pharmacy</i> , <b>2021</b> , 21, 100406	3.9	10
4 <sup>19</sup>	Process intensified microwave absorption nanocomposite for stealth application. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 163, 108333	3.7	1
4 <sup>18</sup>	Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105204	6.8	13
4 <sup>17</sup>	Effectiveness of a biogenic composite derived from cattle horn core/iron nanoparticles via wet chemical impregnation for cadmium (II) removal in aqueous solution. <i>Chemosphere</i> , <b>2021</b> , 272, 129806	8.4	4
4 <sup>16</sup>	The unfurl of the coronavirus and its thwack on humans and the environment: a review. <i>Current Opinion in Environmental Science and Health</i> , <b>2021</b> , 24, 100289	8.1	1
4 <sup>15</sup>	Adsorptive Removal of Malachite Green Dye onto Coal-Associated Soil and Conditions Optimization. <i>Adsorption Science and Technology</i> , <b>2021</b> , 2021, 1-11	3.6	4
4 <sup>14</sup>	An effective separation of toxic arsenic from aquatic environment using electrochemical ion exchange process. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 412, 125240	12.8	22
4 <sup>13</sup>	A comprehensive review on different approaches for CO <sub>2</sub> utilization and conversion pathways. <i>Chemical Engineering Science</i> , <b>2021</b> , 236, 116515	4.4	41
4 <sup>12</sup>	Endophytic fungus <i>Diaporthe caatingaensis</i> MT192326 from <i>Buchanania axillaris</i> : An indicator to produce biocontrol agents in plant protection. <i>Environmental Research</i> , <b>2021</b> , 197, 111147	7.9	3
4 <sup>11</sup>	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> , <b>2021</b> , 592, 174-185	9.3	168
4 <sup>10</sup>	Modeling analysis on the effective elimination of toxic pollutant from aquatic environment using pyrolysis assisted palmyra palm male inflorescence. <i>Environmental Research</i> , <b>2021</b> , 197, 111146	7.9	9
4 <sup>09</sup>	Utilization of AgO-AlO-ZrO decorated onto rGO as adsorbent for the removal of Congo red from aqueous solution. <i>Environmental Research</i> , <b>2021</b> , 197, 111179	7.9	14
4 <sup>08</sup>	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. <i>Chemosphere</i> , <b>2021</b> , 274, 129734	8.4	30
4 <sup>07</sup>	Numerical study of fluid flow and heat transfer for flow of Cu-Al <sub>2</sub> O <sub>3</sub> -water hybrid nanofluid in a microchannel heat sink. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
4 <sup>06</sup>	Application of adsorption process for effective removal of emerging contaminants from water and wastewater. <i>Environmental Pollution</i> , <b>2021</b> , 280, 116995	9.3	56
4 <sup>05</sup>	Evaluation of mechanical, optical and thermal properties of PVA nanocomposites embedded with Fe <sub>2</sub> O <sub>3</sub> nanofillers and the investigation of their thermal decomposition characteristics under non-isothermal heating condition. <i>Polymer Bulletin</i> , <b>2021</b> , 78, 2191-2210	2.4	4

404	Magnetite encapsulated alginates tailored material for the sustainable treatment of electroplating industrial wastewater: column dynamics and mass transfer studies. <i>Clean Technologies and Environmental Policy</i> , <b>2021</b> , 23, 89-102	4.3	1
403	A fuzzy cognitive map approach to predict the hazardous effects of malathion to environment (air, water and soil). <i>Chemosphere</i> , <b>2021</b> , 263, 127926	8.4	11
402	Analysis and removal of pharmaceutical residues from wastewater using membrane bioreactors: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 329-343	13.3	15
401	A review on biosynthesis of metal nanoparticles and its environmental applications. <i>Chemosphere</i> , <b>2021</b> , 264, 128580	8.4	82
400	Adsorptive separation of toxic metals from aquatic environment using agro waste biochar: Application in electroplating industrial wastewater. <i>Chemosphere</i> , <b>2021</b> , 262, 128031	8.4	30
399	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> , <b>2021</b> , 46, 16734-16750	6.7	27
398	Theoretical analysis of the heat transfer effect of viscoplastic nanofluids in process intensified chemical systems. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 159, 108227	3.7	
397	Recent developments in photocatalytic remediation of textile effluent using semiconductor based nanostructured catalyst: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104881	6.8	23
396	Adsorption characteristics of magnetic nanoparticles coated mixed fungal biomass for toxic Cr(VI) ions in aquatic environment. <i>Chemosphere</i> , <b>2021</b> , 267, 129226	8.4	39
395	Enhanced photocatalytic degradation of diclofenac by Sn <sub>0.15</sub> Mn <sub>0.85</sub> Fe <sub>2</sub> O <sub>4</sub> catalyst under solar light. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104875	6.8	8
394	Hydrothermal production of algal biochar for environmental and fertilizer applications: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 1025-1042	13.3	8
393	A review on new aspects of lipopeptide biosurfactant: Types, production, properties and its application in the bioremediation process. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124827	12.8	33
392	Investigation of magnetic silica nanocomposite immobilized <i>Pseudomonas fluorescens</i> as a biosorbent for the effective sequestration of Rhodamine B from aqueous systems. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116173	9.3	30
391	Enhanced adsorptive removal of sulfamethoxazole from water using biochar derived from hydrothermal carbonization of sugarcane bagasse. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124825	12.8	60
390	Sequential production of hydrogen and methane by anaerobic digestion of organic wastes: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 1043-1063	13.3	13
389	A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 409, 124413	12.8	104
388	Methods of detection of food-borne pathogens: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 189-207	13.3	30
387	Enhancement of ultrasound assisted aqueous extraction of polyphenols from waste fruit peel using dimethyl sulfoxide as surfactant: Assessment of kinetic models. <i>Chemosphere</i> , <b>2021</b> , 263, 128071	8.4	5

386	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> , <b>2021</b> , 23, 173-181	4.3	23
385	Production of optically pure lactic acid by microbial fermentation: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 539-556	13.3	34
384	Techniques of lipid extraction from microalgae for biofuel production: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 231-251	13.3	28
383	Photocatalysis for removal of environmental pollutants and fuel production: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 441-463	13.3	42
382	Treatment of textile wastewater using biochar produced from agricultural waste <b>2021</b> , 187-208		1
381	Water Footprint in Leather Tanning and Steel Production. <i>Environmental Footprints and Eco-design of Products and Processes</i> , <b>2021</b> , 137-156	0.9	0
380	Sustainability in Textile Design. <i>Sustainable Textiles</i> , <b>2021</b> , 39-51	1.1	
379	Development of Renewable Energies and Its Consequences on the Ecological Footprint. <i>Environmental Footprints and Eco-design of Products and Processes</i> , <b>2021</b> , 95-108	0.9	
378	Treatment of Textile Wastewater Using Biochar Produced from Agricultural Waste. <i>Sustainable Textiles</i> , <b>2021</b> , 205-223	1.1	
377	Circular Economy: An Insightful Tool for Sustainable Management of Wastewater. <i>Environmental Footprints and Eco-design of Products and Processes</i> , <b>2021</b> , 203-220	0.9	
376	Sustainable Approach on the Treatment of Textile Wastewater Using Membrane Techniques. <i>Sustainable Textiles</i> , <b>2021</b> , 89-102	1.1	
375	Hydrological contaminant transport <b>2021</b> , 235-250		
374	Industrial Water Footprint: Case Study on Textile Industries. <i>Environmental Footprints and Eco-design of Products and Processes</i> , <b>2021</b> , 35-60	0.9	3
373	Environmental and health effects of nanomaterials <b>2021</b> , 701-711		
372	Wastewater biodegradability: Selection of a treatment technology <b>2021</b> , 235-246		0
371	Carbon nanocomposites for wastewater treatment <b>2021</b> , 215-234		
370	Sustainable adsorbents for the removal of pesticides from water: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2425-2463	13.3	19
369	A review on critical assessment of advanced bioreactor options for sustainable hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 7113-7136	6.7	10

