

Khalid Z Elwakeel

List of Publications by Citations

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138
papers

8,186
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140
ext. papers

9,350
ext. citations

6.9
avg, IF

6.91
L-index

#	Paper	IF	Citations
138	Interactions of metal ions with chitosan-based sorbents: a review. <i>Separation and Purification Technology</i> , 2004 , 38, 43-74	8.3	1349
137	Metal-Anion Sorption by Chitosan Beads: Equilibrium and Kinetic Studies. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 1454-1463	3.9	381
136	Characterization of metal ion interactions with chitosan by X-ray photoelectron spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 177, 203-214	5.1	262
135	Palladium sorption on glutaraldehyde-crosslinked chitosan. <i>Reactive and Functional Polymers</i> , 2000 , 45, 155-173	4.6	236
134	Recovery of gold(III) and silver(I) on a chemically modified chitosan with magnetic properties. <i>Hydrometallurgy</i> , 2007 , 87, 197-206	4	192
133	Selective separation of mercury(II) using magnetic chitosan resin modified with Schiff's base derived from thiourea and glutaraldehyde. <i>Journal of Hazardous Materials</i> , 2008 , 151, 372-9	12.8	186
132	Removal of an anionic dye (Acid Blue 92) by coagulation-flocculation using chitosan. <i>Journal of Environmental Management</i> , 2009 , 90, 2979-86	7.9	176
131	Palladium and platinum recovery from bicomponent mixtures using chitosan derivatives. <i>Hydrometallurgy</i> , 2005 , 76, 131-147	4	143
130	Removal of Reactive Black 5 from aqueous solutions using magnetic chitosan resins. <i>Journal of Hazardous Materials</i> , 2009 , 167, 383-92	12.8	136
129	Gold sorption on chitosan derivatives. <i>Hydrometallurgy</i> , 2003 , 71, 191-200	4	130
128	Removal of Cr(VI) from alkaline aqueous solutions using chemically modified magnetic chitosan resins. <i>Desalination</i> , 2010 , 250, 105-112	10.3	127
127	Functionalization of polyacrylonitrile/Na-Y-zeolite composite with amidoxime groups for the sorption of Cu(II), Cd(II) and Pb(II) metal ions. <i>Chemical Engineering Journal</i> , 2018 , 332, 727-736	14.7	116
126	Treatment of arsenic-containing solutions using chitosan derivatives: uptake mechanism and sorption performances. <i>Water Research</i> , 2002 , 36, 3699-710	12.5	116
125	Metal anion sorption on chitosan and derivative materials: a strategy for polymer modification and optimum use. <i>Reactive and Functional Polymers</i> , 2004 , 60, 137-149	4.6	115
124	Selective separation of mercury (II) using a synthetic resin containing amine and mercaptan as chelating groups. <i>Reactive and Functional Polymers</i> , 2005 , 65, 267-275	4.6	105
123	Gold(III) recovery using synthetic chelating resins with amine, thio and amine/mercaptan functionalities. <i>Separation and Purification Technology</i> , 2005 , 42, 111-116	8.3	103
122	Environmental Application of Chitosan Resins for the Treatment of Water and Wastewater: A Review. <i>Journal of Dispersion Science and Technology</i> , 2010 , 31, 273-288	1.5	100

