

Eric Guibal

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281
papers

15,075
citations

68
h-index

110
g-index

286
ext. papers

16,562
ext. citations

6.6
avg. IF

7.13
L-index

#	Paper	IF	Citations
281	Interactions of metal ions with chitosan-based sorbents: a review. <i>Separation and Purification Technology</i> , 2004 , 38, 43-74	8.3	1349
280	Heterogeneous catalysis on chitosan-based materials: a review. <i>Progress in Polymer Science</i> , 2005 , 30, 71-109	29.6	580
279	Metal-Anion Sorption by Chitosan Beads: Equilibrium and Kinetic Studies. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 1454-1463	3.9	381
278	Polymer-supported metals and metal oxide nanoparticles: synthesis, characterization, and applications. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	304
277	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
276	Reactive dye biosorption by <i>Rhizopus arrhizus</i> biomass. <i>Enzyme and Microbial Technology</i> , 2002 , 31, 456-463	4.6	236
275	Palladium sorption on glutaraldehyde-crosslinked chitosan. <i>Reactive and Functional Polymers</i> , 2000 , 45, 155-173	4.6	236
274	Coagulation and flocculation of dye-containing solutions using a biopolymer (Chitosan). <i>Reactive and Functional Polymers</i> , 2007 , 67, 33-42	4.6	227
273	Copper, mercury and chromium adsorption on natural and crosslinked chitosan films: An XPS investigation of mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 374, 108-114	5.1	217
272	Vanadium (IV) sorption by chitosan: Kinetics and equilibrium. <i>Water Research</i> , 1996 , 30, 465-475	12.5	201
271	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
270	Vanadium recovery from oil fly ash by leaching, precipitation and solvent extraction processes. <i>Waste Management</i> , 2007 , 27, 425-38	8.6	166
269	A Review of the Use of Chitosan for the Removal of Particulate and Dissolved Contaminants. <i>Separation Science and Technology</i> , 2006 , 41, 2487-2514	2.5	163
268	Binding of ions to chitosan: Selectivity studies. <i>Carbohydrate Polymers</i> , 2003 , 54, 471-477	10.3	163
267	Uranium biosorption by a filamentous fungus <i>Mucor miehei</i> pH effect on mechanisms and performances of uptake. <i>Water Research</i> , 1992 , 26, 1139-1145	12.5	162
266	Sulfur derivatives of chitosan for palladium sorption. <i>Reactive and Functional Polymers</i> , 2002 , 50, 149-163	4.6	146
265	Enhancement of Metal Ion Sorption Performances of Chitosan: Effect of the Structure on the Diffusion Properties. <i>Langmuir</i> , 1995 , 11, 591-598	4	144