368	A Performance Comparison of Anaerobic and an Integrated Anaerobic-Aerobic Biological Reactor System for the Effective Treatment of Textile Wastewater. <i>International Journal of Chemical Engineering</i> , <b>2021</b> , 2021, 1-15	2.2	4
367	Graphene-based materials for environmental applications: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3631-3644	13.3	7
366	Cost effective and facile low temperature hydrothermal fabrication of Cu <sub>2</sub> S thin films for hydrogen evolution reaction in seawater splitting. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	1
365	Quercetin-rGO based mercury-free electrode for the determination of toxic Cd (II) and Pb (II) ions using DPASV technique. <i>Environmental Research</i> , <b>2021</b> , 202, 111707	7.9	2
364	Anionic surfactant assisted copper hydroxide for toxic dye removal from wastewater. <i>Environmental Research</i> , <b>2021</b> , 199, 111310	7.9	1
363	Stimulation of <i>Bacillus</i> sp. by lipopeptide biosurfactant for the degradation of aromatic amine 4-Chloroaniline. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 415, 125716	12.8	4
362	A review on bioconversion processes for hydrogen production from agro-industrial residues. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	9
361	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105657	6.8	5
360	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. <i>Bioresource Technology</i> , <b>2021</b> , 334, 125240	11	18
359	Assessing the Plant Phytoremediation Efficacy for <i>Azolla filiculoides</i> in the Treatment of Textile Effluent and Redemtion of Congo Red Dye onto <i>Azolla</i> Biomass. <i>Sustainability</i> , <b>2021</b> , 13, 9588	3.6	2
358	Removal of emerging pollutants from aquatic system using electrochemical treatment and adsorption: Comparison and analysis. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101754	7	1
357	Recent technologies for nutrient removal and recovery from wastewaters: A review. <i>Chemosphere</i> , <b>2021</b> , 277, 130328	8.4	18
356	Mixed biosorbent of agro waste and bacterial biomass for the separation of Pb(II) ions from water system. <i>Chemosphere</i> , <b>2021</b> , 277, 130236	8.4	21
355	A review on remedial measures for effective separation of emerging contaminants from wastewater. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101741	7	16
354	Heat and Mass Transfer Enhancement of MHD Hybrid Nanofluid Flow in the Presence of Activation Energy. <i>International Journal of Chemical Engineering</i> , <b>2021</b> , 2021, 1-12	2.2	7
353	Evaluation of phase transfer kinetics and thermodynamic equilibria of Reactive Orange 16 sorption onto chemically improved <i>Arachis hypogaea</i> pod powder. <i>Chemosphere</i> , <b>2021</b> , 276, 130136	8.4	8
352	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 4137	13.3	13
351	Influence of tin (Sn) doping on CoO for enhanced photocatalytic dye degradation. <i>Chemosphere</i> , <b>2021</b> , 277, 130325	8.4	13

350	Statistical analysis of adsorption isotherm models and its appropriate selection. <i>Chemosphere</i> , <b>2021</b> , 276, 130176	8.4	32
349	Sustainable removal of cadmium from contaminated water using green alga - Optimization, characterization and modeling studies. <i>Environmental Research</i> , <b>2021</b> , 199, 111364	7.9	14
348	Effect of shape and anthocyanin capping on antibacterial activity of CuI particles. <i>Environmental Research</i> , <b>2021</b> , 200, 111759	7.9	3
347	Perspective of Spirulina culture with wastewater into a sustainable circular bioeconomy. <i>Environmental Pollution</i> , <b>2021</b> , 284, 117492	9.3	15
346	Hydrogen free direct growth carbon nanorod as a promising electrode in symmetric supercapacitor applications. <i>Progress in Organic Coatings</i> , <b>2021</b> , 158, 106379	4.8	5
345	Structural, functional, resistome and pathogenicity profiling of the Cooum river. <i>Microbial Pathogenesis</i> , <b>2021</b> , 158, 105048	3.8	0
344	A review on sources, identification and treatment strategies for the removal of toxic Arsenic from water system. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126299	12.8	21
343	Surface modified polymer-magnetic-algae nanocomposite for the removal of chromium-equilibrium and mechanism studies. <i>Environmental Research</i> , <b>2021</b> , 201, 111626	7.9	20
342	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126451	12.8	30
341	Micro algal biodiesel synthesized from Monoraphidium sp., and Chlorella sorokiniana: Feasibility and emission parameter studies. <i>Fuel</i> , <b>2021</b> , 301, 121063	7.1	5
340	Efficient photocatalytic degradation of hazardous pollutants by homemade kitchen blender novel technique via 2D-material of few-layer MXene nanosheets. <i>Chemosphere</i> , <b>2021</b> , 281, 130984	8.4	10
339	Visible light driven exotic p (CuO) - n (TiO) heterojunction for the photodegradation of 4-chlorophenol and antibacterial activity. <i>Environmental Pollution</i> , <b>2021</b> , 287, 117304	9.3	9
338	Analysis and microbial degradation of Low-Density Polyethylene (LDPE) in Winogradsky column. <i>Environmental Research</i> , <b>2021</b> , 201, 111646	7.9	3
337	Advances in biosorbents for removal of environmental pollutants: A review on pretreatment, removal mechanism and future outlook. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 420, 126596	12.8	13
336	Application of biomass derived products in mid-size automotive industries: A review. <i>Chemosphere</i> , <b>2021</b> , 280, 130723	8.4	11
335	Ethylene glycol assisted MnCO <sub>3</sub> electrocatalyst for water oxidation and hydrogen production application. <i>Fuel</i> , <b>2021</b> , 302, 121151	7.1	0
334	Non-Newtonian nanofluids flow analysis at the ingress section in process intensified system. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 167, 108518	3.7	1
333	Annealing temperature effect on cobalt ferrite nanoparticles for photocatalytic degradation. <i>Chemosphere</i> , <b>2021</b> , 281, 130903	8.4	16

332	Investigation of electrochemical performance of an efficient TiO-CeO nanocomposite for enhanced pollution-free energy conversion applications. <i>Journal of Environmental Management</i> , <b>2021</b> , 295, 113138	7.9	1
331	Sustainable approach on removal of toxic metals from electroplating industrial wastewater using dissolved air flotation. <i>Journal of Environmental Management</i> , <b>2021</b> , 295, 113147	7.9	10
330	Eco-friendly pH detecting paper-based analytical device: Towards process intensification. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1182, 338953	6.6	4
329	Analysis on the removal of emerging contaminant from aqueous solution using biochar derived from soap nut seeds. <i>Environmental Pollution</i> , <b>2021</b> , 287, 117632	9.3	16
328	Conversion of food waste to energy: A focus on sustainability and life cycle assessment. <i>Fuel</i> , <b>2021</b> , 302, 121069	7.1	19
327	Plant-microbe interactions implicated in the production of camptothecin - An anticancer biometabolite from <i>Phyllosticta elongata</i> MH458897 a novel endophytic strain isolated from medicinal plant of Western Ghats of India. <i>Environmental Research</i> , <b>2021</b> , 201, 111564	7.9	1
326	Effective water/wastewater treatment methodologies for toxic pollutants removal: Processes and applications towards sustainable development. <i>Chemosphere</i> , <b>2021</b> , 280, 130595	8.4	60
325	A review on the microbial degradation of chlorpyrifos and its metabolite TCP. <i>Chemosphere</i> , <b>2021</b> , 283, 131447	8.4	11
324	Hydrothermally synthesized $\beta$ MnS nanostructures for electrochemical water oxidation and photocatalytic hydrogen production. <i>Fuel</i> , <b>2021</b> , 303, 121293	7.1	2
323	Photocatalytic disinfection of micro-organisms: Mechanisms and applications. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101909	7	5
322	Analysis and effective separation of toxic pollutants from water resources using MBBR: Pathway prediction using alkaliphilic <i>P. mendocina</i> . <i>Science of the Total Environment</i> , <b>2021</b> , 797, 149135	10.2	4
321	Application of alkaline MnP immobilized Luffa fibers in mixed azo dyes degradation. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101964	7	1
320	Critical review on hazardous pollutants in water environment: Occurrence, monitoring, fate, removal technologies and risk assessment. <i>Science of the Total Environment</i> , <b>2021</b> , 797, 149134	10.2	39
319	Optimization strategies of alkaline thermo-chemical pretreatment for the enhancement of biogas production from de-oiled algae. <i>Fuel</i> , <b>2021</b> , 303, 121242	7.1	14
318	Automating water quality analysis using ML and auto ML techniques. <i>Environmental Research</i> , <b>2021</b> , 202, 111720	7.9	1
317	Surface improved agro-based material for the effective separation of toxic Ni(II) ions from aquatic environment. <i>Chemosphere</i> , <b>2021</b> , 283, 131215	8.4	3
316	Adsorptive removal of Pb(II) ions onto surface modified adsorbents derived from Cassia fistula seeds: Optimization and modelling study. <i>Chemosphere</i> , <b>2021</b> , 283, 131276	8.4	10
315	Micro-patterned graphite electrodes: An analysis and optimization of process parameters on hydrogen evolution in water electrolysis. <i>Fuel</i> , <b>2021</b> , 305, 121542	7.1	0

