

Ponnusamy Senthil Kumar

List of Publications by Year in descending order

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589
papers

23,527
citations

10388

72
h-index

16180

124
g-index

599
all docs

599
docs citations

599
times ranked

13887
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2782-2799.	6.7	1,066
2	A review on heavy metal pollution, toxicity and remedial measures: Current trends and future perspectives. <i>Journal of Molecular Liquids</i> , 2019, 290, 111197.	4.9	855
3	Adsorption of dye from aqueous solution by cashew nut shell: Studies on equilibrium isotherm, kinetics and thermodynamics of interactions. <i>Desalination</i> , 2010, 261, 52-60.	8.2	668
4	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , 2021, 296, 126589.	9.3	628
5	Effective water/wastewater treatment methodologies for toxic pollutants removal: Processes and applications towards sustainable development. <i>Chemosphere</i> , 2021, 280, 130595.	8.2	397
6	Removal of colorants from wastewater: A review on sources and treatment strategies. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 1-19.	5.8	375
7	A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research. <i>Journal of Hazardous Materials</i> , 2021, 409, 124413.	12.4	309
8	A critical review on the biochar production techniques, characterization, stability and applications for circular bioeconomy. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 28, e00570.	4.4	308
9	A novel detection method for organophosphorus insecticide fenamiphos: Molecularly imprinted electrochemical sensor based on core-shell Co ₃ O ₄ @MOF-74 nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 174-185.	9.4	307
10	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.	6.8	303
11	Adsorption behavior of nickel(II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design. <i>Chemical Engineering Journal</i> , 2011, 167, 122-131.	12.7	280
12	Application of adsorption process for effective removal of emerging contaminants from water and wastewater. <i>Environmental Pollution</i> , 2021, 280, 116995.	7.5	238
13	A review on cleaner strategies for chromium industrial wastewater: Present research and future perspective. <i>Journal of Cleaner Production</i> , 2019, 228, 580-593.	9.3	235
14	Critical review on hazardous pollutants in water environment: Occurrence, monitoring, fate, removal technologies and risk assessment. <i>Science of the Total Environment</i> , 2021, 797, 149134.	8.0	233
15	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. <i>Bioresource Technology</i> , 2019, 292, 122030.	9.6	231
16	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection. <i>Food and Chemical Toxicology</i> , 2022, 164, 112961.	3.6	231
17	A review on biosynthesis of metal nanoparticles and its environmental applications. <i>Chemosphere</i> , 2021, 264, 128580.	8.2	227
18	A comprehensive review on different approaches for CO ₂ utilization and conversion pathways. <i>Chemical Engineering Science</i> , 2021, 236, 116515.	3.8	190

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19	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. <i>Fuel</i> , 2022, 307, 121782.	6.4	190
20	Enhanced adsorptive removal of sulfamethoxazole from water using biochar derived from hydrothermal carbonization of sugarcane bagasse. <i>Journal of Hazardous Materials</i> , 2021, 407, 124825.	12.4	171
21	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> , 2022, 12, 429-439.	9.1	171
22	A review on bioremediation approach for heavy metal detoxification and accumulation in plants. <i>Environmental Pollution</i> , 2022, 301, 119035.	7.5	169
23	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.	6.1	168
24	Thermodynamic and kinetic studies of cadmium adsorption from aqueous solution onto rice husk. <i>Brazilian Journal of Chemical Engineering</i> , 2010, 27, 347-355.	1.3	159
25	Sustainable approaches for removing Rhodamine B dye using agricultural waste adsorbents: A review. <i>Chemosphere</i> , 2022, 287, 132080.	8.2	156
26	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: Kinetic and isotherm modelling. <i>Bioresource Technology</i> , 2018, 250, 716-722.	9.6	143
27	A review on contamination and removal of sulfamethoxazole from aqueous solution using cleaner techniques: Present and future perspective. <i>Journal of Cleaner Production</i> , 2020, 250, 119553.	9.3	143
28	Photocatalysis for removal of environmental pollutants and fuel production: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 441-463.	16.2	140
29	Novel adsorbent from agricultural waste (cashew NUT shell) for methylene blue dye removal: Optimization by response surface methodology. <i>Water Resources and Industry</i> , 2015, 11, 64-70.	3.9	137
30	Removal of methylene blue dye from aqueous solution by activated carbon prepared from cashew nut shell as a new low-cost adsorbent. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 149-155.	2.7	134
31	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. <i>Journal of Hazardous Materials</i> , 2021, 419, 126451.	12.4	129
32	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. <i>Bioresource Technology</i> , 2022, 344, 126203.	9.6	129
33	Statistical analysis of adsorption isotherm models and its appropriate selection. <i>Chemosphere</i> , 2021, 276, 130176.	8.2	125
34	A review on algal-bacterial symbiotic system for effective treatment of wastewater. <i>Chemosphere</i> , 2021, 271, 129540.	8.2	121
35	A review on recent trends in the removal of emerging contaminants from aquatic environment using low-cost adsorbents. <i>Chemosphere</i> , 2022, 287, 132270.	8.2	118
36	Kinetics and equilibrium studies of Pb ²⁺ in removal from aqueous solutions by use of nano-silversol-coated activated carbon. <i>Brazilian Journal of Chemical Engineering</i> , 2010, 27, 339-346.	1.3	118