121	Arsenic(V) sorption on molybdate-impregnated chitosan beads. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 170, 19-31	5.1	100
120	Arsenic(V) sorption using chitosan/Cu(OH) ₂ and chitosan/CuO composite sorbents. <i>Carbohydrate Polymers</i> , 2015 , 134, 190-204	10.3	99
119	Uranium extraction using magnetic nano-based particles of diethylenetriamine-functionalized chitosan: Equilibrium and kinetic studies. <i>Chemical Engineering Journal</i> , 2015 , 262, 198-209	14.7	98
118	Fast removal of uranium from aqueous solutions using tetraethylenepentamine modified magnetic chitosan resin. <i>Bioresource Technology</i> , 2014 , 160, 107-14	11	98
117	Extraction and separation studies of silver(I) and copper(II) from their aqueous solution using chemically modified melamine resins. <i>Hydrometallurgy</i> , 2009 , 96, 27-34	4	98
116	The removal of sulphonated azo-dyes by coagulation with chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 330, 219-226	5.1	96
115	Cysteine-Functionalized Chitosan Magnetic Nano-Based Particles for the Recovery of Light and Heavy Rare Earth Metals: Uptake Kinetics and Sorption Isotherms. <i>Nanomaterials</i> , 2015 , 5, 154-179	5.4	87
114	Preparation of chitosan gel beads by ionotropic molybdate gelation. <i>Biomacromolecules</i> , 2001 , 2, 1198-205		86
113	Metal ion biosorption on chitosan for the synthesis of advanced materials. <i>Journal of Materials Science</i> , 2014 , 49, 5505-5518	4.3	81
112	Fabrication of bentonite/thiourea-formaldehyde composite material for Pb(II), Mn(VII) and Cr(VI) sorption: A combined basic study and industrial application. <i>Journal of Cleaner Production</i> , 2016 , 137, 40-50	10.3	79
111	Acidic dye biosorption onto marine brown macroalgae: Isotherms, kinetic and thermodynamic studies. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 225-234	14.7	72
110	Adsorption of silver(I) on synthetic chelating polymer derived from 3-amino-1,2,4-triazole-5-thiol and glutaraldehyde. <i>Chemical Engineering Journal</i> , 2009 , 151, 30-38	14.7	72
109	Synthesis and adsorption characteristics of grafted hydrazinyl amine magnetite-chitosan for Ni(II) and Pb(II) recovery. <i>Chemical Engineering Journal</i> , 2019 , 362, 310-324	14.7	72
108	Synthesis of α -aminophosphonate functionalized chitosan sorbents: Effect of methyl vs phenyl group on uranium sorption. <i>Chemical Engineering Journal</i> , 2018 , 352, 1022-1034	14.7	72
107	Uranium and europium sorption on amidoxime-functionalized magnetic chitosan micro-particles. <i>Chemical Engineering Journal</i> , 2018 , 344, 124-137	14.7	71
106	Adsorption behaviour of non-transition metal ions on a synthetic chelating resin bearing iminoacetate functions. <i>Separation and Purification Technology</i> , 2005 , 43, 43-48	8.3	71
105	Influence of Chitosan Preprotonation on Reactive Black 5 Sorption Isotherms and Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1-11	3.9	67
104	Fast and selective removal of silver(I) from aqueous media by modified chitosan resins. <i>International Journal of Mineral Processing</i> , 2013 , 120, 26-34		65

103	Diethylenetriamine-functionalized chitosan magnetic nano-based particles for the sorption of rare earth metal ions [Nd(III), Dy(III) and Yb(III)]. <i>Cellulose</i> , 2015 , 22, 2589-2605	5.5	64
102	Uptake of U(VI) from aqueous media by magnetic Schiff's base chitosan composite. <i>Journal of Cleaner Production</i> , 2014 , 70, 292-302	10.3	63
101	Recovery of Metal Ions by Chitosan: Sorption Mechanisms and Influence of Metal Speciation. <i>Macromolecular Bioscience</i> , 2003 , 3, 552-561	5.5	63
100	Selective removal of Hg(II) from aqueous solution by functionalized magnetic-macromolecular hybrid material. <i>Chemical Engineering Journal</i> , 2015 , 281, 345-359	14.7	62
99	Sorption of Acid Green 25 on chitosan: Influence of experimental parameters on uptake kinetics and sorption isotherms. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 1073-1080	2.9	62
98	Removal of Mo(VI) as oxoanions from aqueous solutions using chemically modified magnetic chitosan resins. <i>Hydrometallurgy</i> , 2009 , 97, 21-28	4	59
97	Synthesis of new ammonium chitosan derivatives and their application for dye removal from aqueous media. <i>Chemical Engineering Journal</i> , 2012 , 203, 458-468	14.7	58
96	Amino Acid Functionalized Chitosan Magnetic Nanobased Particles for Uranyl Sorption. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12374-12385	3.9	57
95	Perspectives regarding metal/mineral-incorporating materials for water purification: with special focus on Cr(VI) removal. <i>Materials Advances</i> , 2020 , 1, 1546-1574	3.3	57
94	Influence of Hydrolysis Mechanisms on Molybdate Sorption Isotherms Using Chitosan. <i>Separation Science and Technology</i> , 2000 , 35, 1021-1038	2.5	56
93	Microwave-accelerated sorption of cationic dyes onto green marine algal biomass. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 22704-22722	5.1	51
92	Use of beach bivalve shells located at Port Said coast (Egypt) as a green approach for methylene blue removal. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 578-587	6.8	48
91	Efficient removal of Reactive Black 5 from aqueous media using glycidyl methacrylate resin modified with tetraethylenepentamine. <i>Journal of Hazardous Materials</i> , 2011 , 188, 10-8	12.8	47
90	Palladium and platinum binding on an imidazol containing resin. <i>Hydrometallurgy</i> , 2008 , 92, 1-10	4	46
89	Preparation of a new chitosan-based material and its application for mercury sorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 446, 224-232	5.1	43
88	Influence of Mo(VI) immobilization and temperature on As(V) sorption onto magnetic separable poly p-phenylenediamine-thiourea-formaldehyde polymer. <i>Journal of Hazardous Materials</i> , 2018 , 342, 335-346	12.8	43
87	Magnetic alginate beads with high basic dye removal potential and excellent regeneration ability. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 807-815	0.9	42
86	Sorptive removal of Remazol Brilliant Blue R from aqueous solution by diethylenetriamine functionalized magnetic macro-reticular hybrid material. <i>RSC Advances</i> , 2016 , 6, 22395-22410	3.7	41

