

Dr Saravanan Anbalagan

List of Publications by Year in descending order

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82
papers

4,875
citations

147801

31
h-index

118850

62
g-index

84
all docs

84
docs citations

84
times ranked

4492
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. Journal of Environmental Chemical Engineering, 2017, 5, 2782-2799.	6.7	1,066
2	A critical review on the biochar production techniques, characterization, stability and applications for circular bioeconomy. Biotechnology Reports (Amsterdam, Netherlands), 2020, 28, e00570.	4.4	308
3	A review on photochemical, biochemical and electrochemical transformation of CO ₂ into value-added products. Journal of CO ₂ Utilization, 2019, 33, 131-147.	6.8	303
4	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. Bioresource Technology, 2019, 292, 122030.	9.6	231
5	A review on biosynthesis of metal nanoparticles and its environmental applications. Chemosphere, 2021, 264, 128580.	8.2	227
6	A comprehensive review on different approaches for CO ₂ utilization and conversion pathways. Chemical Engineering Science, 2021, 236, 116515.	3.8	190
7	Removal of toxic pollutants from water environment by phytoremediation: A survey on application and future prospects. Environmental Technology and Innovation, 2019, 13, 264-276.	6.1	168
8	Photocatalysis for removal of environmental pollutants and fuel production: a review. Environmental Chemistry Letters, 2021, 19, 441-463.	16.2	140
9	A review on algal-bacterial symbiotic system for effective treatment of wastewater. Chemosphere, 2021, 271, 129540.	8.2	121
10	Methods of detection of food-borne pathogens: a review. Environmental Chemistry Letters, 2021, 19, 189-207.	16.2	98
11	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal. Journal of Cleaner Production, 2018, 172, 92-105.	9.3	96
12	Bioconversion of municipal solid waste into bio-based products: A review on valorisation and sustainable approach for circular bioeconomy. Science of the Total Environment, 2020, 748, 141312.	8.0	83
13	Adsorption characteristics of magnetic nanoparticles coated mixed fungal biomass for toxic Cr(VI) ions in aquatic environment. Chemosphere, 2021, 267, 129226.	8.2	83
14	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon. Sustainable Materials and Technologies, 2017, 11, 1-11.	3.3	82
15	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution. Journal of Industrial and Engineering Chemistry, 2016, 39, 162-175.	5.8	78
16	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis. Environmental Toxicology and Pharmacology, 2017, 50, 45-57.	4.0	77
17	Review on nanoadsorbents: a solution for heavy metal removal from wastewater. IET Nanobiotechnology, 2017, 11, 213-224.	3.8	77
18	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system. Journal of Industrial and Engineering Chemistry, 2018, 60, 307-320.	5.8	68

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19	A review on systematic approach for microbial enhanced oil recovery technologies: Opportunities and challenges. Journal of Cleaner Production, 2020, 258, 120777.	9.3	63
20	Rhizoremediation – A promising tool for the removal of soil contaminants: A review. Journal of Environmental Chemical Engineering, 2020, 8, 103543.	6.7	58
21	Removal of toxic Cr(VI) ions from tannery industrial wastewater using a newly designed three-phase three-dimensional electrode reactor. Journal of Physics and Chemistry of Solids, 2017, 110, 379-385.	4.0	55
22	Sustainable wastewater treatments in textile sector. , 2017, , 323-346.		53
23	Enhanced Zn(II) ion adsorption on surface modified mixed biomass – Borassus flabellifer and Aspergillus tamarii: Equilibrium, kinetics and thermodynamics study. Industrial Crops and Products, 2020, 153, 112613.	5.2	53
24	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. Chemosphere, 2021, 271, 129519.	8.2	53
25	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review. , 0, 68, 245-266.		52
26	Enhanced PAHs removal using pyrolysis-assisted potassium hydroxide induced palm shell activated carbon: Batch and column investigation. Journal of Molecular Liquids, 2019, 279, 77-87.	4.9	51
27	Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (Pseudomonas) Tj ETQq1 1 0.784314 rgBT /Overd	4.9	45
28	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review. Korean Journal of Chemical Engineering, 2017, 34, 2787-2805.	2.7	43
29	Effective adsorption of Cu(II) ions on sustainable adsorbent derived from mixed biomass (Aspergillus) Tj ETQq1 1 0.784314 rgBT /Overd Development, 2020, 11, 100460.	4.6	41
30	Optimization and modeling of reactive yellow adsorption by surface modified Delonix regia seed: Study of nonlinear isotherm and kinetic parameters. Surfaces and Interfaces, 2020, 20, 100520.	3.0	40
31	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalised magnetic nanoparticles. IET Nanobiotechnology, 2017, 11, 433-442.	3.8	36
32	Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified Ceiba pentandra seeds. Journal of Industrial and Engineering Chemistry, 2018, 62, 446-461.	5.8	36
33	Synthesis and characterization of metallic nanoparticles impregnated onto activated carbon using leaf extract of Mukia maderasapatna: Evaluation of antimicrobial activities. Microbial Pathogenesis, 2016, 97, 198-203.	2.9	33
34	Optimization of process parameters for the removal of chromium(VI) and nickel(II) from aqueous solutions by mixed biosorbents (custard apple seeds and Aspergillus niger) using response surface methodology. Desalination and Water Treatment, 2016, 57, 14530-14543.	1.0	33
35	Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga Rhizoclonium hookeri: adsorption thermodynamics, kinetics, and equilibrium studies. Journal of Water Reuse and Desalination, 2017, 7, 214-227.	2.3	33
36	Phytoremediation of Cr(VI) ion contaminated soil using Black gram (Vigna mungo): Assessment of removal capacity. Journal of Environmental Chemical Engineering, 2019, 7, 103052.	6.7	32