264	Palladium and platinum recovery from bicomponent mixtures using chitosan derivatives. <i>Hydrometallurgy</i> , 2005 , 76, 131-147	4	143
263	Influence of chitosan characteristics on polymer properties. I: Crystallographic properties. <i>Polymer International</i> , 2003 , 52, 198-205	3.3	140
262	Cadmium sorption on chitosan sorbents: kinetic and equilibrium studies. <i>Hydrometallurgy</i> , 2001 , 61, 157-167	4.7	139
261	Chitosan-Supported Palladium Catalyst. 3. Influence of Experimental Parameters on Nitrophenol Degradation. <i>Langmuir</i> , 2003 , 19, 8475-8483	4	131
260	Gold sorption on chitosan derivatives. <i>Hydrometallurgy</i> , 2003 , 71, 191-200	4	130
259	Influence of chitosan characteristics on the coagulation and the flocculation of bentonite suspensions. <i>Water Research</i> , 2005 , 39, 3247-58	12.5	128
258	Chitosan Sorbents for Platinum Sorption from Dilute Solutions. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 4011-4022	3.9	122
257	A novel algal-based sorbent for heavy metal removal. <i>Chemical Engineering Journal</i> , 2018 , 332, 582-595	14.7	121
256	Vanadium Interactions with Chitosan: Influence of Polymer Protonation and Metal Speciation. <i>Langmuir</i> , 2002 , 18, 1567-1573	4	117
255	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
254	Treatment of arsenic-containing solutions using chitosan derivatives: uptake mechanism and sorption performances. <i>Water Research</i> , 2002 , 36, 3699-710	12.5	116
253	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
252	Comparison of the Sorption of Anionic Dyes on Activated Carbon and Chitosan Derivatives from Dilute Solutions. <i>Separation Science and Technology</i> , 2003 , 38, 3049-3073	2.5	109
251	Study of molybdate ion sorption on chitosan gel beads by different spectrometric analyses. <i>International Journal of Biological Macromolecules</i> , 1999 , 24, 49-59	7.9	109
250	Characterization of metal-Biomass interactions in the lanthanum(III) biosorption on Sargassum sp. using SEM/EDX, FTIR, and XPS: Preliminary studies. <i>Chemical Engineering Journal</i> , 2014 , 239, 381-391	14.7	104
249	Infrared spectroscopic study of uranyl biosorption by fungal biomass and materials of biological origin. <i>Environmental Science & Technology</i> , 1995 , 29, 2496-503	10.3	102
248	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
247	Arsenic(V) sorption using chitosan/Cu(OH) ₂ and chitosan/CuO composite sorbents. <i>Carbohydrate Polymers</i> , 2015 , 134, 190-204	10.3	99

246	Chitosan for wastewater treatment. <i>Polymer International</i> , 2018 , 67, 7-14	3.3	99
245	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
244	Fast removal of uranium from aqueous solutions using tetraethylenepentamine modified magnetic chitosan resin. <i>Bioresource Technology</i> , 2014 , 160, 107-14	11	98
243	Cadmium, lead and mercury biosorption on waste fungal biomass issued from fermentation industry. I. Equilibrium studies. <i>Separation and Purification Technology</i> , 2006 , 52, 142-153	8.3	98
242	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
241	Synthesis and characterization of a thiourea derivative of chitosan for platinum recovery. <i>Journal of Applied Polymer Science</i> , 2000 , 75, 119-134	2.9	95
240	Sorption and desorption of uranyl ions by silica gel: pH, particle size and porosity effects. <i>Microporous Materials</i> , 1996 , 5, 309-324		95
239	Biosorption of palladium and platinum by sulfate-reducing bacteria. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 49-56	3.5	90
238	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
237	Copper sorption by chitosan in the presence of citrate ions: influence of metal speciation on sorption mechanism and uptake capacities. <i>International Journal of Biological Macromolecules</i> , 2003 , 33, 57-65	7.9	87
236	Preparation of chitosan gel beads by ionotropic molybdate gelation. <i>Biomacromolecules</i> , 2001 , 2, 1198-205		86
235	Immobilization of metal hexacyanoferrates in chitin beads for cesium sorption: synthesis and characterization. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10007	13	83
234	Flocculation of Escherichia coli using a quaternary ammonium salt grafted carboxymethyl chitosan flocculant. <i>Environmental Science & Technology</i> , 2014 , 48, 6867-73	10.3	82
233	Metal ion biosorption on chitosan for the synthesis of advanced materials. <i>Journal of Materials Science</i> , 2014 , 49, 5505-5518	4.3	81
232	Chromium biosorption using the residue of alginate extraction from Sargassum filipendula. <i>Chemical Engineering Journal</i> , 2014 , 237, 362-371	14.7	80
231	An XPS study of chromate and vanadate sorption mechanism by chitosan membrane containing copper nanoparticles. <i>Chemical Engineering Journal</i> , 2013 , 234, 423-429	14.7	79
230	Equilibrium of Cu(II) and Ni(II) biosorption by marine alga Sargassum filipendula in a dynamic system: competitiveness and selectivity. <i>Bioresource Technology</i> , 2011 , 102, 4610-7	11	76
229	Uranium and vanadium sorption by chitosan and derivatives. <i>Water Science and Technology</i> , 1994 , 30, 183-190	2.2	76