85	Removal of divalent manganese from aqueous solution using glycine modified chitosan resin. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 179-186	6.8	41
84	Selective Separation of Fe(III), Cd(II), and Ni(II) from Dilute Solutions Using Solvent-Impregnated Resins. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 6004-6013	3.9	41
83	Investigation of novel nanomaterial for the removal of toxic substances from contaminated water.. <i>RSC Advances</i> , 2019 , 9, 14167-14175	3.7	40
82	Cellulose and chitosan derivatives for enhanced sorption of erbium(III). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 529, 580-593	5.1	39
81	Dy(III) recovery from dilute solutions using magnetic-chitosan nano-based particles grafted with amino acids. <i>Journal of Materials Science</i> , 2015 , 50, 2832-2848	4.3	39
80	Magnetic metal oxide-organic framework material for ultrasonic-assisted sorption of titan yellow and rose bengal from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020 , 392, 123635	14.7	39
79	Comparison between the removal of Reactive Black 5 from aqueous solutions by 3-amino-1,2,4 triazole,5-thiol and melamine grafted chitosan prepared through four different routes. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 733-745	6.8	38
78	Functionalization of Magnetic Chitosan Particles for the Sorption of U(VI), Cu(II) and Zn(II)-Hydrazide Derivative of Glycine-Grafted Chitosan. <i>Materials</i> , 2017 , 10,	3.5	37
77	Palladium sorption on glutaraldehyde-crosslinked chitosan in fixed-bed systems. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 153-165	2.9	37
76	Retention of copper, cadmium and lead from water by Na-Y-Zeolite confined in methyl methacrylate shell. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3698-3710	6.8	35
75	Untapped Sepia ShellBased Composite for the Sorption of Cationic and Anionic Dyes. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1	2.6	34
74	Adsorption of toxic acidic dye from aqueous solution onto diethylenetriamine functionalized magnetic glycidyl methacrylate-N,N'-methylenebisacrylamide. <i>RSC Advances</i> , 2016 , 6, 3350-3361	3.7	34
73	Removal of arsenate from aqueous media by magnetic chitosan resin immobilized with molybdate oxoanions. <i>International Journal of Environmental Science and Technology</i> , 2014 , 11, 1051-1062	3.3	34
72	Recovery of Chromium(VI) Oxyanions from Aqueous Solution Using Cu(OH) ₂ and CuO Embedded Chitosan Adsorbents. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 47-60	4.5	34
71	The synergistic effect of ultrasound power and magnetite incorporation on the sorption/desorption behavior of Cr(VI) and As(V) oxoanions in an aqueous system. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 76-88	9.3	33
70	Removal of ferrous and manganous from water by activated carbon obtained from sugarcane bagasse. <i>Desalination and Water Treatment</i> , 2015 , 55, 471-483		32
69	Synthesis of Chitosan@activated Carbon Beads with Abundant Amino Groups for Capture of Cu(II) and Cd(II) from Aqueous Solutions. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 3590-3602	4.5	31
68	Efficient Retention of Chromate from Industrial Wastewater onto a Green Magnetic Polymer Based on Shrimp Peels. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 2018-2029	4.5	31

