

# Amit Bhatnagar

## List of Publications by Year in descending order

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Version: 2024-02-01

238  
papers

23,494  
citations

8159

76  
h-index

8835

145  
g-index

239  
all docs

239  
docs citations

239  
times ranked

22168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of nanomaterials in water treatment applications: A review. Chemical Engineering Journal, 2016, 306, 1116-1137.	6.6	1,004
2	Utilization of agro-industrial and municipal waste materials as potential adsorbents for water treatment—A review. Chemical Engineering Journal, 2010, 157, 277-296.	6.6	958
3	Fluoride removal from water by adsorption—A review. Chemical Engineering Journal, 2011, 171, 811-840.	6.6	901
4	An overview of the modification methods of activated carbon for its water treatment applications. Chemical Engineering Journal, 2013, 219, 499-511.	6.6	839
5	A review on modification methods to cellulose-based adsorbents to improve adsorption capacity. Water Research, 2016, 91, 156-173.	5.3	795
6	A review of emerging adsorbents for nitrate removal from water. Chemical Engineering Journal, 2011, 168, 493-504.	6.6	627
7	Applications of chitin- and chitosan-derivatives for the detoxification of water and wastewater — A short review. Advances in Colloid and Interface Science, 2009, 152, 26-38.	7.0	591
8	Agricultural waste peels as versatile biomass for water purification — A review. Chemical Engineering Journal, 2015, 270, 244-271.	6.6	582
9	An overview of the methods used in the characterisation of natural organic matter (NOM) in relation to drinking water treatment. Chemosphere, 2011, 83, 1431-1442.	4.2	549
10	Utilization of industrial waste products as adsorbents for the removal of dyes. Journal of Hazardous Materials, 2003, 101, 31-42.	6.5	434
11	A comparative adsorption study with different industrial wastes as adsorbents for the removal of cationic dyes from water. Journal of Colloid and Interface Science, 2005, 281, 49-55.	5.0	410
12	Removal of chromium(VI) from aqueous solution using treated waste newspaper as a low-cost adsorbent: Kinetic modeling and isotherm studies. Journal of Molecular Liquids, 2016, 215, 671-679.	2.3	378
13	A Comparative Study of Adsorbents Prepared from Industrial Wastes for Removal of Dyes. Separation Science and Technology, 2003, 38, 463-481.	1.3	374
14	Adsorptive removal of bisphenol A (BPA) from aqueous solution: A review. Chemosphere, 2017, 168, 885-902.	4.2	368
15	Recent developments of electro-oxidation in water treatment — A review. Journal of Electroanalytical Chemistry, 2015, 754, 46-56.	1.9	324
16	Adsorption of rare earth metals: A review of recent literature. Journal of Molecular Liquids, 2016, 221, 954-962.	2.3	307
17	Adsorptive removal of cobalt from aqueous solution by utilizing lemon peel as biosorbent. Biochemical Engineering Journal, 2010, 48, 181-186.	1.8	295
18	Desorption of Methylene blue dye from brown macroalga: Effects of operating parameters, isotherm study and kinetic modeling. Journal of Cleaner Production, 2017, 152, 443-453.	4.6	294