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37	Adsorption isotherm, kinetics and thermodynamic analysis of Cu(II) ions onto the dried algal biomass () Tj ETQq1 1 0,784314 rgBT /Ower	5.8	117
38	Adsorption properties and mechanism of barium (II) and strontium (II) removal from fracking wastewater using pecan shell based activated carbon. <i>Journal of Cleaner Production</i> , 2018, 193, 1-13.	9.3	117
39	A critical review on recent developments in the low-cost adsorption of dyes from wastewater. , 0, 172, 395-416.		114
40	Pecan shell based activated carbon for removal of iron(II) from fracking wastewater: Adsorption kinetics, isotherm and thermodynamic studies. <i>Chemical Engineering Research and Design</i> , 2018, 114, 107-122.	5.6	113
41	A review on sources, identification and treatment strategies for the removal of toxic Arsenic from water system. <i>Journal of Hazardous Materials</i> , 2021, 418, 126299.	12.4	113
42	Valorization of agro-industrial wastes for biorefinery process and circular bioeconomy: A critical review. <i>Bioresource Technology</i> , 2022, 343, 126126.	9.6	111
43	A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review. <i>Chemosphere</i> , 2022, 303, 135146.	8.2	110
44	Removal of cadmium(II) from aqueous solution by agricultural waste cashew nut shell. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 756-768.	2.7	108
45	Techniques and modeling of polyphenol extraction from food: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3409-3443.	16.2	107
46	EFFECT OF TEMPERATURE ON THE ADSORPTION OF METHYLENE BLUE DYE ONTO SULFURIC ACID-TREATED ORANGE PEEL. <i>Chemical Engineering Communications</i> , 2014, 201, 1526-1547.	2.6	104
47	Synthesis of nano-sized chitosan blended polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution. <i>Journal of Water Process Engineering</i> , 2016, 13, 127-136.	5.6	103
48	Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide nanoparticles for the adsorption of Ni(II) ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 230-241.	5.8	103
49	Performance study on sequestration of copper ions from contaminated water using newly synthesized high effective chitosan coated magnetic nanoparticles. <i>Journal of Molecular Liquids</i> , 2016, 214, 335-346.	4.9	102
50	Methods of detection of food-borne pathogens: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 189-207.	16.2	98
51	Conversion of green algal biomass into bioenergy by pyrolysis. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 829-849.	16.2	97
52	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.	9.3	96
53	Elimination of rhodamine B from textile wastewater using nanoparticle photocatalysts: A review for sustainable approaches. <i>Chemosphere</i> , 2022, 287, 132162.	8.2	95
54	Food preservation techniques and nanotechnology for increased shelf life of fruits, vegetables, beverages and spices: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1715-1735.	16.2	93