314	Acenaphthene adsorption onto ultrasonic assisted fatty acid mediated porous activated carbon-characterization, isotherm and kinetic studies. <i>Chemosphere</i> , <b>2021</b> , 284, 131249	8.4	7
313	Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects. <i>Bioresource Technology</i> , <b>2021</b> , 342, 126021	11	10
312	A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases. <i>Chemosphere</i> , <b>2021</b> , 284, 131344	8.4	8
311	Biohythane as a high potential fuel from anaerobic digestion of organic waste: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111700	16.2	1
310	Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using Casuarina equisetifolia pines. <i>Chemosphere</i> , <b>2021</b> , 285, 131480	8.4	17
309	Direct growth of multilayered graphene nanofibers by chemical vapour deposition and their binder-free electrodes for symmetric supercapacitor devices. <i>Progress in Organic Coatings</i> , <b>2021</b> , 161, 106511	4.8	1
308	Fluorine-implanted indium-gallium-zinc oxide (IGZO) chemiresistor sensor for high-response NO detection. <i>Chemosphere</i> , <b>2021</b> , 284, 131287	8.4	1
307	A review on nano-catalysts and biochar-based catalysts for biofuel production. <i>Fuel</i> , <b>2021</b> , 306, 121632	7.1	12
306	Advantage of conductive materials on interspecies electron transfer-independent acetoclastic methanogenesis: A critical review. <i>Fuel</i> , <b>2021</b> , 305, 121577	7.1	9
305	A review on adsorptive separation of toxic metals from aquatic system using biochar produced from agro-waste. <i>Chemosphere</i> , <b>2021</b> , 285, 131438	8.4	21
304	Sequestration of toxic Pb(II) ions using ultrasonic modified agro waste: Adsorption mechanism and modelling study. <i>Chemosphere</i> , <b>2021</b> , 285, 131502	8.4	6
303	Hexamethylenetetramine concentration effect on CaWO <sub>4</sub> for electrochemical hydrogen evolution reaction activity. <i>Fuel</i> , <b>2021</b> , 306, 121781	7.1	1
302	Bioremediation of soil contaminated with toxic mixed reactive azo dyes by co-cultured cells of <i>Enterobacter cloacae</i> and <i>Bacillus subtilis</i> . <i>Environmental Research</i> , <b>2021</b> , 204, 112136	7.9	0
301	Occurrence and removal of antibiotics from industrial wastewater. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 1477-1507	13.3	17
300	Enzyme-loaded nanoparticles for the degradation of wastewater contaminants: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2331-2350	13.3	13
299	Application of Life Cycle Sustainability Assessment to Evaluate the Future Energy Crops for Sustainable Energy and Bioproducts. <i>Environmental Footprints and Eco-design of Products and Processes</i> , <b>2021</b> , 57-80	0.9	
298	Bioelectrochemical Systems for Remediation and Recovery of Nutrients From Industrial Wastewater <b>2021</b> , 445-474		1
297	Efficient techniques for the removal of toxic heavy metals from wastewater <b>2021</b> , 611-630		



296 Adsorbents based on chemically modified natural polymers **2021**, 223-241

295	Analyzing the Cooling Rate and Its Effect on Distribution of Pattern and Size of the Titanium Diboride Particles Formed. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-6	1.5	
294	Practice on treating pharmaceutical compounds (antibiotics) present in wastewater using biosorption techniques with different biowaste compounds. A review. <i>Environmental Progress and Sustainable Energy</i> , <b>2020</b> , 39, e13429	2.5	10
293	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> , <b>2020</b> , 153, 112613	5.9	29
292	Production of pigment using Aspergillus tamarii: New potentials for synthesizing natural metabolites. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 19, 100967	7	3
291	Adsorption of copper ions from polluted water using biochar derived from waste renewable resources: static and dynamic analysis. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-22	1.8	6
290	Recent trends and challenges in bioleaching technologies <b>2020</b> , 373-388		2
289	Conversion of green algal biomass into bioenergy by pyrolysis. A review. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 18, 829-849	13.3	48
288	Optical, electrical, mechanical, and thermal properties and non-isothermal decomposition behavior of poly(vinyl alcohol)/ZnO nanocomposites. <i>Iranian Polymer Journal (English Edition)</i> , <b>2020</b> , 29, 411-422	2.3	19
287	Rhamnolipid-assisted mycoremediation of polycyclic aromatic hydrocarbons by coupled with enhanced ligninolytic enzyme production. <i>Journal of the Air and Waste Management Association</i> , <b>2020</b> , 70, 1260-1267	2.4	6
286	Adsorption of Pb(II) and Cd(II) ions onto modified biogenic slaughterhouse waste: equilibrium and kinetic analysis. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-20	1.8	4
285	Adsorptive behaviour of surface tailored fungal biomass for the elimination of toxic dye from wastewater. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-16	1.8	5
284	Microalgae for biofuel production and removal of heavy metals: a review. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 18, 1905-1923	13.3	36
283	Rhizoremediation of Cu(II) ions from contaminated soil using plant growth promoting bacteria: an outlook on pyrolysis conditions on plant residues for methylene orange dye biosorption. <i>Bioengineered</i> , <b>2020</b> , 11, 175-187	5.7	11
282	A review on systematic approach for microbial enhanced oil recovery technologies: Opportunities and challenges. <i>Journal of Cleaner Production</i> , <b>2020</b> , 258, 120777	10.3	25
281	Membrane separation technologies for downstream processing <b>2020</b> , 389-400		
280	Cleaner strategies on the effective elimination of toxic chromium from wastewater using coupled electrochemical/biological systems. <i>Environmental Progress and Sustainable Energy</i> , <b>2020</b> , 39, e13399	2.5	7
279	Structural, Optical, Thermal and Non-isothermal Decomposition Behavior of PMMA Nanocomposites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 2998-3013	3.2	5