228	Amberlite XAD-7 impregnated with Cyphos IL-101 (tetraalkylphosphonium ionic liquid) for Pd(II) recovery from HCl solutions. <i>Chemical Engineering Journal</i> , 2012 , 185-186, 226-235	14.7	74
227	Gold Recovery from HCl Solutions using Cyphos IL-101 (a Quaternary Phosphonium Ionic Liquid) Immobilized in Biopolymer Capsules. <i>Solvent Extraction and Ion Exchange</i> , 2008 , 26, 570-601	2.5	74
226	Pt recovery using Cyphos IL-101 immobilized in biopolymer capsules. <i>Separation and Purification Technology</i> , 2008 , 62, 470-479	8.3	74
225	Chitosan Interactions with Metal Ions and Dyes: Dissolved-state vs. Solid-state Application. <i>World Journal of Microbiology and Biotechnology</i> , 2005 , 21, 913-920	4.4	74
224	Cr(VI) Extraction Using Aliquat 336 in a Hollow Fiber Module Made of Chitosan. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1406-1411	3.9	74
223	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
222	Biosorption of hexavalent chromium from aqueous solution by <i>Sargassum muticum</i> brown alga. Application of statistical design for process optimization. <i>Chemical Engineering Journal</i> , 2012 , 183, 68-76	14.7	72
221	Zinc(II) Extraction from Hydrochloric Acid Solutions using Amberlite XAD-7 Impregnated with Cyphos IL 101 (Tetradecyl(Trihexyl)Phosphonium Chloride). <i>Separation Science and Technology</i> , 2008 , 43, 2434-2459	2.5	72
220	Chitosan-Supported Palladium Catalyst. 1. Synthesis Procedure. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5158-5164	3.9	72
219	Competitive sorption of platinum and palladium on chitosan derivatives. <i>International Journal of Biological Macromolecules</i> , 2001 , 28, 401-8	7.9	72
218	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
217	Synthesis of Diaminophosphonate functionalized chitosan sorbents: Effect of methyl vs phenyl group on uranium sorption. <i>Chemical Engineering Journal</i> , 2018 , 352, 1022-1034	14.7	72
216	Uranium and europium sorption on amidoxime-functionalized magnetic chitosan micro-particles. <i>Chemical Engineering Journal</i> , 2018 , 344, 124-137	14.7	71
215	Immobilization of Metal Hexacyanoferrate Ion-Exchangers for the Synthesis of Metal Ion Sorbents--A Mini-Review. <i>Molecules</i> , 2015 , 20, 20582-613	4.8	71
214	Adsorption and desorption of binary mixtures of copper and mercury ions on natural and crosslinked chitosan membranes. <i>Adsorption</i> , 2007 , 13, 603-611	2.6	70
213	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
212	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
211	Biosorption of chromium by alginate extraction products from <i>Sargassum filipendula</i> : investigation of adsorption mechanisms using X-ray photoelectron spectroscopy analysis. <i>Bioresource Technology</i> , 2014 , 164, 264-9	11	64