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19	Photocatalytic degradation of gemifloxacin antibiotic using Zn-Co-LDH@biochar nanocomposite. <i>Journal of Hazardous Materials</i> , 2020, 382, 121070.	6.5	273
20	Biochar-based engineered composites for sorptive decontamination of water: A review. <i>Chemical Engineering Journal</i> , 2019, 372, 536-550.	6.6	264
21	Heavy metals adsorption by novel EDTA-modified chitosan-silica hybrid materials. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 261-267.	5.0	261
22	Defluoridation from aqueous solutions by granular ferric hydroxide (GFH). <i>Water Research</i> , 2009, 43, 490-498.	5.3	259
23	Removal of natural organic matter (NOM) and its constituents from water by adsorption – A review. <i>Chemosphere</i> , 2017, 166, 497-510.	4.2	246
24	Nitrate removal from water by nano-alumina: Characterization and sorption studies. <i>Chemical Engineering Journal</i> , 2010, 163, 317-323.	6.6	228
25	A review of the use of red mud as adsorbent for the removal of toxic pollutants from water and wastewater. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 231-249.	1.2	224
26	Defluoridation from aqueous solutions by nano-alumina: Characterization and sorption studies. <i>Journal of Hazardous Materials</i> , 2011, 186, 1042-1049.	6.5	217
27	Biochar-based adsorbents for carbon dioxide capture: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109582.	8.2	212
28	Calcium hydroxyapatite microfibrillated cellulose composite as a potential adsorbent for the removal of Cr(VI) from aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 283, 445-452.	6.6	207
29	Aminopolycarboxylic acid functionalized adsorbents for heavy metals removal from water. <i>Water Research</i> , 2013, 47, 4812-4832.	5.3	195
30	Biologically-mediated carbon capture and utilization by microalgae towards sustainable CO <sub>2</sub> biofixation and biomass valorization – A review. <i>Chemical Engineering Journal</i> , 2022, 427, 130884.	6.6	192
31	Facile hydrothermal synthesis of novel Fe-Cu layered double hydroxide/biochar nanocomposite with enhanced sonocatalytic activity for degradation of cefazolin sodium. <i>Journal of Hazardous Materials</i> , 2020, 381, 120742.	6.5	191
32	Removal of nitrate from aqueous solution by modified sugarcane bagasse biochar. <i>Ecological Engineering</i> , 2016, 95, 101-111.	1.6	184
33	Efficient removal of coomassie brilliant blue R-250 dye using starch/poly(alginic acid-cl-acrylamide) nanohydrogel. <i>Chemical Engineering Research and Design</i> , 2017, 109, 301-310.	2.7	183
34	Adsorption of acid orange II dye by raw and chemically modified brown macroalga <i>Stoechospermum marginatum</i> . <i>Chemical Engineering Journal</i> , 2012, 192, 67-76.	6.6	177
35	Biomass-derived Carbon Quantum Dots for Visible-Light-Induced Photocatalysis and Label-Free Detection of Fe(III) and Ascorbic acid. <i>Scientific Reports</i> , 2019, 9, 15084.	1.6	161
36	Coconut-based biosorbents for water treatment – A review of the recent literature. <i>Advances in Colloid and Interface Science</i> , 2010, 160, 1-15.	7.0	159