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37	Construction of active bio-nanocomposite by inseminated metal nanoparticles onto activated carbon: probing to antimicrobial activity. IET Nanobiotechnology, 2017, 11, 746-753.	3.8	31
38	Removal of toxic zinc from water/wastewater using eucalyptus seeds activated carbon: non-linear regression analysis. IET Nanobiotechnology, 2016, 10, 244-253.	3.8	30
39	Sorption of Cu(II) ions by nano-scale zero valent iron supported on rubber seed shell. IET Nanobiotechnology, 2017, 11, 714-724.	3.8	30
40	Effective removal of Cr(VI) ions from synthetic solution using mixed biomasses: Kinetic, equilibrium and thermodynamic study. Journal of Water Process Engineering, 2021, 40, 101905.	5.6	30
41	Green synthesis of metal nanoparticles loaded ultrasonic-assisted <i>Spirulina platensis</i> using algal extract and their antimicrobial activity. IET Nanobiotechnology, 2017, 11, 754-758.	3.8	25
42	Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review. Chemosphere, 2022, 298, 134284.	8.2	25
43	Influence of ultrasonication on preparation of novel material for heavy metal removal from wastewater. Korean Journal of Chemical Engineering, 2016, 33, 2716-2731.	2.7	24
44	Microbial electrolysis cells and microbial fuel cells for biohydrogen production: current advances and emerging challenges. Biomass Conversion and Biorefinery, 2023, 13, 8403-8423.	4.6	24
45	Ultrasonic assisted agro waste biomass for rapid removal of Cd(II) ions from aquatic environment: Mechanism and modelling analysis. Chemosphere, 2021, 271, 129484.	8.2	23
46	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
47	Development of lab-on-chip biosensor for the detection of toxic heavy metals: A review. Chemosphere, 2022, 299, 134427.	8.2	23
48	Sustainable strategy on microbial fuel cell to treat the wastewater for the production of green energy. Chemosphere, 2022, 290, 133295.	8.2	22
49	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. Desalination and Water Treatment, 2016, 57, 25114-25139.	1.0	21
50	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. Bioengineered, 2020, 11, 175-187.	3.2	20
51	Isolation and identification of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> from prawn (<i>Penaeus</i>) TJ ETQq1 1 0.784314 rgBT /Qoverlock 1	2.9	19
52	Ultrasonic-assisted activated biomass (fishtail palm <i>Caryota urens</i> seeds) for the sequestration of copper ions from wastewater. Research on Chemical Intermediates, 2016, 42, 3117-3146.	2.7	19
53	Modelling on the Removal of Dye from Industrial Wastewater Using Surface Improved <i>Enteromorpha intestinalis</i> . International Journal of Environmental Research, 2019, 13, 349-366.	2.3	19
54	Modeling and analysis of a packed-bed column for the effective removal of zinc from aqueous solution using dual surface-modified biomass. Particulate Science and Technology, 2018, 36, 934-944.	2.1	18

