Yeoung-Sang Yun

List of Publications by Year
in descending order

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235 papers	17,166 citations	17405 63 h-index	16605 123 g-index
238 all docs	238 docs citations	238 times ranked	15463 citing authors

#	Article	IF	Citations
1	Bacterial biosorbents and biosorption. Biotechnology Advances, 2008, 26, 266-291.	6.0	1,466
2	Environmental fate and toxicity of ionic liquids: A review. Water Research, 2010, 44, 352-372.	5.3	1,333
3	Cinnamon zeylanicum bark extract and powder mediated green synthesis of nano-crystalline silver particles and its bactericidal activity. Colloids and Surfaces B: Biointerfaces, 2009, 73, 332-338.	2.5	796
4	Biogenic Synthesis of Metallic Nanoparticles by Plant Extracts. ACS Sustainable Chemistry and Engineering, 2013, 1, 591-602.	3.2	649
5	Spinel ferrite magnetic adsorbents: Alternative future materials for water purification?. Coordination Chemistry Reviews, 2016, 315, 90-111.	9.5	575
6	The past, present, and future trends of biosorption. Biotechnology and Bioprocess Engineering, 2010, 15, 86-102.	1.4	554
7	Mechanism of hexavalent chromium removal by dead fungal biomass of Aspergillus niger. Water Research, 2005, 39, 533-540.	5.3	361
8	Immobilization of silver nanoparticles synthesized using Curcuma longa tuber powder and extract on cotton cloth for bactericidal activity. Bioresource Technology, 2010, 101, 7958-7965.	4.8	343
9	Studies on hexavalent chromium biosorption by chemically-treated biomass of Ecklonia sp.. Chemosphere, 2005, 60, 1356-1364.	4.2	342
10	Biosorption of Trivalent Chromium on the Brown Seaweed Biomass. Environmental Science & Technology, 2001, 35, 4353-4358.	4.6	332
11	Reduction of Hexavalent Chromium with the Brown SeaweedEckloniaBiomass. Environmental Science & Technology, 2004, 38, 4860-4864.	4.6	256
12	Carbon Dioxide Fixation by Algal Cultivation Using Wastewater Nutrients. Journal of Chemical Technology and Biotechnology, 1997, 69, 451-455.	1.6	242
13	XAS and XPS studies on chromium-binding groups of biomaterial during Cr(VI) biosorption. Journal of Colloid and Interface Science, 2008, 317, 54-61.	5.0	228
14	Reliable evidences that the removal mechanism of hexavalent chromium by natural biomaterials is adsorption-coupled reduction. Chemosphere, 2007, 70, 298-305.	4.2	212
15	Phyto-crystallization of palladium through reduction process using Cinnamom zeylanicum bark extract. Journal of Hazardous Materials, 2009, 171, 400-404.	6.5	200
16	Biosorbents for recovery of precious metals. Bioresource Technology, 2014, 160, 203-212.	4.8	197
17	Development of a new Cr(VI)-biosorbent from agricultural biowaste. Bioresource Technology, 2008, 99, 8810-8818.	4.8	185
18	Effective adsorption of Pd(<scp>ii</scp>), Pt(<scp>iv</scp>) and Au(<scp>iii</scp>) by Zr(<scp>iv</scp>)-based metalâ€“organic frameworks from strongly acidic solutions. Journal of Materials Chemistry A, 2017, 5, 13557-13564.	5.2	179

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19	Use of dead fungal biomass for the detoxification of hexavalent chromium: screening and kinetics. Process Biochemistry, 2005, 40, 2559-2565.	1.8	176
20	Highly Effective Removal of Nonsteroidal Anti-inflammatory Pharmaceuticals from Water by Zr(IV)-Based Metalâ€“Organic Framework: Adsorption Performance and Mechanisms. ACS Applied Materials & Interfaces, 2018, 10, 28076-28085.	4.0	171
21	Biosorption of C.I. Reactive Black 5 from aqueous solution using acid-treated biomass of brown seaweed Laminaria sp.. Dyes and Pigments, 2008, 76, 726-732.	2.0	170
22	The ecotoxicity of ionic liquids and traditional organic solvents on microalga Selenastrum capricornutum. Ecotoxicology and Environmental Safety, 2008, 71, 166-171.	2.9	170