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37	SARS-CoV-2 coronavirus in water and wastewater: A critical review about presence and concern. <i>Environmental Research</i> , 2021, 193, 110265.	3.7	150
38	A review of recent advancements in utilization of biomass and industrial wastes into engineered biochar. <i>Journal of Hazardous Materials</i> , 2020, 400, 123242.	6.5	149
39	Sequential cultivation of microalgae in raw and recycled dairy wastewater: Microalgal growth, wastewater treatment and biochemical composition. <i>Bioresource Technology</i> , 2019, 273, 556-564.	4.8	148
40	Electrochemical methods for the removal of anionic contaminants from water – A review. <i>Separation and Purification Technology</i> , 2014, 132, 252-271.	3.9	145
41	Biosorption optimization of nickel removal from water using <i>Punica granatum</i> peel waste. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 544-548.	2.5	140
42	Versatile applications of freshwater and marine water microalgae in dairy wastewater treatment, lipid extraction and tetracycline biosorption. <i>Bioresource Technology</i> , 2018, 268, 523-530.	4.8	140
43	Optimization of coagulation–flocculation and flotation parameters for the treatment of a petroleum refinery effluent from a Portuguese plant. <i>Chemical Engineering Journal</i> , 2012, 183, 117-123.	6.6	134
44	Clay–polymer nanocomposites: Progress and challenges for use in sustainable water treatment. <i>Journal of Hazardous Materials</i> , 2020, 383, 121125.	6.5	132
45	Chitin Adsorbents for Toxic Metals: A Review. <i>International Journal of Molecular Sciences</i> , 2017, 18, 114.	1.8	129
46	Tuning tetracycline removal from aqueous solution onto activated 2:1 layered clay mineral: Characterization, sorption and mechanistic studies. <i>Journal of Hazardous Materials</i> , 2020, 384, 121320.	6.5	126
47	Biochar as an Eco-Friendly and Economical Adsorbent for the Removal of Colorants (Dyes) from Aqueous Environment: A Review. <i>Water (Switzerland)</i> , 2020, 12, 3561.	1.2	124
48	Removal of Nitrate from Water by Adsorption onto Zinc Chloride Treated Activated Carbon. <i>Separation Science and Technology</i> , 2008, 43, 886-907.	1.3	122
49	Box–Behnken design optimization of Acid Black 1 dye biosorption by different brown macroalgae. <i>Chemical Engineering Journal</i> , 2012, 179, 158-168.	6.6	121
50	A comparative study of magnetic chitosan (Chi@Fe <sub>3</sub> O <sub>4</sub> ) and graphene oxide modified magnetic chitosan (Chi@Fe <sub>3</sub> O <sub>4</sub> GO) nanocomposites for efficient removal of Cr(VI) from water. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 948-959.	3.6	120
51	Adsorptive removal of endocrine disrupting bisphenol A from aqueous solution using chitosan. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2647-2655.	3.3	116
52	A review on waste-derived adsorbents from sugar industry for pollutant removal in water and wastewater. <i>Journal of Molecular Liquids</i> , 2017, 240, 179-188.	2.3	116
53	Efficient removal of toxic phosphate anions from aqueous environment using pectin based quaternary amino anion exchanger. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 1-10.	3.6	112
54	Bromate removal from water by granular ferric hydroxide (GFH). <i>Journal of Hazardous Materials</i> , 2009, 170, 134-140.	6.5	111

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55	Hexavalent chromium removal from water by microalgal-based materials: Adsorption, desorption and recovery studies. <i>Bioresource Technology</i> , 2019, 293, 122064.	4.8	111
56	Synergistic effects of activated carbon and nano-zerovalent copper on the performance of hydroxyapatite-alginate beads for the removal of As <sup>3+</sup> from aqueous solution. <i>Journal of Cleaner Production</i> , 2019, 235, 875-886.	4.6	108
57	Modified biochar as a green adsorbent for removal of hexavalent chromium from various environmental matrices: Mechanisms, methods, and prospects. <i>Chemical Engineering Journal</i> , 2022, 439, 135716.	6.6	108
58	Adsorptive removal of arsenic(V) from aqueous phase by feldspars: Kinetics, mechanism, and thermodynamic aspects of adsorption. <i>Journal of Molecular Liquids</i> , 2016, 214, 149-156.	2.3	107
59	Photocatalytic degradation of toxic aquatic pollutants by novel magnetic 3D-TiO <sub>2</sub> @HPGA nanocomposite. <i>Scientific Reports</i> , 2018, 8, 15531.	1.6	104
60	Biosorption of copper(II) ions by flax meal: Empirical modeling and process optimization by response surface methodology (RSM) and artificial neural network (ANN) simulation. <i>Ecological Engineering</i> , 2015, 83, 364-379.	1.6	103
61	Interaction of anionic pollutants with Al-based adsorbents in aqueous media – A review. <i>Chemical Engineering Journal</i> , 2014, 241, 443-456.	6.6	99
62	Natural Organic Matter Removal from Drinking Water by Membrane Technology. <i>Separation and Purification Reviews</i> , 2014, 43, 1-61.	2.8	97
63	Removal of zinc and lead from aqueous solution by nanostructured cedar leaf ash as biosorbent. <i>Journal of Molecular Liquids</i> , 2015, 211, 448-456.	2.3	97
64	Magnetic SiO <sub>2</sub> @CoFe <sub>2</sub> O <sub>4</sub> nanoparticles decorated on graphene oxide as efficient adsorbents for the removal of anionic pollutants from water. <i>Chemical Engineering Journal</i> , 2017, 322, 472-487.	6.6	96
65	Investigation on the feasibility of <i>Chlorella vulgaris</i> cultivation in a mixture of pulp and aquaculture effluents: Treatment of wastewater and lipid extraction. <i>Bioresource Technology</i> , 2018, 255, 104-110.	4.8	95
66	Chitosan/Ag-hydroxyapatite nanocomposite beads as a potential adsorbent for the efficient removal of toxic aquatic pollutants. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 1752-1759.	3.6	94
67	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
68	Removal of bromophenols from water using industrial wastes as low cost adsorbents. <i>Journal of Hazardous Materials</i> , 2007, 139, 93-102.	6.5	91
69	Overview of technologies for removal of methyl tert-butyl ether (MTBE) from water. <i>Science of the Total Environment</i> , 2014, 476-477, 415-433.	3.9	91
70	Synthesis and characterization of magnetic biochar adsorbents for the removal of Cr(VI) and Acid orange 7 dye from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2020, 27, 32874-32887.	2.7	90
71	Removal of nitrate from aqueous solution using modified granular activated carbon. <i>Journal of Molecular Liquids</i> , 2017, 233, 139-148.	2.3	88
72	A review on carbon-based materials for heterogeneous sonocatalysis: Fundamentals, properties and applications. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104681.	3.8	86