278	Sustainability in Dyeing and Finishing. <i>Sustainable Textiles</i> , <b>2020</b> , 165-177	1.1	0
277	Certifications for Sustainability in Footwear and Leather Sectors <b>2020</b> , 181-197		
276	Environmental and Chemical Issues in Tanneries and Their Mitigation Measures <b>2020</b> , 1-10		1
275	Sustainability in the Spinning Process. <i>Sustainable Textiles</i> , <b>2020</b> , 197-207	1.1	
274	Biosorptive Removal of Toxic Pollutants from Contaminated Water. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 213-224	0.8	
273	CdO nanoparticles, c-MWCNT nanoparticles and CdO nanoparticles/c-MWCNT nanocomposite fibres: in vitro assessment of anti-proliferative and apoptotic studies in HeLa cancer cell line. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 695-700	2	0
272	Properties of Recycled Polyester <b>2020</b> , 1-14		1
271	Test Methods and Identification of Recycled Polyester <b>2020</b> , 69-88		1
270	Facile hydrothermal bio-synthesis of cellulose acetate templated CuS nanorods like fibres: antibacterial, cytotoxicity effects and DNA cleavage properties against A549 lung cancer cells. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 47-52	2	1
269	and approaches to evaluate the bioactivity of Cassia auriculata L extracts. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 210-216	2	1
268	Recent advancements in rapid analysis of pesticides using nano biosensors: A present and future perspective. <i>Journal of Cleaner Production</i> , <b>2020</b> , 269, 122356	10.3	35
267	Optimization and modeling of reactive yellow adsorption by surface modified Delonix regia seed: Study of nonlinear isotherm and kinetic parameters. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100520	4.1	23
266	Amino-functionalised mesoporous silica microspheres for immobilisation of lipase B - application towards greener production of 2,5-furandicarboxylic acid. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 732-738	2	2
265	Bioremediation of 2,4-Diaminotoluene in Aqueous Solution Enhanced by Lipopeptide Biosurfactant Production from Bacterial Strains. <i>Journal of Environmental Engineering, ASCE</i> , <b>2020</b> , 146, 04020069	2	3
264	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> , <b>2020</b> , 298, 112023	6	27
263	Potential of plant-based photosensitizers in dye-sensitized solar cell applications. <i>Environmental Progress and Sustainable Energy</i> , <b>2020</b> , 39, e13351	2.5	5
262	Solid waste biorefineries <b>2020</b> , 3-17		1
261	Sources and operations of waste biorefineries <b>2020</b> , 111-133		6

260	Food industry waste biorefineries <b>2020</b> , 407-426		3
259	Rhizoremediation A promising tool for the removal of soil contaminants: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 103543	6.8	28
258	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> , <b>2020</b> , 33, 101069	6.7	27
257	Enhancement in thermal, mechanical and electrical properties of novel PVA nanocomposite embedded with SrO nanofillers and the analysis of its thermal degradation behavior by nonisothermal approach. <i>Polymer Composites</i> , <b>2020</b> , 41, 1277-1290	3	7
256	A review on contamination and removal of sulfamethoxazole from aqueous solution using cleaner techniques: Present and future perspective. <i>Journal of Cleaner Production</i> , <b>2020</b> , 250, 119553	10.3	65
255	Adsorptive separation of Cu(II) ions from aqueous medium using thermally/chemically treated Cassia fistula based biochar. <i>Journal of Cleaner Production</i> , <b>2020</b> , 249, 119390	10.3	48
254	Separation of manganese from water using hybrid nanocomposite to control water pollution: kinetic and equilibrium modelling. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-16	1.8	7
253	Performance of montmorillonite/graphene oxide/CoFe <sub>2</sub> O <sub>4</sub> as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 3993-4004	4.6	39
252	A review on three-dimensional electrochemical systems: analysis of influencing parameters and cleaner approach mechanism for wastewater. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2020</b> , 19, 873-896	13.9	4
251	Molecular aspects of oligomer-coupled ultra-small Au nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , <b>2020</b> , 140, 109378	3.9	2
250	Formulation and combinatorial effect of Pseudomonas fluorescens and Bacillus coagulans as biocontrol agents. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2020</b> , 30, 101868	4.2	
249	A critical review on the biochar production techniques, characterization, stability and applications for circular bioeconomy. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2020</b> , 28, e00570	5.3	91
248	Water quality analysis in a lake using deep learning methodology: prediction and validation. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-16	1.8	2
247	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> , <b>2020</b> , 748, 141312	10.2	39
246	Cleaner production on electrochemical removal of sulphonamide from wastewater using three-dimensional electrode system: characterisation and kinetics. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-17	1.8	1
245	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> , <b>2020</b> , 11, 100460	6	17
244	Potential of nanoscale size zero valent iron nanoparticles impregnated activated carbon prepared from palm kernel shell for cadmium removal to avoid water pollution. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-17	1.8	4
243	Microbial electrolysis cells and microbial fuel cells for biohydrogen production: current advances and emerging challenges. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	7

242	Enhancement of lactic acid production from food waste through simultaneous saccharification and fermentation using selective microbial strains. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	3
241	Valorization of Waste Algal Boom for Value-Added Products. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 129-137	0.8	1
240	Plasmonic gold-copper alloy dimer as Nanorulers <b>2020</b> ,		1
239	Fabrication of novel amine-functionalized magnetic silica nanoparticles for toxic metals: kinetic and isotherm modeling. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 27202-27210	5.1	12
238	Synthesis and application of porous oil-sorbent microspheres: Characterization, retention capacity and sorption kinetics. <i>Separation and Purification Technology</i> , <b>2020</b> , 234, 116095	8.3	10
237	Treatment of Dye Containing Wastewater Using Agricultural Biomass Derived Magnetic Adsorbents. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 149-169	0.8	2
236	Modeling and Cr(VI) ion uptake kinetics of Sorghum bicolor plant assisted by plant growth-promoting Pannonibacter phragmetitus: an ecofriendly approach. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 27307-27318	5.1	4
235	Electrodeionization theory, mechanism and environmental applications. A review. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 18, 1209-1227	13.3	12
234	Food preservation techniques and nanotechnology for increased shelf life of fruits, vegetables, beverages and spices: a review. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 19, 1-21	13.3	29
233	Effect of Antibiotics on the Microbial Efficiency of Anaerobic Digestion of Wastewater: A Review. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 611613	5.7	11
232	Carbon Nanotube Composites <b>2019</b> , 23, 75-81		
231	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. <i>Bioresource Technology</i> , <b>2019</b> , 292, 122030	11	133
230	Insights of CMNPs in water pollution control. <i>IET Nanobiotechnology</i> , <b>2019</b> , 13, 553-559	2	9
229	Molecular characterization of chromium resistant gram-negative bacteria isolated from industrial effluent: Bioremedial activity. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 80, 640-646	6.3	5
228	Separation and Purification of Nucleotides, Nucleosides, Purine and Pyrimidine Bases by Ion Exchange <b>2019</b> , 163-175		
227	Water and Textiles <b>2019</b> , 21-40		6
226	A review on photochemical, biochemical and electrochemical transformation of CO <sub>2</sub> into value-added products. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 33, 131-147	7.6	156
225	A review on heavy metal pollution, toxicity and remedial measures: Current trends and future perspectives. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 290, 111197	6	433