23	Influence of anions on the toxic effects of ionic liquids to a phytoplankton Selenastrum capricornutum. Green Chemistry, 2008, 10, 67-72.	4.6	162
24	Utilization of fermentation waste (Corynebacterium glutamicum) for biosorption of Reactive Black 5 from aqueous solution. Journal of Hazardous Materials, 2007, 141, 45-52.	6.5	153
25	Toxicity of imidazolium salt with anion bromide to a phytoplankton Selenastrum capricornutum: Effect of alkyl-chain length. Chemosphere, 2007, 69, 1003-1007.	4.2	148
26	Review of the toxic effects of ionic liquids. Science of the Total Environment, 2021, 786, 147309.	3.9	135
27	Corynebacterium glutamicum-mediated crystallization of silver ions through sorption and reduction processes. Chemical Engineering Journal, 2010, 162, 989-996.	6.6	129
28	In vitro release of metformin from iron (III) cross-linked alginateâ€“carboxymethyl cellulose hydrogel beads. International Journal of Biological Macromolecules, 2015, 77, 114-119.	3.6	124
29	Selective recovery of Pd(II) from extremely acidic solution using ion-imprinted chitosan fiber: Adsorption performance and mechanisms. Journal of Hazardous Materials, 2015, 299, 10-17.	6.5	121
30	Selective recovery of Au(III), Pt(IV), and Pd(II) from aqueous solutions by liquidâ€“liquid extraction using ionic liquid Aliquat-336. Journal of Molecular Liquids, 2016, 216, 18-24.	2.3	121
31	Biosorption of methylene blue from aqueous solution using free and polysulfone-immobilized Corynebacterium glutamicum: Batch and column studies. Bioresource Technology, 2008, 99, 2864-2871.	4.8	107
32	Biosorption of cadmium by various types of dried sludge: An equilibrium study and investigation of mechanisms. Journal of Hazardous Materials, 2006, 138, 378-383.	6.5	105
33	Recovery of Pd(II) from hydrochloric solution using polyallylamine hydrochloride-modified Escherichia coli biomass. Journal of Hazardous Materials, 2010, 181, 794-800.	6.5	104
34	Utilization of PEI-modified Corynebacterium glutamicum biomass for the recovery of Pd(II) in hydrochloric solution. Bioresource Technology, 2011, 102, 3888-3893.	4.8	104
35	Kinetic modeling of the light-dependent photosynthetic activity of the green microalgaChlorella vulgaris. Biotechnology and Bioengineering, 2003, 83, 303-311.	1.7	97
36	Kinetics of the reduction of hexavalent chromium with the brown seaweed Ecklonia biomass. Chemosphere, 2007, 66, 939-946.	4.2	97

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37	Structure-controlled recovery of palladium(II) from acidic aqueous solution using metal-organic frameworks of MOF-802, UiO-66 and MOF-808. Chemical Engineering Journal, 2019, 362, 280-286.	6.6	93
38	Biosorptive Decolorization of Reactive Orange 16 Using the Waste Biomass of Corynebacterium glutamicum. Industrial & Engineering Chemistry Research, 2004, 43, 7865-7869.	1.8	91
39	Biosorption Process for Treatment of Electroplating Wastewater Containing Cr(VI):Â Laboratory-Scale Feasibility Test. Industrial & Engineering Chemistry Research, 2006, 45, 5059-5065.	1.8	91
40	Aliquat-336-impregnated alginate capsule as a green sorbent for selective recovery of gold from metal mixtures. Chemical Engineering Journal, 2016, 289, 413-422.	6.6	91
41	Mechanisms of the removal of hexavalent chromium by biomaterials or biomaterial-based activated carbons. Journal of Hazardous Materials, 2006, 137, 1254-1257.	6.5	90
42	Platinum recovery from ICP wastewater by a combined method of biosorption and incineration. Bioresource Technology, 2010, 101, 1135-1140.	4.8	88