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73	A comparative study of methylene blue biosorption using different modified brown, red and green macroalgae – Effect of pretreatment. <i>Chemical Engineering Journal</i> , 2017, 307, 435-446.	6.6	85
74	Endosulfan removal through bioremediation, photocatalytic degradation, adsorption and membrane separation processes: A review. <i>Chemical Engineering Journal</i> , 2019, 360, 912-928.	6.6	85
75	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 391-400.	3.6	84
76	Interaction of inorganic anions with iron-mineral adsorbents in aqueous media – A review. <i>Advances in Colloid and Interface Science</i> , 2014, 203, 11-21.	7.0	81
77	Vanadium removal from water by waste metal sludge and cement immobilization. <i>Chemical Engineering Journal</i> , 2008, 144, 197-204.	6.6	80
78	Valorization of solid waste products from olive oil industry as potential adsorbents for water pollution control – a review. <i>Environmental Science and Pollution Research</i> , 2014, 21, 268-298.	2.7	80
79	Green synthesis of nano-zero-valent iron from Nettle and Thyme leaf extracts and their application for the removal of cephalexin antibiotic from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1071-1080.	1.0	80
80	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021, 329, 124870.	4.8	79
81	Mechanistic insight into efficient removal of tetracycline from water by Fe/graphene. <i>Chemical Engineering Journal</i> , 2019, 373, 821-830.	6.6	78
82	Central composite design optimization of Acid Blue 25 dye biosorption using shrimp shell biomass. <i>Journal of Molecular Liquids</i> , 2015, 207, 266-273.	2.3	76
83	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. <i>Journal of Hazardous Materials</i> , 2020, 383, 121243.	6.5	75
84	Characterization of activated bentonite clay mineral and the mechanisms underlying its sorption for ciprofloxacin from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2020, 27, 32980-32997.	2.7	74
85	Engineered tea-waste biochar for the removal of caffeine, a model compound in pharmaceuticals and personal care products (PPCPs), from aqueous media. <i>Environmental Technology and Innovation</i> , 2020, 19, 100847.	3.0	74
86	Paradigms on landfill mining: From dump site scavenging to ecosystem services revitalization. <i>Resources, Conservation and Recycling</i> , 2017, 123, 73-84.	5.3	73
87	Microorganisms-carbonaceous materials immobilized complexes: Synthesis, adaptability and environmental applications. <i>Journal of Hazardous Materials</i> , 2021, 416, 125915.	6.5	71
88	Water defluoridation using Al <sub>2</sub> O <sub>3</sub> nanoparticles synthesized by flame spray pyrolysis (FSP) method. <i>Chemical Engineering Journal</i> , 2016, 288, 198-206.	6.6	70
89	Effect of pH and sulfate concentration on hydrogen production using anaerobic mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9702-9710.	3.8	66
90	Treatment of furazolidone contaminated water using banana pseudostem biochar engineered with facile synthesized magnetic nanocomposites. <i>Bioresource Technology</i> , 2020, 297, 122472.	4.8	64