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55	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. <i>Environmental Technology and Innovation</i> , 2022, 25, 102114.	6.1	93
56	Adsorption of basic dye onto raw and surface-modified agricultural waste. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 87-98.	2.3	90
57	Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review. <i>Environmental Research</i> , 2022, 204, 111916.	7.5	90
58	Review on biopolymers and composites – Evolving material as adsorbents in removal of environmental pollutants. <i>Environmental Research</i> , 2022, 212, 113114.	7.5	87
59	Influence of ultrasonic waves on preparation of active carbon from coffee waste for the reclamation of effluents containing Cr(VI) ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 418-430.	5.8	86
60	A review on new aspects of lipopeptide biosurfactant: Types, production, properties and its application in the bioremediation process. <i>Journal of Hazardous Materials</i> , 2021, 407, 124827.	12.4	86
61	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. <i>Chemosphere</i> , 2021, 274, 129734.	8.2	86
62	Characteristics of thermodynamic, isotherm, kinetic, mechanism and design equations for the analysis of adsorption in Cd(II) ions-surface modified Eucalyptus seeds system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2957-2968.	5.3	84
63	Performance of montmorillonite/graphene oxide/CoFe ₂ O ₄ as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater. <i>Advanced Powder Technology</i> , 2020, 31, 3993-4004.	4.1	83
64	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.	8.0	83
65	Adsorption characteristics of magnetic nanoparticles coated mixed fungal biomass for toxic Cr(VI) ions in aquatic environment. <i>Chemosphere</i> , 2021, 267, 129226.	8.2	83
66	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.	3.3	82
67	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> , 2022, 286, 131856.	8.2	80
68	Preparation and characterization of porous cross linked laccase aggregates for the decolorization of triphenyl methane and reactive dyes. <i>Bioresource Technology</i> , 2012, 119, 28-34.	9.6	79
69	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 39, 162-175.	5.8	78
70	Degradation of toxic agrochemicals and pharmaceutical pollutants: Effective and alternative approaches toward photocatalysis. <i>Environmental Pollution</i> , 2022, 298, 118844.	7.5	78
71	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis. <i>Environmental Toxicology and Pharmacology</i> , 2017, 50, 45-57.	4.0	77
72	Review on nanoadsorbents: a solution for heavy metal removal from wastewater. <i>IET Nanobiotechnology</i> , 2017, 11, 213-224.	3.8	77

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73	Adsorptive separation of toxic metals from aquatic environment using agro waste biochar: Application in electroplating industrial wastewater. <i>Chemosphere</i> , 2021, 262, 128031.	8.2	77
74	Green synthesis of ZrO ₂ nanoparticles and nanocomposites for biomedical and environmental applications: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1309-1331.	16.2	77
75	Adsorption kinetics, mechanism, isotherm, and thermodynamic analysis of copper ions onto the surface modified agricultural waste. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 28-37.	2.3	75
76	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosan-polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach. <i>Chemical Engineering Research and Design</i> , 2015, 98, 187-197.	5.6	75
77	Adsorptive separation of Cu(II) ions from aqueous medium using thermally/chemically treated <i>Cassia fistula</i> based biochar. <i>Journal of Cleaner Production</i> , 2020, 249, 119390.	9.3	75
78	Microalgae for biofuel production and removal of heavy metals: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1905-1923.	16.2	75
79	Recent developments in photocatalytic remediation of textile effluent using semiconductor based nanostructured catalyst: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104881.	6.7	75
80	Adsorption of methylene blue dye from aqueous solution by agricultural waste: Equilibrium, thermodynamics, kinetics, mechanism and process design. <i>Colloid Journal</i> , 2011, 73, 651-661.	1.3	74
81	Adsorption of Metal Ions onto the Chemically Modified Agricultural Waste. <i>Clean - Soil, Air, Water</i> , 2012, 40, 188-197.	1.1	74
82	Production of optically pure lactic acid by microbial fermentation: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 539-556.	16.2	72
83	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.	12.4	72
84	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4137-4164.	16.2	71
85	Management of Chromium Plating Rinsewater Using Electrochemical Ion Exchange. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2279-2286.	3.7	70
86	Adsorption behavior of methylene blue dye onto surface modified <i>Strychnos potatorum</i> seeds. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 624-632.	2.3	70
87	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye. <i>Nanotechnology for Environmental Engineering</i> , 2017, 2, 1.	3.3	70
88	Mixed biosorbent of agro waste and bacterial biomass for the separation of Pb(II) ions from water system. <i>Chemosphere</i> , 2021, 277, 130236.	8.2	70
89	Lead(II) Adsorption onto Sulphuric Acid Treated Cashew Nut Shell. <i>Separation Science and Technology</i> , 2011, 46, 2436-2449.	2.5	69
90	A review on the microbial degradation of chlorpyrifos and its metabolite TCP. <i>Chemosphere</i> , 2021, 283, 131447.	8.2	69