43	How to study Cr(VI) biosorption: Use of fermentation waste for detoxifying Cr(VI) in aqueous solution. Chemical Engineering Journal, 2008, 136, 173-179.	6.6	87
44	Advanced kinetic model of the Cr(VI) removal by biomaterials at various pHs and temperatures. Bioresource Technology, 2008, 99, 1141-1147.	4.8	86
45	Biosynthesis of Gold Nanoparticles Using Ocimum sanctum Extracts by Solvents with Different Polarity. ACS Sustainable Chemistry and Engineering, 2016, 4, 2651-2659.	3.2	86
46	Counter ions and temperature incorporated tailoring of biogenic gold nanoparticles. Process Biochemistry, 2010, 45, 1450-1458.	1.8	85
47	Removal of heavy metals from aqueous phases using chemically modified waste Lyocell fiber. Journal of Hazardous Materials, 2015, 299, 550-561.	6.5	85
48	Valorisation of post-sorption materials: Opportunities, strategies, and challenges. Advances in Colloid and Interface Science, 2017, 242, 35-58.	7.0	85
49	Combined effects of light intensity and acetate concentration on the growth of unicellular microalga Haematococcus pluvialis. Enzyme and Microbial Technology, 2006, 39, 490-495.	1.6	83
50	Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of Corynebacterium glutamicum as a low-cost biosorbent. Chemical Engineering Journal, 2006, 121, 37-43.	6.6	82
51	Interaction between protonated waste biomass of Corynebacterium glutamicum and anionic dye Reactive Red 4. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 262, 175-180.	2.3	80
52	Glutaraldehyde-crosslinked chitosan beads for sorptive separation of Au(III) and Pd(II): Opening a way to design reduction-coupled selectivity-tunable sorbents for separation of precious metals. Journal of Hazardous Materials, 2013, 248-249, 211-218.	6.5	80
53	Alkyl-chain length effects of imidazolium and pyridinium ionic liquids on photosynthetic response of Pseudokirchneriella subcapitata. Journal of Bioscience and Bioengineering, 2008, 105, 425-428.	1.1	78
54	Attenuation of monochromatic and polychromatic lights in Chlorella vulgaris suspensions. Applied Microbiology and Biotechnology, 2001, 55, 765-770.	1.7	77

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55	Carboxymethyl cellulose fiber as a fast binding and biodegradable adsorbent of heavy metals. Journal of the Taiwan Institute of Chemical Engineers, 2015, 57, 104-110.	2.7	76
56	Selective adsorption of Pd(II) over interfering metal ions (Co(II), Ni(II), Pt(IV)) from acidic aqueous phase by metal-organic frameworks. Chemical Engineering Journal, 2018, 345, 337-344.	6.6	76
57	Identification of Metabolites Involved in the Biodegradation of the Ionic Liquid 1-Butyl-3-methylpyridinium Bromide by Activated Sludge Microorganisms. Environmental Science & Technology, 2009, 43, 516-521.	4.6	75
58	Selective biosorption behavior of Escherichia coli biomass toward Pd(II) in Pt(IV)â€“Pd(II) binary solution. Journal of Hazardous Materials, 2015, 283, 657-662.	6.5	74
59	Chemical Modification and Immobilization ofCorynebacterium glutamicumfor Biosorption of Reactive Black 5 from Aqueous Solution. Industrial & Engineering Chemistry Research, 2007, 46, 608-617.	1.8	71
60	Benignly-fabricated crosslinked polyethylenimine/calcium-alginate fibers as high-performance adsorbents for effective recovery of gold. Journal of Cleaner Production, 2020, 252, 119389.	4.6	70
61	Mechanistic understanding and performance enhancement of biosorption of reactive dyestuffs by the waste biomass generated from amino acid fermentation process. Biochemical Engineering Journal, 2007, 36, 2-7.	1.8	69
62	Measurement of microalgal photosynthetic activity depending on light intensity and quality. Biochemical Engineering Journal, 2005, 27, 127-131.	1.8	67