67	Competitive adsorption of Cu(II) and Cd(II) ions on spray-dried chitosan loaded with Reactive Orange 16. <i>Materials Science and Engineering C</i> , 2009 , 29, 613-618	8.3	31
66	NON-DISPERSIVE LIQUID EXTRACTION OF Cr(VI) BY TBP/ALIQUAT 336 USING CHITOSAN-MADE HOLLOW FIBER. <i>Solvent Extraction and Ion Exchange</i> , 2000 , 18, 1241-1260	2.5	31
65	Phosphorylation of Guar Gum/Magnetite/Chitosan Nanocomposites for Uranium (VI) Sorption and Antibacterial Applications. <i>Molecules</i> , 2021 , 26,	4.8	31
64	Sulfonic-functionalized algal/PEI beads for scandium, cerium and holmium sorption from aqueous solutions (synthetic and industrial samples). <i>Chemical Engineering Journal</i> , 2021 , 403, 126399	14.7	31
63	Microwave assist sorption of crystal violet and Congo red dyes onto amphoteric sorbent based on upcycled Sepia shells. <i>Journal of Environmental Health Science & Engineering</i> , 2020 , 18, 35-50	2.9	30
62	Amidoxime Functionalization of Algal/Polyethyleneimine Beads for the Sorption of Sr(II) from Aqueous Solutions. <i>Molecules</i> , 2019 , 24,	4.8	29
61	Uranium and neodymium biosorption using novel chelating polysaccharide. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 963-968	7.9	28
60	Efficient removal of uranium, cadmium and mercury from aqueous solutions using grafted hydrazide-micro-magnetite chitosan derivative. <i>Journal of Materials Science</i> , 2020 , 55, 4193-4212	4.3	27
59	2-Mercaptobenzimidazole derivative of chitosan for silver sorption [Contribution of magnetite incorporation and sonication effects on enhanced metal recovery. <i>Chemical Engineering Journal</i> , 2021 , 403, 126265	14.7	27
58	Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview. <i>Nanotechnology for Environmental Engineering</i> , 2021 , 6, 1	5.1	27
57	Aspartic acid grafting on cellulose and chitosan for enhanced Nd(III) sorption. <i>Reactive and Functional Polymers</i> , 2017 , 113, 13-22	4.6	26
56	Synthesis of polyaminophosphonic acid-functionalized poly(glycidyl methacrylate) for the efficient sorption of La(III) and Y(III). <i>Chemical Engineering Journal</i> , 2019 , 375, 121932	14.7	26
55	As(V) sorption from aqueous solutions using quaternized algal/polyethyleneimine composite beads. <i>Science of the Total Environment</i> , 2020 , 719, 137396	10.2	26
54	Efficient removal of ferric ions from aqueous medium by amine modified chitosan resins. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 566-573	6.8	26
53	Adsorption of malathion on thermally treated egg shell material. <i>Water Science and Technology</i> , 2010 , 61, 1035-41	2.2	26
52	Environmental remediation of thorium(IV) from aqueous medium onto Cellulosimicrobium cellulans isolated from radioactive wastewater. <i>Desalination and Water Treatment</i> , 2012 , 46, 1-9		26
51	Multifunctional eco-friendly sorbent based on marine brown algae and bivalve shells for subsequent uptake of Congo red dye and copper(II) ions. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103915	6.8	25
50	Biosorption of lanthanum from aqueous solutions using magnetic alginate beads. <i>Journal of Dispersion Science and Technology</i> , 2017 , 38, 145-151	1.5	24