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91	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 307-320.	5.8	68
92	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.	9.6	68
93	A review on recent advancements in recovery of valuable and toxic metals from e-waste using bioleaching approach. <i>Chemosphere</i> , 2022, 287, 132230.	8.2	68
94	Adsorption of dye onto raw and surface modified tamarind seeds: isotherms, process design, kinetics and mechanism. <i>Desalination and Water Treatment</i> , 2014, 52, 2620-2633.	1.0	67
95	Chemical, physical and biological methods to convert lignocellulosic waste into value-added products. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1129-1152.	16.2	67
96	Application of silk sericin to polyester fabric. <i>Journal of Applied Polymer Science</i> , 2008, 109, 314-321.	2.6	65
97	Binding of Zn(II) ions to chitosan-PVA blend in aqueous environment: Adsorption kinetics and equilibrium studies. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 15-22.	2.3	64
98	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution. <i>Chemical Engineering Research and Design</i> , 2016, 104, 185-195.	5.6	63
99	A review on systematic approach for microbial enhanced oil recovery technologies: Opportunities and challenges. <i>Journal of Cleaner Production</i> , 2020, 258, 120777.	9.3	63
100	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16734-16750.	7.1	63
101	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> , 2021, 269, 116173.	7.5	63
102	Conversion of food waste to energy: A focus on sustainability and life cycle assessment. <i>Fuel</i> , 2021, 302, 121069.	6.4	62
103	Adsorption isotherms, kinetics and mechanism of Pb(II) ions removal from aqueous solution using chemically modified agricultural waste. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1950-1956.	1.7	61
104	Techniques of lipid extraction from microalgae for biofuel production: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 231-251.	16.2	61
105	Sustainable adsorbents for the removal of pesticides from water: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2425-2463.	16.2	61
106	Recent advancements in rapid analysis of pesticides using nano biosensors: A present and future perspective. <i>Journal of Cleaner Production</i> , 2020, 269, 122356.	9.3	61
107	Modelling on the removal of toxic metal ions from aquatic system by different surface modified <i>Cassia fistula</i> seeds. <i>Bioresource Technology</i> , 2019, 281, 1-9.	9.6	60
108	Occurrence and removal of antibiotics from industrial wastewater. <i>Environmental Chemistry Letters</i> , 2021, 19, 1477-1507.	16.2	60

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109	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. <i>Bioresource Technology</i> , 2021, 334, 125240.	9.6	59
110	Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using <i>Casuarina equisetifolia</i> pines. <i>Chemosphere</i> , 2021, 285, 131480.	8.2	59
111	A review on adsorptive separation of toxic metals from aquatic system using biochar produced from agro-waste. <i>Chemosphere</i> , 2021, 285, 131438.	8.2	59
112	A review on recent advancements in bioenergy production using microbial fuel cells. <i>Chemosphere</i> , 2022, 288, 132512.	8.2	59
113	Rhizoremediation – A promising tool for the removal of soil contaminants: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103543.	6.7	58
114	Microbial degradation of recalcitrant pesticides: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3209-3228.	16.2	58
115	Bio-derived catalysts for production of biodiesel: A review on feedstock, oil extraction methodologies, reactors and lifecycle assessment of biodiesel. <i>Fuel</i> , 2022, 316, 123379.	6.4	58
116	Adsorption of lead(Pb^{2+}) ions from simulated wastewater using natural waste: A kinetic, thermodynamic and equilibrium study. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 55-64.	2.3	57
117	Ultrasonic-assisted synthesis of <i>Populus alba</i> activated carbon for water defluorination: Application for real wastewater. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1595-1603.	2.7	57
118	An effective separation of toxic arsenic from aquatic environment using electrochemical ion exchange process. <i>Journal of Hazardous Materials</i> , 2021, 412, 125240.	12.4	57
119	One pot Green Synthesis of Nano magnesium oxide-carbon composite: Preparation, characterization and application towards anthracene adsorption. <i>Journal of Cleaner Production</i> , 2019, 237, 117691.	9.3	56
120	Microwave pyrolysis of coal, biomass and plastic waste: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3609-3629.	16.2	56
121	Recent technologies for nutrient removal and recovery from wastewaters: A review. <i>Chemosphere</i> , 2021, 277, 130328.	8.2	56
122	Experimental study on the performance and emission measures of direct injection diesel engine with Kapok methyl ester and its blends. <i>Renewable Energy</i> , 2015, 74, 903-909.	8.9	55
123	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.	4.0	55
124	Treatment of fluoride-contaminated water. A review. <i>Environmental Chemistry Letters</i> , 2019, 17, 1707-1726.	16.2	55
125	Perspective of <i>Spirulina</i> culture with wastewater into a sustainable circular bioeconomy. <i>Environmental Pollution</i> , 2021, 284, 117492.	7.5	55
126	Analysis on the removal of emerging contaminant from aqueous solution using biochar derived from soap nut seeds. <i>Environmental Pollution</i> , 2021, 287, 117632.	7.5	55