63	Treatment of complex Remazol dye effluent using sawdust- and coal-based activated carbons. Journal of Hazardous Materials, 2009, 167, 790-796.	6.5	67
64	Performance and mechanism in binding of Reactive Orange 16 to various types of sludge. Biochemical Engineering Journal, 2006, 28, 208-214.	1.8	66
65	Lead biosorption by waste biomass of Corynebacterium glutamicum generated from lysine fermentation process. Biotechnology Letters, 2004, 26, 331-336.	1.1	65
66	Surface modification of Corynebacterium glutamicum for enhanced Reactive Red 4 biosorption. Bioresource Technology, 2009, 100, 1463-1466.	4.8	65
67	Chemical modification of Corynebacterium glutamicum to improve methylene blue biosorption. Chemical Engineering Journal, 2008, 145, 1-6.	6.6	63
68	Competition of Reactive red 4, Reactive orange 16 and Basic blue 3 during biosorption of Reactive blue 4 by polysulfone-immobilized Corynebacterium glutamicum. Journal of Hazardous Materials, 2008, 153, 478-486.	6.5	63
69	Highly efficient and acid-resistant metal-organic frameworks of MIL-101(Cr)-NH2 for Pd(II) and Pt(IV) recovery from acidic solutions: Adsorption experiments, spectroscopic analyses, and theoretical computations. Journal of Hazardous Materials, 2020, 387, 121689.	6.5	62
70	Biosynthesis of Au Nanoparticles Using Cumin Seed Powder Extract. Journal of Nanoscience and Nanotechnology, 2011, 11, 1811-1814.	0.9	61
71	Sequential recovery of gold and copper from bioleached wastewater using ion exchange resins. Environmental Pollution, 2020, 266, 115167.	3.7	61
72	Evaluation of Factors Promoting Astaxanthin Production by a Unicellular Green Alga, Haematococcus pluvialis, with Fractional Factorial Design. Biotechnology Progress, 2002, 18, 1170-1175.	1.3	59

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73	Modeling of Lithium Interference in Cadmium Biosorption. Environmental Science & Technology, 2003, 37, 3601-3608.	4.6	59
74	Ruthenium recovery from acetic acid waste water through sorption with bacterial biosorbent fibers. Bioresource Technology, 2013, 128, 30-35.	4.8	58
75	Chromium Biosorption by Thermally Treated Biomass of the Brown Seaweed,Eckloniasp.. Industrial & Engineering Chemistry Research, 2004, 43, 8226-8232.	1.8	55
76	Removal of hydrolyzed Reactive Black 5 from aqueous solution using a polyethylenimineâ€“polyvinyl chloride composite fiber. Chemical Engineering Journal, 2015, 280, 18-25.	6.6	55
77	Biosorption of cationic basic dye and cadmium by the novel biosorbent Bacillus catenulatus JB-022 strain. Journal of Bioscience and Bioengineering, 2015, 119, 433-439.	1.1	55
78	A phosphorus-enriched biochar fertilizer from bio-fermentation waste: A potential alternative source for phosphorus fertilizers. Journal of Cleaner Production, 2018, 196, 163-171.	4.6	55
79	Biosorption of Reactive black 5 by Corynebacterium glutamicum biomass immobilized in alginate and polysulfone matrices. Chemosphere, 2007, 68, 1838-1845.	4.2	54
80	A new approach to study the decolorization of complex reactive dye bath effluent by biosorption technique. Bioresource Technology, 2008, 99, 5778-5785.	4.8	54
81	Superâ€Stable, Highly Efficient, and Recyclable Fibrous Metalâ€“Organic Framework Membranes for Precious Metal Recovery from Strong Acidic Solutions. Small, 2019, 15, e1805242.	5.2	54
82	Polysulfone-immobilized Corynebacterium glutamicum: A biosorbent for Reactive black 5 from aqueous solution in an up-flow packed column. Chemical Engineering Journal, 2008, 145, 44-49.	6.6	51
83	Recovery of gold as a type of porous fiber by using biosorption followed by incineration. Bioresource Technology, 2012, 104, 208-214.	4.8	50