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91	Perchlorate removal from aqueous solutions by granular ferric hydroxide (GFH). <i>Chemical Engineering Journal</i> , 2010, 159, 84-90.	6.6	63
92	Removal of Cd <sup>2+</sup> , Ni <sup>2+</sup> and PO <sub>4</sub> <sup>3-</sup> from aqueous solution by hydroxyapatite-bentonite clay-nanocellulose composite. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 903-912.	3.6	63
93	Multifaceted applications of isolated microalgae <i>Chlamydomonas</i> sp. TRC-1 in wastewater remediation, lipid production and bioelectricity generation. <i>Bioresource Technology</i> , 2020, 304, 122993.	4.8	63
94	Synthesis of clay-cellulose biocomposite for the removal of toxic metal ions from aqueous medium. <i>Journal of Hazardous Materials</i> , 2020, 381, 120871.	6.5	62
95	Synthesis of S-ligand tethered cellulose nanofibers for efficient removal of Pb(II) and Cd(II) ions from synthetic and industrial wastewater. <i>Environmental Pollution</i> , 2018, 242, 1988-1997.	3.7	61
96	Artificial intelligence (AI) applications in adsorption of heavy metals using modified biochar. <i>Science of the Total Environment</i> , 2021, 801, 149623.	3.9	61
97	Methylphenols Removal from Water by Low-Cost Adsorbents. <i>Journal of Colloid and Interface Science</i> , 2002, 251, 39-45.	5.0	59
98	Removal of Anionic Dyes from Water using Citrus limonum (Lemon) Peel: Equilibrium Studies and Kinetic Modeling. <i>Separation Science and Technology</i> , 2009, 44, 316-334.	1.3	59
99	Adsorption studies of Dichloromethane on some commercially available GACs: Effect of kinetics, thermodynamics and competitive ions. <i>Journal of Hazardous Materials</i> , 2010, 178, 963-972.	6.5	59
100	Adsorption of As(V) and Ni(II) by Fe-Biochar composite fabricated by co-pyrolysis of orange peel and red mud. <i>Environmental Research</i> , 2020, 188, 109809.	3.7	59
101	Lepidocrocite and its heat-treated forms as effective arsenic adsorbents in aqueous medium. <i>Chemical Engineering Journal</i> , 2012, 180, 159-169.	6.6	58
102	Efficient removal of diclofenac and cephalexin from aqueous solution using <i>Anthriscus sylvestris</i> -derived activated biochar. <i>Science of the Total Environment</i> , 2020, 745, 140789.	3.9	58
103	Shrimp shell as an efficient bioadsorbent for Acid Blue 25 dye removal from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2926-2934.	2.7	57
104	Carbon nano-onions from waste oil for application in energy storage devices. <i>New Journal of Chemistry</i> , 2020, 44, 7369-7375.	1.4	57
105	Thermal regeneration process of bone char used in the fluoride removal from aqueous solution. <i>Journal of Cleaner Production</i> , 2017, 142, 3558-3570.	4.6	56
106	An analysis of the versatility and effectiveness of composts for sequestering heavy metal ions, dyes and xenobiotics from soils and aqueous milieu. <i>Ecotoxicology and Environmental Safety</i> , 2020, 197, 110587.	2.9	56
107	Synthesis, characterization and exploitation of nano-TiO <sub>2</sub> /feldspar-embedded chitosan beads towards UV-assisted adsorptive abatement of aqueous arsenic (As). <i>Chemical Engineering Journal</i> , 2017, 316, 370-382.	6.6	55
108	A critical review on limitations and enhancement strategies associated with biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16565-16590.	3.8	55