224	Characterization techniques for nanomaterials <b>2019</b> , 97-124		18
223	Date Palm as a Healthy Food. <i>Sustainable Agriculture Reviews</i> , <b>2019</b> , 1-17	1.3	2
222	Biogas Production from Date Palm Fruits. <i>Sustainable Agriculture Reviews</i> , <b>2019</b> , 79-103	1.3	
221	Modelling on the Removal of Dye from Industrial Wastewater Using Surface Improved Enteromorpha intestinalis. <i>International Journal of Environmental Research</i> , <b>2019</b> , 13, 349-366	2.9	13
220	Patterned 2D Thin Films Topological Insulators for Potential Plasmonic Applications <b>2019</b> , 361-391		
219	An investigation of adsorption parameters on ZVI-AC nanocomposite in the displacement of Se(IV) ions through CCD analysis. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 75, 211-223	6.3	13
218	Removal of colorants from wastewater: A review on sources and treatment strategies. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 75, 1-19	6.3	213
217	Water withdrawal and conservation Global scenario <b>2019</b> , 61-75		0
216	A review on cleaner strategies for chromium industrial wastewater: Present research and future perspective. <i>Journal of Cleaner Production</i> , <b>2019</b> , 228, 580-593	10.3	127
215	Phytoremediation of Cr(VI) ion contaminated soil using Black gram (Vigna mungo): Assessment of removal capacity. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103052	6.8	20
214	Separation and Purification of Vitamins: Vitamins B1, B2, B6, C and K1 <b>2019</b> , 177-187		0
213	Introduction Water <b>2019</b> , 1-20		1
212	Modelling on the removal of toxic metal ions from aquatic system by different surface modified Cassia fistula seeds. <i>Bioresource Technology</i> , <b>2019</b> , 281, 1-9	11	43
211	Bromate Formation in Drinking Water and Its Control Using Graphene Based Materials <b>2019</b> , 239-260		
210	Efficient Removal of Nitrate and Phosphate Using Graphene Nanocomposites <b>2019</b> , 287-307		3
209	Redemption of acid fuchsin dye from wastewater using de-oiled biomass: Kinetics and isotherm analysis. <i>Bioresource Technology Reports</i> , <b>2019</b> , 7, 100300	4.1	20
208	Treatment of fluoride-contaminated water. A review. <i>Environmental Chemistry Letters</i> , <b>2019</b> , 17, 1707-1726	12.3	23
207	One pot Green Synthesis of Nano magnesium oxide-carbon composite: Preparation, characterization and application towards anthracene adsorption. <i>Journal of Cleaner Production</i> , <b>2019</b> , 237, 117691	10.3	27

206	Ultrasonic-assisted synthesis of Populus alba activated carbon for water defluorination: Application for real wastewater. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1595-1603	2.8	34
205	In vitro evaluation of biodegradable nHAP-Chitosan-Gelatin-based scaffold for tissue engineering application. <i>IET Nanobiotechnology</i> , <b>2019</b> , 13, 301-306	2	2
204	ADSORPTION OF AN ANIONIC DYE ONTO NATIVE AND CHEMICALLY MODIFIED AGRICULTURAL WASTE. <i>Environmental Engineering and Management Journal</i> , <b>2019</b> , 18, 257-270	0.6	5
203	Soil Bioremediation Techniques. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , <b>2019</b> , 35-50	0.4	3
202	Organic Cotton and Its Environmental Impacts <b>2019</b> , 127-139		
201	Organic Cotton Versus Recycled Cotton Versus Sustainable Cotton <b>2019</b> , 141-155		
200	Product Lifecycle in the Pharmaceutical Industry. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , <b>2019</b> , 112-132	0.3	
199	Agriculture Pollution. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , <b>2019</b> , 134-154	0.4	2
198	Characteristics of Pharmaceutical Supply Chains. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , <b>2019</b> , 181-205	0.3	
197	Production Process in the Pharmaceutical Industry. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , <b>2019</b> , 158-179	0.3	
196	Water Pollutants and Their Removal Techniques. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , <b>2019</b> , 114-133	0.4	
195	Biosorption [An Elective Strategy for Wastewater Treatment <b>2019</b> , 1-16		
194	New Analytical Approaches for Pharmaceutical Wastewater Treatment Using Graphene Based Materials <b>2019</b> , 397-411		2
193	Estimation of magnetohydrodynamic radiative nanofluid flow over a porous non-linear stretching surface: application in biomedical research. <i>IET Nanobiotechnology</i> , <b>2019</b> , 13, 911-922	2	1
192	Analysis of entrance region flow of Bingham nanofluid in concentric annuli with rotating inner cylinder. <i>Micro and Nano Letters</i> , <b>2019</b> , 14, 1361-1365	0.9	4
191	Investigating the prospects of bacterial biosurfactants for metal nanoparticle synthesis - a comprehensive review. <i>IET Nanobiotechnology</i> , <b>2019</b> , 13, 243-249	2	22
190	Polymer Electrolyte Membranes <b>2019</b> , 23, 82-89		
189	Diffusion of Multiwall Carbon Nanotubes into Industrial Polymers <b>2019</b> , 23, 213-221		

188 Ionic Polymer Metal Composites **2019**, 23, 64-74

187 Environmental Footprints of Water Concepts, Tools, Importance and Challenges. *Environmental Footprints and Eco-design of Products and Processes*, **2019**, 1-20 0.9

186 Energy Footprints of Food Products. *Environmental Footprints and Eco-design of Products and Processes*, **2019**, 1-18 0.9

185 Energy Footprints of Textile Products. *Environmental Footprints and Eco-design of Products and Processes*, **2019**, 45-61 0.9

184 Case Study on Social Life Cycle Assessment of the Dairy Industry. *Environmental Footprints and Eco-design of Products and Processes*, **2019**, 59-76 0.9

183 Removal of toxic pollutants from water environment by phytoremediation: A survey on application and future prospects. *Environmental Technology and Innovation*, **2019**, 13, 264-276 7 106

182 Management of printed circuit boards by newly designed thermal pyrolytic process: Process optimization by RSM approach. *Environmental Progress and Sustainable Energy*, **2019**, 38, 489-499 2.5 3

181 Sustainable business strategies and circular economy **2019**, 149-167 1

180 Systems and models for circular economy **2019**, 169-181 5

179 Future for circular economy **2019**, 207-217 3

178 Social Life Cycle Assessment of Renewable Bio-Energy Products. *Environmental Footprints and Eco-design of Products and Processes*, **2019**, 99-111 0.9

177 Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (*Pseudomonas stutzeri* and acid treated Banyan tree bark). *Journal of Molecular Liquids*, **2019**, 276, 362-370 6 27

176 Water Footprint of Agricultural Products. *Environmental Footprints and Eco-design of Products and Processes*, **2019**, 1-19 0.9 0

175 Sustainable Dyeing Techniques **2018**, 1-29 2

174 Sustainability in Wastewater Treatment in Textiles Sector **2018**, 67-97

173 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. *Journal of Molecular Liquids*, **2018**, 259, 88-101 6 27

172 Isolation, characterization and purification of xylanase producing bacteria from sea sediment. *Biocatalysis and Agricultural Biotechnology*, **2018**, 13, 299-303 4.2 12

171 Theoretical and experimental investigation on the removal of oil spill by selective sorbents. *Journal of Industrial and Engineering Chemistry*, **2018**, 63, 1-11 6.3 11

170	Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified Ceiba pentandra seeds. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 62, 446-461	6.3	22
169	Polycyclic Aromatic Hydrocarbons from Petroleum Oil Industry Activities: Effect on Human Health and Their Biodegradation. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 185-199	0.8	13
168	Isolation, structure elucidation and anticancer activity from <i>Brevibacillus brevis</i> EGS 9 that combats Multi Drug Resistant actinobacteria. <i>Microbial Pathogenesis</i> , <b>2018</b> , 115, 146-153	3.8	3
167	Pesticides Bioremediation. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 197-222	0.8	10
166	Biosorption Strategies in the Remediation of Toxic Pollutants from Contaminated Water Bodies. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 127-163	0.8	2
165	Bioremediation of Heavy Metals. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 165-195	0.8	9
164	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> , <b>2018</b> , 114, 107-122	5.5	79
163	Evaluation of Next-Generation Sequencing Technologies for Environmental Monitoring in Wastewater Abatement. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 29-52	0.8	3
162	Green Chemistry in Textiles <b>2018</b> , 53-73		0
161	Modeling and analysis of a packed-bed column for the effective removal of zinc from aqueous solution using dual surface-modified biomass. <i>Particulate Science and Technology</i> , <b>2018</b> , 36, 934-944	2	12
160	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> , <b>2018</b> , 59, 230-241	6.3	76
159	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal. <i>Journal of Cleaner Production</i> , <b>2018</b> , 172, 92-105	10.3	80
158	Recycled Fibres <b>2018</b> , 1-17		0
157	New Tools and Techniques for Measuring Sustainability in Clothing <b>2018</b> , 89-111		
156	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> , <b>2018</b> , 193, 1-13	10.3	73
155	Laser-Based Apparel Production <b>2018</b> , 1-20		
154	Evaluation of environmental aspects of brew waste-based carbon production and its disposal scenario. <i>Journal of Cleaner Production</i> , <b>2018</b> , 202, 244-252	10.3	10
153	Nanocomposites: Recent Trends and Engineering Applications. <i>Nano Hybrids and Composites</i> , <b>2018</b> , 20, 65-80	0.7	4



