

A Saravanan

List of Publications by Year in descending order

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59
papers

5,051
citations

147726

31
h-index

161767

54
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59
all docs

59
docs citations

59
times ranked

4168
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial electrolysis cells and microbial fuel cells for biohydrogen production: current advances and emerging challenges. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8403-8423.	2.9	24
2	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. <i>Bioresource Technology</i> , 2022, 344, 126203.	4.8	129
3	Sustainable strategy on microbial fuel cell to treat the wastewater for the production of green energy. <i>Chemosphere</i> , 2022, 290, 133295.	4.2	22
4	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> , 2022, 812, 152456.	3.9	53
5	Degradation of toxic agrochemicals and pharmaceutical pollutants: Effective and alternative approaches toward photocatalysis. <i>Environmental Pollution</i> , 2022, 298, 118844.	3.7	78
6	Development of lab-on-chip biosensor for the detection of toxic heavy metals: A review. <i>Chemosphere</i> , 2022, 299, 134427.	4.2	23
7	Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review. <i>Chemosphere</i> , 2022, 298, 134284.	4.2	25
8	Removal of toxic heavy metals using genetically engineered microbes: Molecular tools, risk assessment and management strategies. <i>Chemosphere</i> , 2022, 298, 134341.	4.2	31
9	Ultrasonic Functionalized Egg Shell Powder for the Adsorption of Cationic Dye: Equilibrium and Kinetic Studies. <i>Adsorption Science and Technology</i> , 2022, 2022, .	1.5	5
10	A review on biosynthesis of metal nanoparticles and its environmental applications. <i>Chemosphere</i> , 2021, 264, 128580.	4.2	227
11	Adsorption characteristics of magnetic nanoparticles coated mixed fungal biomass for toxic Cr(VI) ions in aquatic environment. <i>Chemosphere</i> , 2021, 267, 129226.	4.2	83
12	Methods of detection of food-borne pathogens: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 189-207.	8.3	98
13	Effective removal of Cr(VI) ions from synthetic solution using mixed biomasses: Kinetic, equilibrium and thermodynamic study. <i>Journal of Water Process Engineering</i> , 2021, 40, 101905.	2.6	30
14	A review on algal-bacterial symbiotic system for effective treatment of wastewater. <i>Chemosphere</i> , 2021, 271, 129540.	4.2	121
15	Ultrasonic assisted agro waste biomass for rapid removal of Cd(II) ions from aquatic environment: Mechanism and modelling analysis. <i>Chemosphere</i> , 2021, 271, 129484.	4.2	23
16	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. <i>Chemosphere</i> , 2021, 271, 129519.	4.2	53
17	Adsorptive Removal of Malachite Green Dye onto Coal-Associated Soil and Conditions Optimization. <i>Adsorption Science and Technology</i> , 2021, 2021, 1-11.	1.5	11
18	A comprehensive review on different approaches for CO ₂ utilization and conversion pathways. <i>Chemical Engineering Science</i> , 2021, 236, 116515.	1.9	190

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19	Modeling analysis on the effective elimination of toxic pollutant from aquatic environment using pyrolysis assisted palmyra palm male inflorescence. <i>Environmental Research</i> , 2021, 197, 111146.	3.7	15
20	Mixed biosorbent of agro waste and bacterial biomass for the separation of Pb(II) ions from water system. <i>Chemosphere</i> , 2021, 277, 130236.	4.2	70
21	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. <i>Journal of Hazardous Materials</i> , 2021, 419, 126451.	6.5	129
22	Advances in biosorbents for removal of environmental pollutants: A review on pretreatment, removal mechanism and future outlook. <i>Journal of Hazardous Materials</i> , 2021, 420, 126596.	6.5	72
23	Effective water/wastewater treatment methodologies for toxic pollutants removal: Processes and applications towards sustainable development. <i>Chemosphere</i> , 2021, 280, 130595.	4.2	397
24	Photocatalytic disinfection of micro-organisms: Mechanisms and applications. <i>Environmental Technology and Innovation</i> , 2021, 24, 101909.	3.0	27
25	Adsorptive removal of Pb(II) ions onto surface modified adsorbents derived from Cassia fistula seeds: Optimization and modelling study. <i>Chemosphere</i> , 2021, 283, 131276.	4.2	30
26	Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects. <i>Bioresource Technology</i> , 2021, 342, 126021.	4.8	68
27	Sequestration of toxic Pb(II) ions using ultrasonic modified agro waste: Adsorption mechanism and modelling study. <i>Chemosphere</i> , 2021, 285, 131502.	4.2	14
28	Adsorbents based on chemically modified natural polymers. , 2021, , 223-241.		0
29	Treatment of Dye Containing Wastewater Using Agricultural Biomass Derived Magnetic Adsorbents. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 149-169.	0.3	2
30	Rhizoremediation – A promising tool for the removal of soil contaminants: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103543.	3.3	58
31	A critical review on the biochar production techniques, characterization, stability and applications for circular bioeconomy. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 28, e00570.	2.1	308
32	Bioconversion of municipal solid waste into bio-based products: A review on valorisation and sustainable approach for circular bioeconomy. <i>Science of the Total Environment</i> , 2020, 748, 141312.	3.9	83
33	Effective adsorption of Cu(II) ions on sustainable adsorbent derived from mixed biomass (<i>Aspergillus</i>) Tj ETQq1 1 0.784314 rgBT /Oved Development, 2020, 11, 100460.	2.3	41
34	Enhanced Zn(II) ion adsorption on surface modified mixed biomass – <i>Borassus flabellifer</i> and <i>Aspergillus tamarii</i> : Equilibrium, kinetics and thermodynamics study. <i>Industrial Crops and Products</i> , 2020, 153, 112613.	2.5	53
35	Production of pigment using <i>Aspergillus tamarii</i> : New potentials for synthesizing natural metabolites. <i>Environmental Technology and Innovation</i> , 2020, 19, 100967.	3.0	9
36	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> , 2020, 11, 175-187.	1.4	20