210	Cadmium extraction from hydrochloric acid solutions using Amberlite XAD-7 impregnated with Cyanex 921 (tri-octyl phosphine oxide). <i>Reactive and Functional Polymers</i> , 2008 , 68, 557-571	4.6	64
209	Silver/chitosan/cellulose fibers foam composites: from synthesis to antibacterial properties. <i>Journal of Colloid and Interface Science</i> , 2013 , 393, 411-20	9.3	63
208	Recovery of Metal Ions by Chitosan: Sorption Mechanisms and Influence of Metal Speciation. <i>Macromolecular Bioscience</i> , 2003 , 3, 552-561	5.5	63
207	Chemical modification of alginate for enhanced sorption of Cd(II), Cu(II) and Pb(II). <i>Chemical Engineering Journal</i> , 2017 , 316, 704-714	14.7	62
206	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
205	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
204	Recovering Heavy Metal Ions from Complex Solutions Using Polyethylenimine Derivatives Encapsulated in Alginate Matrix. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2461-2470	3.9	60
203	Zinc and cadmium removal by biosorption on <i>Undaria pinnatifida</i> in batch and continuous processes. <i>Journal of Environmental Management</i> , 2013 , 129, 423-34	7.9	60
202	Immobilization of extractants in biopolymer capsules for the synthesis of new resins: a focus on the encapsulation of tetraalkyl phosphonium ionic liquids. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8515		59
201	Immobilization of Cyphos IL-101 in biopolymer capsules for the synthesis of Pd sorbents. <i>Reactive and Functional Polymers</i> , 2008 , 68, 1159-1169	4.6	59
200	Pd(II) and Pt(IV) sorption using alginate and algal-based beads. <i>Chemical Engineering Journal</i> , 2017 , 313, 567-579	14.7	57
199	Amino Acid Functionalized Chitosan Magnetic Nanobased Particles for Uranyl Sorption. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12374-12385	3.9	57
198	Influence of physicochemical and structural characteristics of chitosan flakes on molybdate sorption. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 571-580	2.9	57
197	Extraction of Cadmium from Phosphoric Acid Using Resins Impregnated with Organophosphorus Extractants. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1422-1433	3.9	57
196	Mercury sorption on a thiocarbamoyl derivative of chitosan. <i>Journal of Hazardous Materials</i> , 2009 , 165, 415-26	12.8	56
195	Influence of Hydrolysis Mechanisms on Molybdate Sorption Isotherms Using Chitosan. <i>Separation Science and Technology</i> , 2000 , 35, 1021-1038	2.5	56
194	Nickel biosorption using <i>Gracilaria caudata</i> and <i>Sargassum muticum</i> . <i>Chemical Engineering Journal</i> , 2011 , 166, 122-131	14.7	55
193	Samarium(III) and praseodymium(III) biosorption on <i>Sargassum</i> sp.: Batch study. <i>Process Biochemistry</i> , 2011 , 46, 736-744	4.8	54

192	Chitin-Prussian blue sponges for Cs(I) recovery: from synthesis to application in the treatment of accidental dumping of metal-bearing solutions. <i>Journal of Hazardous Materials</i> , 2015 , 287, 171-9	12.8	53
191	Cadmium(II) recovery from hydrochloric acid solutions using Amberlite XAD-7 impregnated with a tetraalkyl phosphonium ionic liquid. <i>Reactive and Functional Polymers</i> , 2011 , 71, 1059-1070	4.6	53
190	Uptake of uranyl ions by new sorbing polymers: discussion of adsorption isotherms and pH effect. <i>Reactive & Functional Polymers</i> , 1994 , 23, 147-156		52
189	Palladium supported on chitosan hollow fiber for nitrotoluene hydrogenation. <i>Journal of Membrane Science</i> , 2009 , 329, 30-45	9.6	51
188	Mercury Recovery by Polymer-Enhanced Ultrafiltration: Comparison of Chitosan and Poly(Ethylenimine) Used as Macroligand. <i>Separation Science and Technology</i> , 2005 , 40, 659-684	2.5	49
187	Immobilization of inorganic ion-exchanger into biopolymer foams [Application to cesium sorption. <i>Chemical Engineering Journal</i> , 2014 , 236, 202-211	14.7	48
186	CYPHOS IL 101 (Tetradecyl(Trihexyl)Phosphonium Chloride) Immobilized in Biopolymer Capsules for Hg(II) Recovery from HCl Solutions. <i>Separation Science and Technology</i> , 2008 , 43, 2406-2433	2.5	48
185	Chitosan for the Coagulation and Flocculation of Mineral Colloids. <i>Journal of Dispersion Science and Technology</i> , 2005 , 25, 663-677	1.5	48
184	Pd and Pt recovery using chitosan gel beads. I. Influence of the drying process on diffusion properties. <i>Separation Science and Technology</i> , 2002 , 37, 2143-2166	2.5	48
183	Influence of polymer structural parameters and experimental conditions on metal anion sorption by chitosan. <i>Polymer International</i> , 1999 , 48, 671-680	3.3	48
182	Molybdate Sorption by Cross-Linked Chitosan Beads: Dynamic Studies. <i>Water Environment Research</i> , 1999 , 71, 10-17	2.8	48
181	Zinc and cadmium biosorption by untreated and calcium-treated <i>Macrocystis pyrifera</i> in a batch system. <i>Bioresource Technology</i> , 2012 , 116, 195-203	11	47
180	Bismuth recovery from acidic solutions using Cyphos IL-101 immobilized in a composite biopolymer matrix. <i>Water Research</i> , 2008 , 42, 4019-31	12.5	47
179	Palladium and platinum binding on an imidazol containing resin. <i>Hydrometallurgy</i> , 2008 , 92, 1-10	4	46
178	From natural polysaccharides to materials for catalysis, adsorption, and remediation. <i>Topics in Current Chemistry</i> , 2010 , 294, 165-97		45
177	Sorption of uranyl ions by a modified chitosan: Kinetic and equilibrium studies. <i>Environmental Technology (United Kingdom)</i> , 1992 , 13, 1101-1115	2.6	45
176	Alginate and Algal-Based Beads for the Sorption of Metal Cations: Cu(II) and Pb(II). <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	45
175	Development of a new chitosan/Ni(OH) ₂ -based sorbent for boron removal. <i>Chemical Engineering Journal</i> , 2014 , 244, 576-586	14.7	44