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109	Emergent green technologies for cost-effective valorization of microalgal biomass to renewable fuel products under a biorefinery scheme. <i>Chemical Engineering Journal</i> , 2021, 415, 128932.	6.6	55
110	Removal of cationic and anionic heavy metals from water by 1D and 2D-carbon structures decorated with magnetic nanoparticles. <i>Scientific Reports</i> , 2017, 7, 14107.	1.6	53
111	Waste <i>Moringa oleifera</i> seed pods as green sorbent for efficient removal of toxic aquatic pollutants. <i>Journal of Environmental Management</i> , 2018, 227, 95-106.	3.8	53
112	Adsorptive removal of 2,4-dichlorophenol from water utilizing <i>Punica granatum</i> peel waste and stabilization with cement. <i>Journal of Hazardous Materials</i> , 2009, 168, 1111-1117.	6.5	52
113	A review for chromium removal by carbon nanotubes. <i>Chemistry and Ecology</i> , 2017, 33, 572-588.	0.6	52
114	Modified biochar from <i>Moringa</i> seed powder for the removal of diclofenac from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2020, 27, 7318-7327.	2.7	52
115	Chitosan-Fe-Al-Mn metal oxyhydroxides composite as highly efficient fluoride scavenger for aqueous medium. <i>Carbohydrate Polymers</i> , 2019, 216, 140-148.	5.1	51
116	Optimization of nickel biosorption by chemically modified brown macroalgae ( <i>Pelvetia canaliculata</i> ). <i>Chemical Engineering Journal</i> , 2012, 193-194, 256-266.	6.6	49
117	Optimization of fluoride removal from aqueous solution by Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Molecular Liquids</i> , 2017, 238, 254-262.	2.3	49
118	Pretreatment assisted synthesis and characterization of cellulose nanocrystals and cellulose nanofibers from absorbent cotton. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 248-257.	3.6	49
119	Sustainable nitrogen-doped functionalized graphene nanosheets for visible-light-induced photocatalytic water splitting. <i>Chemical Communications</i> , 2020, 56, 6953-6956.	2.2	49
120	Biochar-microorganism interactions for organic pollutant remediation: Challenges and perspectives. <i>Environmental Pollution</i> , 2022, 308, 119609.	3.7	49
121	Future feed resources in sustainable salmonid production: A review. <i>Reviews in Aquaculture</i> , 2022, 14, 1790-1812.	4.6	48
122	Multidisciplinary Approaches to Handling Wastes in Sugar Industries. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	47
123	Implications of layered double hydroxides assembled biochar composite in adsorptive removal of contaminants: Current status and future perspectives. <i>Science of the Total Environment</i> , 2020, 737, 139718.	3.9	47
124	Removal of congo red dye from water using carbon slurry waste. <i>Environmental Chemistry Letters</i> , 2005, 2, 199-202.	8.3	46
125	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. <i>Environmental Research</i> , 2021, 202, 111693.	3.7	46
126	Speciation of metals in contaminated sediments from Oskarshamn Harbor, Oskarshamn, Sweden. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2455-2464.	2.7	45