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127	A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal. <i>Environmental Research</i> , 2021, 196, 110996.	7.5	54
128	Annealing temperature effect on cobalt ferrite nanoparticles for photocatalytic degradation. <i>Chemosphere</i> , 2021, 281, 130903.	8.2	54
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> , 2017, 11, 19-27.	3.3	53
130	Sustainable wastewater treatments in textile sector. , 2017, , 323-346.		53
131	Enhanced Zn(II) ion adsorption on surface modified mixed biomass " Borassus flabellifer and Aspergillus tamarii: Equilibrium, kinetics and thermodynamics study. <i>Industrial Crops and Products</i> , 2020, 153, 112613.	5.2	53
132	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. <i>Chemosphere</i> , 2021, 271, 129519.	8.2	53
133	A review on nano-catalysts and biochar-based catalysts for biofuel production. <i>Fuel</i> , 2021, 306, 121632.	6.4	53
134	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.	8.0	53
135	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review. , 0, 68, 245-266.		52
136	Influence of tin (Sn) doping on Co ₃ O ₄ for enhanced photocatalytic dye degradation. <i>Chemosphere</i> , 2021, 277, 130325.	8.2	51
137	Kinetic and thermodynamic analysis for the redemption of effluents containing Solochrome Black T onto powdered activated carbon: A validation of new solid-liquid phase equilibrium model. <i>Journal of Molecular Liquids</i> , 2018, 259, 88-101.	4.9	50
138	Rare earth metal (Sm) doped zinc ferrite (ZnFe ₂ O ₄) for improved photocatalytic elimination of toxic dye from aquatic system. <i>Environmental Research</i> , 2021, 197, 111047.	7.5	49
139	Analysis and prediction of water quality using deep learning and auto deep learning techniques. <i>Science of the Total Environment</i> , 2022, 821, 153311.	8.0	48
140	Surface modified polymer-magnetic-algae nanocomposite for the removal of chromium- equilibrium and mechanism studies. <i>Environmental Research</i> , 2021, 201, 111626.	7.5	47
141	Electrodeionization theory, mechanism and environmental applications. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1209-1227.	16.2	46
142	Facile single-step synthesis of MXene@CNTs hybrid nanocomposite by CVD method to remove hazardous pollutants. <i>Chemosphere</i> , 2022, 286, 131733.	8.2	46
143	Hybrid metal organic frameworks as an Exotic material for the photocatalytic degradation of pollutants present in wastewater: A review. <i>Chemosphere</i> , 2022, 288, 132448.	8.2	46
144	Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (Pseudomonas) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	4.9	45

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145	Packed bed column optimization and modeling studies for removal of chromium ions using chemically modified <i>Lantana camara</i> adsorbent. <i>Journal of Water Process Engineering</i> , 2020, 33, 101069.	5.6	45
146	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> , 2021, 9, 105204.	6.7	45
147	Cannabis: Chemistry, extraction and therapeutic applications. <i>Chemosphere</i> , 2022, 289, 133012.	8.2	45
148	Advanced techniques to remove phosphates and nitrates from waters: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3165-3180.	16.2	44
149	Electrochemical sensing system for the analysis of emerging contaminants in aquatic environment: A review. <i>Chemosphere</i> , 2022, 294, 133779.	8.2	44
150	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2787-2805.	2.7	43
151	Optical, electrical, mechanical, and thermal properties and non-isothermal decomposition behavior of poly(vinyl alcohol)-ZnO nanocomposites. <i>Iranian Polymer Journal (English Edition)</i> , 2020, 29, 411-422.	2.4	43
152	Remediation of emerging metal pollutants using environment friendly biochar- Review on applications and mechanism. <i>Chemosphere</i> , 2022, 290, 133384.	8.2	43
153	Effective removal of malachite green dye from aqueous solution in hybrid system utilizing agricultural waste as particle electrodes. <i>Chemosphere</i> , 2021, 273, 129634.	8.2	42
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