174	Boron recovery from seawater with a new low-cost adsorbent material. <i>Chemical Engineering Journal</i> , 2014 , 254, 463-471	14.7	44
173	Pb(II) and Cd(II) biosorption on <i>Chondracanthus chamissoi</i> (a red alga). <i>Journal of Hazardous Materials</i> , 2011 , 185, 922-9	12.8	44
172	Chitosan-supported palladium catalyst. 5. Nitrophenol degradation using palladium supported on hollow chitosan fibers. <i>Environmental Science & Technology</i> , 2004 , 38, 4233-40	10.3	44
171	STUDY OF THE SORPTION OF Cr(III) WITH XAD-2 RESIN IMPREGNATED WITH DI-(2,4,4 TRIMETHYLPENTYL)PHOSPHINICACID (CYANEX 272). <i>Solvent Extraction and Ion Exchange</i> , 2000 , 18, 319-343	2.5	44
170	Thallium(I) sorption using Prussian blue immobilized in alginate capsules. <i>Carbohydrate Polymers</i> , 2014 , 99, 517-26	10.3	43
169	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
168	Application of Silica Gel to Metal Ion Sorption: Static and Dynamic Removal of Uranyl Ions. <i>Environmental Technology (United Kingdom)</i> , 1995 , 16, 101-114	2.6	43
167	Chromium removal on chitosan-based sorbents [An EXAFS/XANES investigation of mechanism. <i>Materials Chemistry and Physics</i> , 2014 , 146, 412-417	4.4	42
166	Gold(III) Recovery From HCl Solutions using Amberlite XAD-7 Impregnated with an Ionic Liquid (Cyphos IL-101). <i>Separation Science and Technology</i> , 2010 , 45, 1950-1962	2.5	42
165	Extraction of Fe(III) from hydrochloric acid solutions using Amberlite XAD-7 resin impregnated with trioctylphosphine oxide (Cyanex 921). <i>Hydrometallurgy</i> , 2009 , 98, 257-266	4	42
164	Characterization and evaluation of copper and nickel biosorption on acidic algae <i>Sargassum Filipendula</i> . <i>Materials Research</i> , 2010 , 13, 541-550	1.5	41
163	Biosorption of Reactive Black 5 from aqueous solutions by chitosan: column studies. <i>Journal of Environmental Management</i> , 2010 , 91, 2669-75	7.9	41
162	PLATINUM AND PALLADIUM SORPTION ON CHITOSAN DERIVATIVES. <i>Separation Science and Technology</i> , 2001 , 36, 1017-1040	2.5	41
161	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
160	Amidoxime functionalization of a poly(acrylonitrile)/silica composite for the sorption of Ga(III) [Application to the treatment of Bayer liquor. <i>Chemical Engineering Journal</i> , 2019 , 368, 459-473	14.7	40
159	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
158	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
157	Chitosan-Supported Palladium Catalyst. II. Chlorophenol Dehalogenation. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 5968-5976	3.9	39