49	Comparison study of Ag(I) and Au(III) loaded on magnetic thiourea-formaldehyde as disinfectants for water pathogenic microorganism's deactivation. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4380-4390	6.8	24
48	Enhanced Remediation of Reactive Black 5 from Aqueous Media Using New Chitosan Ion Exchangers. <i>Journal of Dispersion Science and Technology</i> , 2013 , 34, 1008-1019	1.5	23
47	Chemical modifications of chitosan nano-based magnetic particles for enhanced uranyl sorption. <i>Hydrometallurgy</i> , 2017 , 168, 127-134	4	23
46	Effect of agitation mode (mechanical, ultrasound and microwave) on uranium sorption using amine- and dithizone-functionalized magnetic chitosan hybrid materials. <i>Chemical Engineering Journal</i> , 2021 , 411, 128553	14.7	23
45	Quaternization of algal/PEI beads (a new sorbent): Characterization and application to scandium sorption from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020 , 383, 123210	14.7	23
44	Facile synthesis of magnetic disinfectant immobilized with silver ions for water pathogenic microorganism's deactivation. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 22797-22809	5.1	23
43	Modeling competitive sorption of lead and copper ions onto alginate and greenly prepared alginate-based beads. <i>Bioresource Technology</i> , 2017 , 231, 26-35	11	22
42	Uranium(VI) and zirconium(IV) sorption on magnetic chitosan derivatives: Effect of different functional groups on separation properties. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3866-3882	3.5	22
41	Sodium and acidic alginate foams with hierarchical porosity: Preparation, characterization and efficiency as a dye adsorbent. <i>Carbohydrate Polymers</i> , 2017 , 178, 78-85	10.3	22
40	Integrated treatment of tailing material for the selective recovery of uranium, rare earth elements and heavy metals. <i>Minerals Engineering</i> , 2019 , 133, 138-148	4.9	21
39	Magnetic chitosan grafted with polymerized thiourea for remazol brilliant blue R recovery: Effects of uptake conditions. <i>Journal of Dispersion Science and Technology</i> , 2017 , 38, 943-952	1.5	21
38	Quaternization of Composite Algal/PEI Beads for Enhanced Uranium Sorption-Application to Ore Acidic Leachate. <i>Gels</i> , 2020 , 6,	4.2	20
37	New highly-percolating alginate-PEI membranes for efficient recovery of chromium from aqueous solutions. <i>Carbohydrate Polymers</i> , 2019 , 225, 115177	10.3	20
36	Potential use of magnetic glycidyl methacrylate resin as a mercury sorbent: From basic study to the application to wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3632-3645	6.8	19
35	A new method for incorporating polyethyleneimine (PEI) in algal beads: High stability as sorbent for palladium recovery and supported catalyst for nitrophenol hydrogenation. <i>Materials Chemistry and Physics</i> , 2019 , 221, 144-155	4.4	19
34	A new route for manufacturing poly(aminophosphonic)-functionalized poly(glycidyl methacrylate)-magnetic nanocomposite - Application to uranium sorption from ore leachate. <i>Environmental Pollution</i> , 2020 , 264, 114797	9.3	18
33	Functionalization of magnetic chitosan microparticles for high-performance removal of chromate from aqueous solutions and tannery effluent. <i>Chemical Engineering Journal</i> , 2022 , 428, 131775	14.7	17
32	Development of phosphoryl-functionalized algal-PEI beads for the sorption of Nd(III) and Mo(VI) from aqueous solutions: Application for rare earth recovery from acid leachates. <i>Chemical Engineering Journal</i> , 2021 , 412, 127399	14.7	16