152	A Biological Approach for the Removal of Pharmaceutical Pollutants from Wastewater <b>2018</b> , 117-137		1
151	Application of Biomaterials in Dye Wastewater Treatment <b>2018</b> , 131-158		
150	Characterization and Optimization Studies on Hydroxyapatite Bioceramic Powder from Waste Eggshells <b>2018</b> , 307-326		
149	Sustainable Wet Processing An Alternative Source for Detoxifying Supply Chain in Textiles <b>2018</b> , 37-60		6
148	Nano-zero valent iron impregnated cashew nut shell: a solution to heavy metal contaminated water/wastewater. <i>IET Nanobiotechnology</i> , <b>2018</b> , 12, 591-599	2	11
147	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 60, 307-320	6.3	51
146	Eco-Friendly Treatment Strategies for Wastewater Containing Dyes and Heavy Metals. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 317-360	0.8	9
145	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> , <b>2018</b> , 60, 418-430	6.3	75
144	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: Kinetic and isotherm modelling. <i>Bioresource Technology</i> , <b>2018</b> , 250, 716-722	11	122
143	Biomining of Natural Resources. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 313-342	0.8	2
142	Chitosan as a biosorbent for adsorption of iron (II) from fracking wastewater. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 961-969	3.2	18
141	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> , <b>2017</b> , 8, 167-173	4	26
140	Nanoscale zero-valent iron-impregnated agricultural waste as an effective biosorbent for the removal of heavy metal ions from wastewater. <i>Textiles and Clothing Sustainability</i> , <b>2017</b> , 2,		9
139	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> , <b>2017</b> , 50, 45-57	5.8	67
138	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> , <b>2017</b> , 7, 214-227	2.6	23
137	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> , <b>2017</b> , 21, 04017004	2.3	15
136	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> , <b>2017</b> , 11, 1-11	5.3	67
135	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 2782-2799	6.8	651

134	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalised magnetic nanoparticles. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 433-442	2	28
133	Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India. <i>Microbial Pathogenesis</i> , <b>2017</b> , 107, 225-233	3.8	11
132	A simplified model for evaluating best biodiesel production method: Fuzzy analytic hierarchy process approach. <i>Sustainable Materials and Technologies</i> , <b>2017</b> , 12, 18-22	5.3	8
131	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> , <b>2017</b> , 2, 1	5.1	49
130	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> . <i>Microbial Pathogenesis</i> , <b>2017</b> , 102, 166-172	3.8	5
129	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> , <b>2017</b> , 11, 19-27	5.3	38
128	Construction of active bio-nanocomposite by inseminated metal nanoparticles onto activated carbon: probing to antimicrobial activity. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 746-753	2	25
127	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2787-2805	2.8	27
126	Optimization of media components for production of antimicrobial compound by <i>Brevibacillus brevis</i> EGS9 isolated from mangrove ecosystem. <i>Journal of Microbiological Methods</i> , <b>2017</b> , 142, 83-89	2.8	6
125	Green synthesis of metal nanoparticles loaded ultrasonic-assisted <i>Spirulina platensis</i> using algal extract and their antimicrobial activity. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 754-758	2	18
124	Introduction to sustainable fibres and textiles <b>2017</b> , 1-18		4
123	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> , <b>2017</b> , 56, 129-144	6.3	92
122	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> , <b>2017</b> , 110, 379-385	3.9	43
121	Higher adsorption capacity of alga for Cr(VI) ions removal: parameter optimisation, equilibrium, kinetic and thermodynamic predictions. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 317-328	2	25
120	Review on nanoadsorbents: a solution for heavy metal removal from wastewater. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 213-224	2	51
119	Nanochemicals and Effluent Treatment in Textile Industries <b>2017</b> , 57-96		4
118	Functional group-assisted green synthesised superparamagnetic nanoparticles for the rapid removal of hexavalent chromium from aqueous solution. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 852-860	2	14
117	Sorption of Cu(II) ions by nano-scale zero valent iron supported on rubber seed shell. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 714-724	2	27

116	Sustainable wastewater treatments in textile sector <b>2017</b> , 323-346		29
115	Biosorption of lead(II) ions onto nano-sized chitosan particle blended polyvinyl alcohol (PVA): adsorption isotherms, kinetics and equilibrium studies. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 13711-13721		13
114	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> , <b>2016</b> , 57, 14530-14543		21
113	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> , <b>2016</b> , 13, 127-136	6.7	79
112	Removal of turbidity from washing machine discharge using <i>Strychnos potatorum</i> seeds: Parameter optimization and mechanism prediction. <i>Resource-efficient Technologies</i> , <b>2016</b> , 2, S171-S176	2	8
111	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 104, 185-195	5.5	48
110	Influence of ultrasonication on preparation of novel material for heavy metal removal from wastewater. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 2716-2731	2.8	22
109	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 39, 162-175	6.3	63
108	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> , <b>2016</b> , 97, 198-203	3.8	23
107	Adsorption of copper ions onto nano-scale zero-valent iron impregnated cashew nut shell. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 6487-6502		35
106	Enhanced photocatalytic decolorization of reactive red by sonocatalysis using TiO <sub>2</sub> catalyst: factorial design of experiments. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 7120-7129		7
105	Experimental study on parameter estimation and mechanism for the removal of turbidity from groundwater and synthetic water using <i>Moringa oleifera</i> seed powder. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 5488-5497		6
104	Adsorption of toxic Cr(VI) ions from aqueous solution by sulphuric acid modified <i>Strychnos potatorum</i> seeds in batch and column studies. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 12585-12607		15
103	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> , <b>2016</b> , 134, 440-444	7	18
102	Biosorption of hexavalent chromium from aqueous solution using raw and acid-treated biosorbent prepared from <i>Lantana camara</i> fruit. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 25097-25113		13
101	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> , <b>2016</b> , 57, 25114-25139		16
100	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> , <b>2016</b> , 214, 335-346	6	85
99	Ultrasonic-assisted activated biomass ( <i>fishtail palm Caryota urens</i> seeds) for the sequestration of copper ions from wastewater. <i>Research on Chemical Intermediates</i> , <b>2016</b> , 42, 3117-3146	2.8	16