156	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
155	Biosorption of mercury by <i>Macrocystis pyrifera</i> and <i>Undaria pinnatifida</i> : influence of zinc, cadmium and nickel. <i>Journal of Environmental Sciences</i> , 2011 , 23, 1778-86	6.4	38
154	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
153	Copper and nickel competitive biosorption simulation from single and binary systems by <i>Sargassum filipendula</i> . <i>Chemical Engineering Journal</i> , 2012 , 184, 16-22	14.7	37
152	Palladium sorption on glutaraldehyde-crosslinked chitosan in fixed-bed systems. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 153-165	2.9	37
151	Sulfur-Containing Chitin and Chitosan Derivatives as Trace Metal Adsorbents: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 1741-1794	11.1	36
150	Synthesis and characterization of poly(carboxymethyl)-cellulose for enhanced La(III) sorption. <i>Carbohydrate Polymers</i> , 2017 , 157, 1809-1820	10.3	35
149	Biosorption and desorption of lanthanum(III) and neodymium(III) in fixed-bed columns with <i>Sargassum sp.</i> : perspectives for separation of rare earth metals. <i>Biotechnology Progress</i> , 2012 , 28, 715-22 ⁸	2.8	33
148	Immobilization of Cyphos Ionic Liquids in Alginate Capsules for Cd(II) Sorption. <i>Separation Science and Technology</i> , 2010 , 45, 1935-1949	2.5	33
147	Pd and Pt recovery using chitosan gel beads. II. Influence of chemical modifications on sorption properties. <i>Separation Science and Technology</i> , 2002 , 37, 2385-2403	2.5	33
146	Importance of the Conditioning of the Chitosan Support in a Catalyst-Containing Ionic Liquid Phase Immobilised on Chitosan: The Palladium-Catalysed Allylation Reaction Case. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 433-439	5.6	32
145	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
144	Influence of chitosan characteristics on polymer properties: II. Platinum sorption properties. <i>Polymer International</i> , 2003 , 52, 206-212	3.3	31
143	NON-DISPERSIVE LIQUID EXTRACTION OF Cr(VI) BY TBP/ALIQAT 336 USING CHITOSAN-MADE HOLLOW FIBER. <i>Solvent Extraction and Ion Exchange</i> , 2000 , 18, 1241-1260	2.5	31
142	Phosphorylation of Guar Gum/Magnetite/Chitosan Nanocomposites for Uranium (VI) Sorption and Antibacterial Applications. <i>Molecules</i> , 2021 , 26,	4.8	31
141	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
140	Pb(II) biosorption on <i>Posidonia oceanica</i> biomass. <i>Chemical Engineering Journal</i> , 2011 , 168, 1174-1184	14.7	30
139	Osmium and Iridium Sorption on Chitosan Derivatives. <i>Solvent Extraction and Ion Exchange</i> , 2003 , 21, 307-329	2.5	30

138	Amidoxime Functionalization of Algal/Polyethyleneimine Beads for the Sorption of Sr(II) from Aqueous Solutions. <i>Molecules</i> , 2019 , 24,	4.8	29
137	Uranium and neodymium biosorption using novel chelating polysaccharide. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 963-968	7.9	28
136	Encapsulation of ammonium molybdophosphate and zirconium phosphate in alginate matrix for the sorption of rubidium(I). <i>Journal of Colloid and Interface Science</i> , 2013 , 409, 141-50	9.3	27
135	Removal of heavy metal ions from aqueous solutions by a local dairy sludge as a biosorbant. <i>Desalination</i> , 2010 , 262, 243-250	10.3	27
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