31	Magnetic Schiff's base sorbent based on shrimp peels wastes for consummate sorption of chromate. <i>Water Science and Technology</i> , 2017 , 76, 35-48	2.2	15
30	Praseodymium sorption on Laminaria digitata algal beads and foams. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 780-789	9.3	14
29	Arsenic Sorption on Chitosan-Based Sorbents: Comparison of the Effect of Molybdate and Tungstate Loading on As(V) Sorption Properties. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 934-947	4.5	13
28	Lauryl sulfate@magnetic graphene oxide nanosorbent for fast methylene blue recovery from aqueous solutions. <i>Journal of Dispersion Science and Technology</i> , 2019 , 40, 707-715	1.5	13
27	Recovery of Heavy Metal Ions Using Magnetic Glycine-Modified Chitosan Application to Aqueous Solutions and Tailing Leachate. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8377	2.6	13
26	Mercury(II) biosorption using Lessonia sp. kelp. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 162, 805-232	3.2	12
25	Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106503	6.8	11
24	Role of identified bacterial consortium in treatment of Quhafa Wastewater Treatment Plant influent in Fayuom, Egypt. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 161	3.1	11
23	A biogenic tunable sorbent produced from upcycling of aquatic biota-based materials functionalized with methylene blue dye for the removal of chromium(VI) ions. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104767	6.8	11
22	2-Mercaptobenzimidazole-functionalized chitosan for enhanced removal of methylene blue: Batch and column studies. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105609	6.8	11
21	Evaluation of adsorption behavior for U(VI) and Nd(III) ions onto fumarated polystyrene microspheres. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 314, 429-437	1.5	10
20	Removal of As(V) from aqueous solution using glycidyl methacrylate resin immobilized with Cu(II)-tetraethylenepentamine complex. <i>Water Science and Technology: Water Supply</i> , 2009 , 9, 181-190	1.4	10
19	Microplastics prevalence, interactions, and remediation in the aquatic environment: A critical review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106224	6.8	10
18	Adsorption of Fe(III) from Aqueous Medium onto Glycine-Modified Chitosan Resin: Equilibrium and Kinetic Studies. <i>Journal of Dispersion Science and Technology</i> , 2014 , 35, 1691-1698	1.5	8
17	Response surface methodological optimization of batch Cu(II) sorption onto succinic acid functionalized SiO ₂ nanoparticles. <i>Canadian Journal of Chemistry</i> , 2019 , 97, 277-286	0.9	7
16	Synthesis of microporous nano-composite (hollow spheres) for fast detection and removal of As(V) from contaminated water. <i>Chemical Engineering Journal</i> , 2020 , 390, 124439	14.7	7
15	U(VI) and Th(IV) recovery using silica beads functionalized with urea- or thiourea-based polymers - Application to ore leachate.. <i>Science of the Total Environment</i> , 2022 , 821, 153184	10.2	7
14	Synthesis of Eiminophosphonate based sorbents Influence of inserted groups (carboxylic vs. amine) on uranyl sorption. <i>Chemical Engineering Journal</i> , 2021 , 421, 127830	14.7	7

13	Groundwater Purification in a Polymetallic Mining Area (SW Sinai, Egypt) Using Functionalized Magnetic Chitosan Particles. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	7
12	Boosted Cr(VI) sorption coupled reduction from aqueous solution using quaternized algal/alginate@PEI beads. <i>Chemosphere</i> , 2021 , 281, 130844	8.4	7
11	Mercury recovery from aqueous solutions by polymer-enhanced ultrafiltration using a sulfate derivative of chitosan. <i>Membrane Water Treatment</i> , 2010 , 1, 231-251		6
10	Efficient Recovery of Rare Earth Elements (Pr(III) and Tm(III)) From Mining Residues Using a New Phosphorylated Hydrogel (Algal Biomass/PEI). <i>Metals</i> , 2021 , 11, 294	2.3	6
9	Novel phosphonate-functionalized composite sorbent for the recovery of lanthanum(III) and terbium(III) from synthetic solutions and ore leachate. <i>Chemical Engineering Journal</i> , 2021 , 424, 130500	14.7	6
8	Eco-friendly Chitosan Condensation Adduct Resins for Removal of Toxic Silver Ions from Aqueous Medium. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 100, 410-421	6.3	5
7	Interaction of Chitosan with Metal Ions: From Environmental Applications to the Elaboration of New Materials. <i>Advanced Materials Research</i> , 2009 , 71-73, 519-526	0.5	4
6	Functionalization of magnetic chitosan microparticles [Comparison of trione and trithione grafting for enhanced silver sorption and application to metal recovery from waste X-ray photographic films. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107939	6.8	4
5	COVID-19 from mysterious enemy to an environmental detection process: a critical review. <i>Innovative Infrastructure Solutions</i> , 2020 , 5, 1	2.3	3
4	Investigation of mercury(II) and copper(II) sorption in single and binary systems by alginate/polyethylenimine membranes. <i>Carbohydrate Polymers</i> , 2021 , 257, 117588	10.3	3
3	Influences of greenly synthesized iron oxide nanoparticles on the bioremediation of dairy effluent using selected microbial isolates. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	2
2	Magnetically separable solid phase extractor for static anionic dyes adsorption from aqueous solutions. <i>Surfaces and Interfaces</i> , 2022 , 101962	4.1	1
1	Selective lead (II) sorption using aminophosphonate-based sorbents: Effect of amine linker, characterization and sorption performance. <i>Chemical Engineering Journal</i> , 2022 , 442, 136300	14.7	1