84	Development of polyethyleneimine-loaded core-shell chitosan hollow beads and their application for platinum recovery in sequential metal scavenging fill-and-draw process. Journal of Hazardous Materials, 2017, 324, 724-731.	6.5	49
85	Sequential process of sorption and incineration for recovery of gold from cyanide solutions: Comparison of ion exchange resin, activated carbon and biosorbent. Chemical Engineering Journal, 2010, 165, 440-446.	6.6	47
86	Evaluation of orange peel-derived activated carbons for treatment of dye-contaminated wastewater tailings. Environmental Science and Pollution Research, 2020, 27, 1053-1068.	2.7	46
87	Biosorptive removal of Reactive Yellow 2 using waste biomass from lysine fermentation process. Dyes and Pigments, 2008, 76, 502-507.	2.0	45
88	Cationic polymer-immobilized polysulfone-based fibers as high performance sorbents for Pt(IV) recovery from acidic solutions. Journal of Hazardous Materials, 2013, 263, 391-397.	6.5	45
89	A sustainable cationic chitosan/E. coli fiber biosorbent for Pt(IV) removal and recovery in batch and column systems. Separation and Purification Technology, 2015, 143, 32-39.	3.9	45
90	Reusable polyethylenimine-coated polysulfone/bacterial biomass composite fiber biosorbent for recovery of Pd(II) from acidic solutions. Chemical Engineering Journal, 2016, 302, 545-551.	6.6	45

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91	Functionalized magnetic biopolymeric graphene oxide with outstanding performance in water purification. NPG Asia Materials, 2019, 11, .	3.8	45
92	Different binding mechanisms in biosorption of reactive dyes according to their reactivity. Water Research, 2008, 42, 4847-4855.	5.3	44
93	The role of biomass in polyethylenimine-coated chitosan/bacterial biomass composite biosorbent fiber for removal of Ru from acetic acid waste solution. Bioresource Technology, 2014, 160, 93-97.	4.8	44
94	Prediction of adsorption properties for ionic and neutral pharmaceuticals and pharmaceutical intermediates on activated charcoal from aqueous solution via LFER model. Chemical Engineering Journal, 2019, 362, 199-206.	6.6	42
95	Ion-imprinted chitosan fiber for recovery of Pd(II): Obtaining high selectivity through selective adsorption and two-step desorption. Environmental Research, 2020, 182, 108995.	3.7	40
96	Surface modified bacterial biosorbent with poly(allylamine hydrochloride): Development using response surface methodology and use for recovery of hexachloroplatinate(IV) from aqueous solution. Water Research, 2010, 44, 5919-5928.	5.3	39
97	Conversion of waste textile cellulose fibers into heavy metal adsorbents. Journal of Industrial and Engineering Chemistry, 2016, 43, 61-68.	2.9	39
98	Ruthenium recovery from acetic acid industrial effluent using chemically stable and high-performance polyethylenimine-coated polysulfone-Escherichia coli biomass composite fibers. Journal of Hazardous Materials, 2016, 313, 29-36.	6.5	39
99	Poly(styrenesulfonic acid)-impregnated alginate capsule for the selective sorption of Pd(II) from a Pt(IV)-Pd(II) binary solution. Journal of Hazardous Materials, 2016, 318, 79-89.	6.5	38
100	Structural effects of ionic liquids on microalgal growth inhibition and microbial degradation. Environmental Science and Pollution Research, 2016, 23, 4294-4300.	2.7	38
101	Treatment of food wastes using slurry-phase decomposition. Bioresource Technology, 2000, 73, 21-27.	4.8	37
102	Comment on the Removal Mechanism of Hexavalent Chromium by Biomaterials or Biomaterial-Based Activated Carbons. Industrial & Engineering Chemistry Research, 2006, 45, 2405-2407.	1.8	37