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55	Enhanced Adsorption Capacity of Biomass through Ultrasonication for the Removal of Toxic Cadmium Ions from Aquatic System: Temperature Influence on Isotherms and Kinetics. Journal of Hazardous, Toxic, and Radioactive Waste, 2017, 21, .	2.0	17
56	Isolation, characterization and purification of xylanase producing bacteria from sea sediment. Biocatalysis and Agricultural Biotechnology, 2018, 13, 299-303.	3.1	17
57	Nano zero valent iron impregnated cashew nut shell: a solution to heavy metal contaminated water/wastewater. IET Nanobiotechnology, 2018, 12, 591-599.	3.8	14
58	Adsorptive Removal of Malachite Green Dye onto Coal-Associated Soil and Conditions Optimization. Adsorption Science and Technology, 2021, 2021, 1-11.	3.2	11
59	Production of pigment using Aspergillus tamarii: New potentials for synthesizing natural metabolites. Environmental Technology and Innovation, 2020, 19, 100967.	6.1	9
60	Biosorption of methylene blue dye by chemically modified Aspergillus japonicus MG183814: kinetics, thermodynamic and equilibrium studies. , 0, 122, 132-145.		9
61	Molecular characterization of chromium resistant gram-negative bacteria isolated from industrial effluent: Bioremedial activity. Journal of Industrial and Engineering Chemistry, 2019, 80, 640-646.	5.8	8
62	Food industry waste biorefineries. , 2020, , 407-426.		8
63	Surface improved agro-based material for the effective separation of toxic Ni(II) ions from aquatic environment. Chemosphere, 2021, 283, 131215.	8.2	8
64	Synthesis and characterization of ultrasonic assisted Delonix regia seeds: modelling and application in dye adsorption. , 0, 173, 427-441.		8
65	Removal of Zn(II) ions from aqueous solution using chemically modified Annona reticulata seeds; kinetics, isotherm and thermodynamics. , 0, 122, 66-77.		6
66	Characteristic Study of the Marine Algae <i>Sargassum sp</i>. on Metal Adsorption. American Journal of Applied Sciences, 2011, 8, 691-694.	0.2	5
67	Modeling and Cr(VI) ion uptake kinetics of Sorghum bicolor plant assisted by plant growth promoting Pannonibacter phragmetitus: an ecofriendly approach. Environmental Science and Pollution Research, 2020, 27, 27307-27318.	5.3	5
68	Ultrasonic Functionalized Egg Shell Powder for the Adsorption of Cationic Dye: Equilibrium and Kinetic Studies. Adsorption Science and Technology, 2022, 2022, .	3.2	5
69	Solid waste biorefineries. , 2020, , 3-17.		2
70	Formulation and combinatorial effect of Pseudomonas fluorescens and Bacillus coagulans as biocontrol agents. Biocatalysis and Agricultural Biotechnology, 2020, 30, 101868.	3.1	2
71	New Analytical Approaches for Pharmaceutical Wastewater Treatment Using Graphene Based Materials. , 2019, , 397-411.		2
72	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. , 0, 72, 418-427.		2

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73	Sustainable business strategies and circular economy. , 2019, , 149-167.		1
74	Wastewater biodegradability: Selection of a treatment technology. , 2021, , 235-246.		1
75	A Biological Approach for the Removal of Pharmaceutical Pollutants from Wastewater. , 2018, , 117-137.		1
76	Technologies for the Treatment of Heavy Metalâ€Contaminated Groundwater. , 2018, , 221-242.		1
77	Ab initio quantum chemical calculations of the interaction between radioactive elements and imidazolium based ionic liquids. AIP Conference Proceedings, 2018, , .	0.4	0
78	Energy Footprints of Food Products. Environmental Footprints and Eco-design of Products and Processes, 2019, , 1-18.	1.1	0
79	Social Life Cycle Assessment of Renewable Bio-Energy Products. Environmental Footprints and Eco-design of Products and Processes, 2019, , 99-111.	1.1	0
80	Characteristics of Pharmaceutical Supply Chains. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 181-205.	0.4	0
81	Pharmaceutical and Life Sciences Supply Chain Management. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 206-227.	0.4	0
82	Water Pollutants and Their Removal Techniques. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 114-133.	0.4	0