98	Removal of toxic zinc from water/wastewater using eucalyptus seeds activated carbon: non-linear regression analysis. <i>IET Nanobiotechnology</i> , <b>2016</b> , 10, 244-53	2	25
97	Green synthesis of novel silver nanocomposite hydrogel based on sodium alginate as an efficient biosorbent for the dye wastewater treatment: prediction of isotherm and kinetic parameters. <i>Desalination and Water Treatment</i> , <b>2016</b> , 1-14		8
96	Isolation and identification of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> from prawn ( <i>Penaeus monodon</i> ) seafood: Preservation strategies. <i>Microbial Pathogenesis</i> , <b>2016</b> , 99, 5-13	3.8	14
95	Synthesis, antimicrobial and cytotoxic evaluation of spirooxindole[pyrano-bis-2H-l-benzopyrans]. <i>Medicinal Chemistry Research</i> , <b>2016</b> , 25, 2155-2170	2.2	27
94	Application of MnO <sub>2</sub> nanorods as catalyst in single step production of biodiesel from palm oil. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2016</b> , 38, 2104-2110	1.6	
93	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. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 8681-8698	2.8	7
92	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> , <b>2015</b> , 98, 187-197	5.5	63
91	Removal and recovery of Ni(II) ions from synthetic wastewater using surface modified <i>Strychnos potatorum</i> seeds: experimental optimization and mechanism. <i>Desalination and Water Treatment</i> , <b>2015</b> , 53, 171-182		12
90	Novel adsorbent from agricultural waste (cashew NUT shell) for methylene blue dye removal: Optimization by response surface methodology. <i>Water Resources and Industry</i> , <b>2015</b> , 11, 64-70	4.5	111
89	Productivity enhancement of a single basin solar still. <i>Desalination and Water Treatment</i> , <b>2015</b> , 55, 1998-2008		10
88	Experimental study on the performance and emission measures of direct injection diesel engine with Kapok methyl ester and its blends. <i>Renewable Energy</i> , <b>2015</b> , 74, 903-909	8.1	43
87	Removal of fluoride from aqueous media by magnesium oxide-coated nanoparticles. <i>Desalination and Water Treatment</i> , <b>2015</b> , 53, 2905-2914		26
86	Adsorption kinetic, equilibrium and thermodynamic investigations of Zn(II) and Ni(II) ions removal by poly(azomethine thioamide) resin with pendent chlorobenzylidene ring. <i>Polish Journal of Chemical Technology</i> , <b>2015</b> , 17, 100-109	1	4
85	Binding of Zn(II) ions to chitosan-BVA blend in aqueous environment: Adsorption kinetics and equilibrium studies. <i>Environmental Progress and Sustainable Energy</i> , <b>2015</b> , 34, 15-22	2.5	53
84	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. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 276-283	2.8	13
83	Adsorption of lead(II) ions from simulated wastewater using natural waste: A kinetic, thermodynamic and equilibrium study. <i>Environmental Progress and Sustainable Energy</i> , <b>2014</b> , 33, 55-64	2.5	49
82	EFFECT OF TEMPERATURE ON THE ADSORPTION OF METHYLENE BLUE DYE ONTO SULFURIC ACID-TREATED ORANGE PEEL. <i>Chemical Engineering Communications</i> , <b>2014</b> , 201, 1526-1547	2.2	71
81	Adsorption of dye onto raw and surface modified tamarind seeds: isotherms, process design, kinetics and mechanism. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 2620-2633		60

80	Sargassum wightii, a marine alga is the source for the production of algal oil, bio-oil, and application in the dye wastewater treatment. <i>Desalination and Water Treatment</i> , <b>2014</b> , 1-17		11
79	Study of adsorption kinetic, mechanism, isotherm, thermodynamic, and design models for Cu(II) ions on sulfuric acid-modified Eucalyptus seeds: temperature effect. <i>Desalination and Water Treatment</i> , <b>2014</b> , 1-18		8
78	Adsorption of basic dye onto raw and surface-modified agricultural waste. <i>Environmental Progress and Sustainable Energy</i> , <b>2014</b> , 33, 87-98	2.5	70
77	Adsorption kinetics, mechanism, isotherm, and thermodynamic analysis of copper ions onto the surface modified agricultural waste. <i>Environmental Progress and Sustainable Energy</i> , <b>2014</b> , 33, 28-37	2.5	68
76	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> , <b>2014</b> , 45, 2957-2968	5.3	76
75	ADSORPTION OF METHYLENE BLUE DYE ONTO SURFACE MODIFIED CASHEW NUT SHELL. <i>Environmental Engineering and Management Journal</i> , <b>2014</b> , 13, 545-556	0.6	13
74	REMOVAL OF Cu (II) IONS FROM AQUEOUS SOLUTION BY ADSORPTION ONTO ACTIVATED CARBON PRODUCED FROM Guazuma ulmifolia SEEDS. <i>Environmental Engineering and Management Journal</i> , <b>2014</b> , 13, 905-914	0.6	7
73	Adsorption of Pb(II) ions onto surface modified Guazuma ulmifolia seeds and batch adsorber design. <i>Environmental Progress and Sustainable Energy</i> , <b>2013</b> , 32, 307-316	2.5	10
72	Adsorption behavior of methylene blue dye onto surface modified Strychnos potatorum seeds. <i>Environmental Progress and Sustainable Energy</i> , <b>2013</b> , 32, 624-632	2.5	58
71	Kinetic and equilibrium studies on the biosorption of textile dyes onto Plantago ovata seeds. <i>Korean Journal of Chemical Engineering</i> , <b>2013</b> , 30, 1248-1256	2.8	12
70	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> , <b>2013</b> , 91, 1950-1956	2.3	55
69	Adsorption of Zn(II) ions from aqueous environment by surface modified Strychnos potatorum seeds, a low cost adsorbent. <i>Polish Journal of Chemical Technology</i> , <b>2013</b> , 15, 35-41	1	9
68	Adsorption of Cu(II), Cd(II) and Ni(II) ions from aqueous solution by unmodified Strychnos potatorum seeds. <i>European Journal of Environmental and Civil Engineering</i> , <b>2013</b> , 17, 293-314	1.5	12
67	Removal of free fatty acids in Pongamia Pinnata (Karanja) oil using divinylbenzene-styrene copolymer resins for biodiesel production. <i>Biomass and Bioenergy</i> , <b>2012</b> , 37, 335-341	5.3	15
66	Adsorption of Metal Ions onto the Chemically Modified Agricultural Waste. <i>Clean - Soil, Air, Water</i> , <b>2012</b> , 40, 188-197	1.6	64
65	Preparation and characterization of porous cross linked laccase aggregates for the decolorization of triphenyl methane and reactive dyes. <i>Bioresource Technology</i> , <b>2012</b> , 119, 28-34	11	64
64	Kinetics, mechanism, isotherm and thermodynamic analysis of adsorption of cadmium ions by surface-modified Strychnos potatorum seeds. <i>Korean Journal of Chemical Engineering</i> , <b>2012</b> , 29, 1752-1760	2.8	22
63	Two step biodiesel production from Calophyllum inophyllum oil: Studies on thermodynamic and kinetic modelling of modified Zeolite catalysed pre-treatment. <i>Canadian Journal of Chemical Engineering</i> , <b>2012</b> , 90, 1178-1185	2.3	6

62	Removal of cadmium(II) from aqueous solution by agricultural waste cashew nut shell. <i>Korean Journal of Chemical Engineering</i> , <b>2012</b> , 29, 756-768	2.8	93
61	Adsorption of methylene blue dye from aqueous solution by agricultural waste: Equilibrium, thermodynamics, kinetics, mechanism and process design. <i>Colloid Journal</i> , <b>2011</b> , 73, 651-661	1.1	58
60	Geometries, electronic structures and vibrational spectral studies of 4-aminophthalonitrile using quantum chemical calculations for dye sensitized solar cells. <i>Indian Journal of Physics</i> , <b>2011</b> , 85, 1477-1494	1.4	10
59	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> , <b>2011</b> , 28, 149-155	2.8	110
58	Thermodynamic, kinetic, and equilibrium studies on phenol removal by use of cashew nut shell. <i>Canadian Journal of Chemical Engineering</i> , <b>2011</b> , 89, 284-291	2.3	11
57	Adsorption behavior of nickel(II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design. <i>Chemical Engineering Journal</i> , <b>2011</b> , 167, 122-131	14.7	226
56	Lead(II) Adsorption onto Sulphuric Acid Treated Cashew Nut Shell. <i>Separation Science and Technology</i> , <b>2011</b> , 46, 2436-2449	2.5	60
55	Anticancer studies of drug encapsulated polyethylene terephthalate-Co-poly(lactic acid) nanocapsules. <i>Journal of Pharmacy and Bioallied Sciences</i> , <b>2011</b> , 3, 286-93	1.1	4
54	DFT and TD-DFT Calculations of Some Metal Free Phthalonitrile Derivatives for Enhancement of the Dye Sensitized Solar Cells. <i>Acta Physica Polonica A</i> , <b>2011</b> , 119, 395-404	0.6	8
53	ADSORPTION EQUILIBRIUM STUDIES ON COPPER (II) IONS REMOVAL BY NATURAL WASTE USING NON-LINEAR APPROACH. <i>Environmental Engineering and Management Journal</i> , <b>2011</b> , 10, 285-295	0.6	1
52	Thermodynamic and kinetic studies of cadmium adsorption from aqueous solution onto rice husk. <i>Brazilian Journal of Chemical Engineering</i> , <b>2010</b> , 27, 347-355	1.7	123
51	Recovery and reuse of hexavalent chromium from aqueous solutions by a hybrid technique of electrodialysis and ion exchange. <i>Brazilian Journal of Chemical Engineering</i> , <b>2010</b> , 27, 71-78	1.7	20
50	Removal of Congo red from aqueous solutions by neem saw dust carbon. <i>Colloid Journal</i> , <b>2010</b> , 72, 703-709	1.0	9
49	Kinetics and adsorption equilibrium in the system aqueous solution of copper ions granulated activated carbon. <i>Russian Chemical Bulletin</i> , <b>2010</b> , 59, 1859-1864	1.7	8
48	Molecular modeling of 3,4-pyridinedicarbonitrile dye sensitizer for solar cells using quantum chemical calculations. <i>Journal of Saudi Chemical Society</i> , <b>2010</b> , 14, 399-407	4.3	4
47	Adsorption of dye from aqueous solution by cashew nut shell: Studies on equilibrium isotherm, kinetics and thermodynamics of interactions. <i>Desalination</i> , <b>2010</b> , 261, 52-60	10.3	545
46	Kinetics and equilibrium studies of Pb <sup>2+</sup> in removal from aqueous solutions by use of nano-silver-sol-coated activated carbon. <i>Brazilian Journal of Chemical Engineering</i> , <b>2010</b> , 27, 339-346	1.7	88
45	Experimentation on solvent extraction of polyphenols from natural waste. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 5894-5899	4.3	15