103	On-line estimation of key process variables based on kernel partial least squares in an industrial cokes wastewater treatment plant. Journal of Hazardous Materials, 2009, 161, 538-544.	6.5	37
104	Modelling for antimicrobial activities of ionic liquids towards Escherichia coli, Staphylococcus aureus and Candida albicans using linear free energy relationship descriptors. Journal of Hazardous Materials, 2016, 311, 168-175.	6.5	37
105	A strategy for promoting astaxanthin accumulation in Haematococcus pluvialis by 1-aminocyclopropane-1-carboxylic acid application. Journal of Biotechnology, 2016, 236, 120-127.	1.9	36
106	Low-cost renewable adsorbent developed from waste textile fabric and its application to heavy metal adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 250-258.	2.7	35
107	Comprehensive approach for predicting toxicological effects of ionic liquids on several biological systems using unified descriptors. Scientific Reports, 2016, 6, 33403.	1.6	35
108	Improving the quality of runoff from green roofs through synergistic biosorption and phytoremediation techniques: A review. Sustainable Cities and Society, 2019, 46, 101381.	5.1	35

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109	Adsorption performance and mechanism in binding of Reactive Red 4 by coke waste. Journal of Hazardous Materials, 2006, 138, 370-377.	6.5	33
110	Green fabrication of zirconia nano-chains using novel Curcuma longa tuber extract. Materials Letters, 2013, 98, 242-245.	1.3	33
111	Biosorption of Nickel(II) from aqueous solution by the fungal mat of Trametes versicolor (rainbow) biomass: equilibrium, kinetics, and thermodynamic studies. Biotechnology and Bioprocess Engineering, 2013, 18, 280-288.	1.4	32
112	Use of ion-exchange resins for the adsorption of the cationic part of ionic liquid, 1-ethyl-3-methylimidazolium. Chemical Engineering Journal, 2013, 214, 78-82.	6.6	32
113	Optimum condition for the removal of Cr(VI) or total Cr using dried leaves of Pinus densiflora. Desalination, 2011, 271, 309-314.	4.0	31
114	Effect of pH on the binding mechanisms in biosorption of Reactive Orange 16 by Corynebacterium glutamicum. Journal of Colloid and Interface Science, 2009, 331, 83-89.	5.0	30
115	Recovery of microbially synthesized gold nanoparticles using sodium citrate and detergents. Chemical Engineering Journal, 2013, 214, 253-261.	6.6	30
116	Recovery of gold via adsorption-incineration techniques using banana peel and its derivatives: Selectivity and mechanisms. Waste Management, 2020, 113, 225-235.	3.7	30
117	Determination of the time transferring cells for astaxanthin production considering two-stage process of Haematococcus pluvialis cultivation. Bioresource Technology, 2011, 102, 11249-11253.	4.8	29
118	Characterization of the residual biochemical components of sequentially extracted banana peel biomasses and their environmental remediation applications. Waste Management, 2019, 89, 141-153.	3.7	29
119	Development of gas recycling photobioreactor system for microalgal carbon dioxide fixation. Korean Journal of Chemical Engineering, 1997, 14, 297-300.	1.2	28
120	Column study on Cr(VI)-reduction using the brown seaweed Ecklonia biomass. Journal of Hazardous Materials, 2006, 137, 1377-1384.	6.5	28
121	Enhanced abiotic reduction of Cr(VI) in a soil slurry system by natural biomaterial addition. Journal of Hazardous Materials, 2008, 160, 422-427.	6.5	28
122	Self-coagulating polyelectrolyte complexes for target-tunable adsorption and separation of metal ions. Journal of Hazardous Materials, 2021, 401, 123352.	6.5	28
123	Effect of Ni(II) on the reduction of Cr(VI) by Ecklonia biomass. Bioresource Technology, 2006, 97, 1592-1598.	4.8	27