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37	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> , 2020, 20, 100520.	1.5	40
38	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. <i>Bioresource Technology</i> , 2019, 292, 122030.	4.8	231
39	Molecular characterization of chromium resistant gram-negative bacteria isolated from industrial effluent: Bioremedial activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 640-646.	2.9	8
40	Enhanced PAHs removal using pyrolysis-assisted potassium hydroxide induced palm shell activated carbon: Batch and column investigation. <i>Journal of Molecular Liquids</i> , 2019, 279, 77-87.	2.3	51
41	A review on photochemical, biochemical and electrochemical transformation of CO ₂ into value-added products. <i>Journal of CO₂ Utilization</i> , 2019, 33, 131-147.	3.3	303
42	Diffusion of Multiwall Carbon Nanotubes into Industrial Polymers. , 2019, 23, 213-221.		0
43	Removal of toxic pollutants from water environment by phytoremediation: A survey on application and future prospects. <i>Environmental Technology and Innovation</i> , 2019, 13, 264-276.	3.0	168
44	Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (<i>Pseudomonas</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 45	2.3	45
45	Sustainability in Wastewater Treatment in Textiles Sector. <i>Textile Science and Clothing Technology</i> , 2018, , 67-97.	0.4	1
46	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> , 2018, 36, 934-944.	1.1	18
47	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal. <i>Journal of Cleaner Production</i> , 2018, 172, 92-105.	4.6	96
48	Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga <i>Rhizoclonium hookeri</i> : adsorption thermodynamics, kinetics, and equilibrium studies. <i>Journal of Water Reuse and Desalination</i> , 2017, 7, 214-227.	1.2	33
49	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon. <i>Sustainable Materials and Technologies</i> , 2017, 11, 1-11.	1.7	82
50	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2782-2799.	3.3	1,066
51	Removal of toxic Cr(VI) ions from tannery industrial wastewater using a newly designed three-phase three-dimensional electrode reactor. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 110, 379-385.	1.9	55
52	Isolation and identification of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> from prawn (<i>Penaeus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 19	1.3	19
53	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 39, 162-175.	2.9	78
54	Synthesis and characterization of metallic nanoparticles impregnated onto activated carbon using leaf extract of <i>Mukia maderasapatna</i> : Evaluation of antimicrobial activities. <i>Microbial Pathogenesis</i> , 2016, 97, 198-203.	1.3	33

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55	Biosorption of Pb(II), Ni(II) and Cr(VI) ions from aqueous solution using <i>Rhizoclonium tortuosum</i> : extended application to nickel plating industrial wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 25114-25139.	1.0	21
56	Ultrasonic-assisted activated biomass (fishtail palm <i>Caryota urens</i> seeds) for the sequestration of copper ions from wastewater. <i>Research on Chemical Intermediates</i> , 2016, 42, 3117-3146.	1.3	19
57	Optimization of process parameters for the removal of chromium(VI) and nickel(II) from aqueous solutions by mixed biosorbents (custard apple seeds and <i>Aspergillus niger</i>) using response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 14530-14543.	1.0	33
58	Mass transfer and thermodynamic analysis on the removal of naphthalene from aqueous solution using oleic acid modified palm shell activated carbon. , 0, 106, 238-250.		23
59	Removal of Zn(II) ions from aqueous solution using chemically modified <i>Annona reticulata</i> seeds; kinetics, isotherm and thermodynamics. , 0, 122, 66-77.		6