44	Bael Tree Leaves as a Natural Adsorbent for the Removal of Zinc(II) Ions from Industrial Effluents. <i>Adsorption Science and Technology</i> , <b>2009</b> , 27, 503-512	3.6	4
43	Management of Chromium Plating Rinsewater Using Electrochemical Ion Exchange. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 2279-2286	3.9	61
42	Removal of Hexavalent Chromium Ions from Aqueous Solutions by an Anion-Exchange Resin. <i>Adsorption Science and Technology</i> , <b>2008</b> , 26, 693-703	3.6	16
41	Application of silk sericin to polyester fabric. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 314-321	2.9	53
40	High temperature XRD studies of nanoscale Ag <sub>100</sub> solid solutions. <i>Journal of Physics and Chemistry of Solids</i> , <b>2006</b> , 67, 1809-1816	3.9	1
39	Electrochemical Enhancement of Binary CuSe <sub>2</sub> @MoSe <sub>2</sub> Composite Nanorods for Supercapacitor Application. <i>Topics in Catalysis</i> , 1	2.3	0
38	Advanced catalysts and effect of operating parameters in ethanol dry reforming for hydrogen generation. A review. <i>Environmental Chemistry Letters</i> , 1	13.3	1
37	Extraction, purification and applications of biosurfactants based on microbial-derived glycolipids and lipopeptides: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	1
36	Recent Progression of Flower Like ZnSe@MoSe <sub>2</sub> Designed as an Electrocatalyst for Enhanced Supercapacitor Performance. <i>Topics in Catalysis</i> , 1	2.3	0
35	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review 68, 245-266		43
34	Antimicrobial activity of Mukia maderasapatna stem extract of jujube seeds activated carbon against gram-positive/gram-negative bacteria and fungi strains: Application in heavy metal removal 72, 418-427		2
33	An insight into the prediction of biosorption mechanism, and isotherm, kinetic and thermodynamic studies for Ni(II) ions removal from aqueous solution using acid treated biosorbent: the Lantana camara fruit 80, 276-287		3
32	A review on analytical methods and treatment techniques of pharmaceutical wastewater 87, 160-178		20
31	Treatment of municipal wastewater using <i>Scenedesmus abundans</i> and studies on saccharification of grown biomass using ultrasound assistance 89, 94-100		4
30	Chitosan anchored zinc oxide nanocomposite as modified electrochemical sensor for the detection of Cd(II) ions 97, 295-303		5
29	Intensified degradation of pharmaceutical effluents by novel aerobic iron-swarf activated molecular oxygen in the presence of ascorbic 102, 273-279		3
28	Mass transfer and thermodynamic analysis on the removal of naphthalene from aqueous solution using oleic acid modified palm shell activated carbon 106, 238-250		10
27	Enhanced photocatalytic activity of environment-friendly C/ZnFe <sub>2</sub> O <sub>4</sub> nanocomposites: application in dye removal 137, 395-402		6

26	Adsorption capability of surface-modified jujube seeds for Cd(II), Cu(II) and Ni(II) ions removal: mechanism, equilibrium, kinetic and thermodynamic analysis140, 268-282		10
25	Critical review on biological treatment strategies of dairy wastewater160, 94-109		13
24	A critical review on recent developments in the low-cost adsorption of dyes from wastewater172, 395-416		51
23	Synthesis and characterization of ultrasonic assisted Delonix regia seeds: modelling and application in dye adsorption173, 427-441		5
22	Feasibility of naphthol green-B dye adsorption using microalgae: thermodynamic and kinetic analysis192, 358-370		12
21	A review on fluoride: treatment strategies and scope for further research200, 167-186		3
20	Kinetic and thermodynamic analysis on the abolition of toxic metals from wastewater using activated carbon produced from compost waste204, 270-284		4
19	Methods for chemical conversion of plastic wastes into fuels and chemicals. A review. <i>Environmental Chemistry Letters</i> ,1	13.3	3
18	Digital colorimetric analysis for estimation of iron in water with smartphone-assisted microfluidic paper-based analytical devices. <i>International Journal of Environmental Analytical Chemistry</i> ,1-18	1.8	2
17	Surfactant-aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbon (PAHs): progress, limitation, and countermeasures. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	7
16	Effect of physiological and morphological response of Musa acuminata under stress condition with different salinity levels using IoT. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	0
15	Effective removal of naphthalene from contaminated soil using halotolerant bacterial strains and vermiremediation techniques. <i>International Journal of Environmental Analytical Chemistry</i> ,1-18	1.8	2
14	Preparation of PAN/lycopene-TiO <sub>2</sub> nanocomposite membrane for azo dye degradation216, 436-444		3
13	Prediction on water quality of a lake in Chennai, India using machine learning algorithms218, 44-51		2
12	Effective separation of toxic phenol from aquatic system using membrane assisted solvent extraction system221, 316-327		4
11	Green synthesis of copper nanoparticles using Sesbania aculeata to enhance the plant growth and antimicrobial activities. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	4
10	An efficient lab-scale soil bioreactor for the removal of chromium (Cr) and arsenic (As) contaminated soil using co-culture. <i>International Journal of Environmental Analytical Chemistry</i> ,1-20	1.8	
9	Recent advances in biotransformation of 5-Hydroxymethylfurfural: challenges and future aspects. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	7



8	Hydrothermal Synthesis of Flower Like MnSe <sub>2</sub> @MoSe <sub>2</sub> Electrode for Supercapacitor Applications. <i>Topics in Catalysis</i> ,1	2.3	2
7	Automated weed detection system in smart farming for developing sustainable agriculture. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	0
6	Two-dimensional hybrid perovskite solar cells: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	1
5	Mapping and Scientometric Measures on Research Publications of Energy Storage and Conversion. <i>Topics in Catalysis</i> ,1	2.3	
4	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
3	Biocatalytic polymeric membranes to decrease biofilm fouling and remove organic contaminants in wastewater: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	0
2	Production of hydrogen and value-added carbon materials by catalytic methane decomposition: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	0
1	Recent review on electron transport layers in perovskite solar cells. <i>International Journal of Energy Research</i> ,	4.5	3