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127	Cobalt and nickel ferrites based graphene nanocomposites for electrochemical hydrogen evolution. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 448, 165-171.	1.0	45
128	Recent progress and challenges facing ballast water treatment – A review. <i>Chemosphere</i> , 2022, 291, 132776.	4.2	45
129	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. <i>Environmental Research</i> , 2021, 197, 111091.	3.7	44
130	Biosorption of hexavalent chromium from aqueous solution onto pomegranate seeds: kinetic modeling studies. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 331-340.	1.8	43
131	A non-enzymatic sensor for hydrogen peroxide based on the use of $\text{Fe}_2\text{O}_3$ nanoparticles deposited on the surface of NiO nanosheets. <i>Mikrochimica Acta</i> , 2017, 184, 3223-3229.	2.5	43
132	Probabilistic risk assessment of exposure to fluoride in most consumed brands of tea in the Middle East. <i>Food and Chemical Toxicology</i> , 2018, 115, 267-272.	1.8	43
133	Synthesis of N-Doped Magnetic $\text{WO}_3$ @Mesoporous Carbon Using a Diatom Template and Plasma Modification: Visible-Light-Driven Photocatalytic Activities. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 13072-13086.	4.0	43
134	One-time cultivation of <i>Chlorella pyrenoidosa</i> in aqueous dye solution supplemented with biochar for microalgal growth, dye decolorization and lipid production. <i>Chemical Engineering Journal</i> , 2019, 364, 552-561.	6.6	43
135	Facile functionalization of cellulose from discarded cigarette butts for the removal of diclofenac from water. <i>Carbohydrate Polymers</i> , 2019, 219, 46-55.	5.1	42
136	A review on the diverse interactions between microalgae and nanomaterials: Growth variation, photosynthetic performance and toxicity. <i>Bioresource Technology</i> , 2022, 351, 127048.	4.8	42
137	Assessment of the biosorption characteristics of lychee ( <i>Litchi chinensis</i> ) peel waste for the removal of Acid Blue 25 dye from water. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 97-105.	1.2	40
138	Significance of environmental dredging on metal mobility from contaminated sediments in the Oskarshamn Harbor, Sweden. <i>Chemosphere</i> , 2015, 119, 445-451.	4.2	40
139	Hunting for valuables from landfills and assessing their market opportunities A case study with Kudjape landfill in Estonia. <i>Waste Management and Research</i> , 2017, 35, 627-635.	2.2	39
140	Precipitation of dissolved sulphide in pulp and paper mill wastewater by electrocoagulation. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1393-1400.	1.2	38
141	FeOOH-modified clay sorbents for arsenic removal from aqueous solutions. <i>Environmental Technology and Innovation</i> , 2019, 13, 364-372.	3.0	37
142	Utilization of industrial waste for cadmium removal from water and immobilization in cement. <i>Chemical Engineering Journal</i> , 2009, 150, 145-151.	6.6	35
143	Insights into trivalent chromium biosorption onto protonated brown algae <i>Pelvetia canaliculata</i> : Distribution of chromium ionic species on the binding sites. <i>Chemical Engineering Journal</i> , 2012, 200-202, 140-148.	6.6	35
144	Effect of nanomaterials on remediation of polycyclic aromatic hydrocarbons-contaminated soils: A review. <i>Journal of Environmental Management</i> , 2021, 284, 112023.	3.8	35

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145	Biodiesel production from black soldier fly larvae derived from food waste by non-catalytic transesterification. <i>Energy</i> , 2022, 238, 121700.	4.5	35
146	Valorization of Marine Waste: Use of Industrial By-Products and Beach Wrack Towards the Production of High Added-Value Products. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	35
147	Performance evaluation of isolated electrogenic microalga coupled with graphene oxide for decolorization of textile dye wastewater and subsequent lipid production. <i>Chemical Engineering Journal</i> , 2019, 375, 121950.	6.6	34
148	Synthesis of zerovalent iron from water treatment residue as a conjugate with kaolin and its application for vanadium removal. <i>Journal of Hazardous Materials</i> , 2019, 374, 372-381.	6.5	34
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