124	Immobilized citric acid-treated bacterial biosorbents for the removal of cationic pollutants. Chemical Engineering Journal, 2010, 162, 662-668.	6.6	27
125	Development of waste biomass based sorbent for removal of cyanotoxin microcystin-LR from aqueous phases. Bioresource Technology, 2018, 247, 690-696.	4.8	27
126	Enhancement of CO2 tolerance of Chlorella vulgaris by gradual increase of CO2 concentration. Biotechnology Letters, 1996, 10, 713.	0.5	26

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127	Effect of imidazoliumâ€based ionic liquids on the photosynthetic activity and growth rate of Selenastrum capricornutum. Environmental Toxicology and Chemistry, 2008, 27, 1583-1589.	2.2	26
128	Recovery of zero-valent gold from cyanide solution by a combined method of biosorption and incineration. Bioresource Technology, 2010, 101, 8587-8592.	4.8	26
129	Synthesis of thiourea-immobilized polystyrene nanoparticles and their sorption behavior with respect to silver ions in aqueous phase. Journal of Hazardous Materials, 2018, 344, 398-407.	6.5	26
130	Adsorptive interaction of cationic pharmaceuticals on activated charcoal: Experimental determination and QSAR modelling. Journal of Hazardous Materials, 2018, 360, 529-535.	6.5	26
131	Adsorptive removal of endocrine-disrupting compounds and a pharmaceutical using activated charcoal from aqueous solution: kinetics, equilibrium, and mechanism studies. Environmental Science and Pollution Research, 2019, 26, 33897-33905.	2.7	26
132	Evaluation of fermentation waste (Corynebacterium glutamicum) as a biosorbent for the treatment of nickel(II)-bearing solutions. Biochemical Engineering Journal, 2008, 41, 228-233.	1.8	25
133	Synthesis, characterization and mechanistic insights of mycogenic iron oxide nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	25
134	In silico prediction of linear free energy relationship descriptors of neutral and ionic compounds. RSC Advances, 2015, 5, 80634-80642.	1.7	25
135	Fabrication of Stable and Regenerable Amine Functionalized Magnetic Nanoparticles as a Potential Material for Pt(IV) Recovery from Acidic Solutions. ACS Applied Materials & Interfaces, 2017, 9, 18650-18659.	4.0	25
136	High-performance and acid-tolerant polyethylenimine-aminated polyvinyl chloride fibers: fabrication and application for recovery of platinum from acidic wastewaters. Journal of Environmental Chemical Engineering, 2019, 7, 102839.	3.3	25
137	Development of prediction models for adsorption properties of chitin and chitosan for micropollutants. Chemical Engineering Journal, 2021, 426, 131341.	6.6	25
138	Reinforcement of carboxyl groups in the surface of Corynebacterium glutamicum biomass for effective removal of basic dyes. Bioresource Technology, 2009, 100, 6301-6306.	4.8	24
139	An Assessment on the Interaction of a Hydrophilic Ionic Liquid with Different Sorbents. Industrial & Engineering Chemistry Research, 2009, 48, 7283-7288.	1.8	24
140	Estimating environmental fate of tricyclic antidepressants in wastewater treatment plant. Science of the Total Environment, 2018, 634, 52-58.	3.9	24
141	Simple, green organic acid-based hydrometallurgy for waste-to-energy storage devices: Recovery of NiMnCoC2O4 as an electrode material for pseudocapacitor from spent LiNiMnCoO2 batteries. Journal of Hazardous Materials, 2022, 424, 127481.	6.5	24
142	Preparation of PEI-coated bacterial biosorbent in water solution: Optimization of manufacturing conditions using response surface methodology. Bioresource Technology, 2011, 102, 1462-1467.	4.8	23
143	Decarboxylated polyethylenimine-modified bacterial biosorbent for Ru biosorption from Ru-bearing acetic acid wastewater. Chemical Engineering Journal, 2013, 230, 303-307.	6.6	22
144	Recovery of metallic palladium from hydrochloric acid solutions by a combined method of adsorption and incineration. Chemical Engineering Journal, 2013, 218, 303-308.	6.6	22

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145	Effective Recovery of Pt(IV) from Acidic Solution by a Defective Metalâ€“Organic Frameworks Using Central Composite Design for Synthesis. ACS Sustainable Chemistry and Engineering, 2019, 7, 7510-7518.	3.2	22
146	QSAR modelling for predicting adsorption of neutral, cationic, and anionic pharmaceuticals and other neutral compounds to microalgae Chlorella vulgaris in aquatic environment. Water Research, 2019, 151, 288-295.	5.3	22
147	Polyethyleneimine impregnated alginate capsule as a high capacity sorbent for the recovery of monovalent and trivalent gold. Scientific Reports, 2021, 11, 17836.	1.6	22
148	Comment on â€œChromate ion adsorption by agricultural by-products modified with dimethyloldihydroxylethylene urea and choline chlorideâ€•by Wartelle and Marshall. Water Research, 2006, 40, 1501-1504.	5.3	21
149	Surface modification of the Corynebacterium glutamicum biomass to increase carboxyl binding site for basic dye molecules. Biochemical Engineering Journal, 2009, 46, 1-6.	1.8	21
150	Interpretation of toxicological activity of ionic liquids to acetylcholinesterase inhibition via in silico modelling. Chemosphere, 2016, 159, 178-183.	4.2	21
151	Microalgal photosynthetic activity measurement system for rapid toxicity assessment. Ecotoxicology, 2008, 17, 455-463.	1.1	20
152	Development of Poly(acrylic acid)-Modified Bacterial Biomass As a High-Performance Biosorbent for Removal of Cd(II) from Aqueous Solution. Industrial & Engineering Chemistry Research, 2013, 52, 6446-6452.	1.8	20
153	L-cysteine impregnated alginate capsules as a sorbent for gold recovery. Polymer Degradation and Stability, 2014, 109, 424-429.	2.7	20
154	Preparation of polyaniline-coated polystyrene nanoparticles for the sorption of silver ions. Reactive and Functional Polymers, 2016, 105, 52-59.	2.0	20
155	Adsorptive separation of Pb(II) and Cu(II) from aqueous solutions using as-prepared carboxymethylated waste Lyocell fiber. International Journal of Environmental Science and Technology, 2016, 13, 875-886.	1.8	20
156	Facile fabrication of polyacrylic acid-polyvinyl chloride composite adsorbents for the treatment of cadmium-contaminated wastewater. Journal of Environmental Chemical Engineering, 2018, 6, 2401-2408.	3.3	20
157	Ionic liquid-assisted cellulose coating of chitosan hydrogel beads and their application as drug carriers. Scientific Reports, 2020, 10, 13905.	1.6	19
158	Organic acid-based linear free energy relationship models for green leaching of strategic metals from spent lithium-ion batteries and improvement of leaching performance. Journal of Hazardous Materials, 2022, 423, 127214.	6.5	19
159	Removal of 1-ethyl-3-methylimidazolium cations with bacterial biosorbents from aqueous media. Journal of Hazardous Materials, 2013, 244-245, 130-134.	6.5	18
160	Development of Surface-Modified Polyacrylonitrile Fibers and Their Selective Sorption Behavior of Precious Metals. Applied Sciences (Switzerland), 2016, 6, 378.	1.3	18
161	Preparation, characterization and lead adsorption study of tripolyphosphate-modified waste Lyocell fibers. Journal of Environmental Chemical Engineering, 2017, 5, 412-421.	3.3	18
162	Removal of Basic Blue 3 from aqueous solution by Corynebacterium glutamicum biomass: Biosorption and precipitation mechanisms. Korean Journal of Chemical Engineering, 2008, 25, 1060-1064.	1.2	17

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