

Palladium sorption on glutaraldehyde-crosslinked chito

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Competitive sorption of platinum and palladium on chitosan derivatives. International Journal of Biological Macromolecules, 2001, 28, 401-408.	7.5	79
2	Palladium sorption on glutaraldehyde-crosslinked chitosan in fixed-bed systems. Journal of Applied Polymer Science, 2001, 81, 153-165.	2.6	40
3	Comparative Adsorption of Lead(II) on Flake and Beadâ€”Types of Chitosan. Journal of the Chinese Chemical Society, 2002, 49, 625-628.	1.4	46
4	Cation-Exchange Porous Hollow-Fiber Membranes Prepared by Radiation-Induced Cografting of GMA and EDMA Which Improved Pure Water Permeability and Sodium Ion Adsorptivity. Industrial & Engineering Chemistry Research, 2002, 41, 5686-5691.	3.7	22
5	Mechanisms of Lead Adsorption on Chitosan/PVA Hydrogel Beads. Langmuir, 2002, 18, 9765-9770.	3.5	560
6	Chitosan-Supported Palladium Catalyst. 1. Synthesis Procedure. Industrial & Engineering Chemistry Research, 2002, 41, 5158-5164.	3.7	76
7	Pd and Pt recovery using chitosan gel beads. II. Influence of chemical modifications on sorption properties. Separation Science and Technology, 2002, 37, 2385-2403.	2.5	35
8	Vanadium Interactions with Chitosan:â€”Influence of Polymer Protonation and Metal Speciation. Langmuir, 2002, 18, 1567-1573.	3.5	127
9	Pd and Pt recovery using chitosan gel beads. I. Influence of the drying process on diffusion properties. Separation Science and Technology, 2002, 37, 2143-2166.	2.5	56
10	Chemical Modification of Chitosan. 13.1 Synthesis of Organosoluble, Palladium Adsorbable, and Biodegradable Chitosan Derivatives toward the Chemical Plating on Plasticsâ€”. Biomacromolecules, 2002, 3, 1120-1125.	5.4	70
11	Sulfur derivatives of chitosan for palladium sorption. Reactive and Functional Polymers, 2002, 50, 149-163.	4.1	159
12	Recovery of Metal Ions by Chitosan: Sorption Mechanisms and Influence of Metal Speciation. Macromolecular Bioscience, 2003, 3, 552-561.	4.1	73
13	Gold sorption on chitosan derivatives. Hydrometallurgy, 2003, 71, 191-200.	4.3	146
14	Influence of chitosan characteristics on polymer properties: II. Platinum sorption properties. Polymer International, 2003, 52, 206-212.	3.1	33
15	Chitosan-Supported Palladium Catalyst. 3. Influence of Experimental Parameters on Nitrophenol Degradation. Langmuir, 2003, 19, 8475-8483.	3.5	149
16	Chitosan-Supported Palladium Catalyst. II. Chlorophenol Dehalogenation. Industrial & Engineering Chemistry Research, 2003, 42, 5968-5976.	3.7	44
17	Copper sorption by chitosan in the presence of citrate ions: influence of metal speciation on sorption mechanism and uptake capacities. International Journal of Biological Macromolecules, 2003, 33, 57-65.	7.5	96
18	Osmium and Iridium Sorption on Chitosan Derivatives. Solvent Extraction and Ion Exchange, 2003, 21, 307-329.	2.0	30

#	ARTICLE	IF	CITATIONS
19	Interactions of metal ions with chitosan-based sorbents: a review. Separation and Purification Technology, 2004, 38, 43-74.	7.9	1,552
20	Study of Palladium Complexes with Chitosan and Its Derivatives as Potential Catalysts for Terminal Olefin Oxidation. Kinetics and Catalysis, 2004, 45, 743-751.	1.0	12
21	Metal anion sorption on chitosan and derivative materials: a strategy for polymer modification and optimum use. Reactive and Functional Polymers, 2004, 60, 137-149.	4.1	136
22	Chitosan-supported palladium catalyst. IV. Influence of temperature on nitrophenol degradation and thermodynamic parameters. Journal of Environmental Management, 2004, 71, 15-23.	7.8	27
23	Heterogenized palladium chitosan complexes as potential catalysts in oxidation reactions: study of the structure. Journal of Molecular Catalysis A, 2004, 209, 97-106.	4.8	80
24	Chitosan supported palladium catalyst. VI. Nitroaniline degradation. Journal of Applied Polymer Science, 2004, 94, 1634-1642.	2.6	29
25	Biosorption of palladium and platinum by sulfate-reducing bacteria. Journal of Chemical Technology and Biotechnology, 2004, 79, 49-56.	3.2	106
26	Hydrogels as adsorbents of organosulphur compounds currently found in diesel. Chemical Engineering and Processing: Process Intensification, 2004, 43, 1587-1595.	3.6	41
27	Metal complexation by chitosan and its derivatives: a review. Carbohydrate Polymers, 2004, 55, 77-93.	10.2	981
28	Chitosan-Supported Palladium Catalyst. 5. Nitrophenol Degradation Using Palladium Supported on Hollow Chitosan Fibers. Environmental Science & Technology, 2004, 38, 4233-4240.	10.0	49
29	Selective Adsorption of Dibenzothiophene Sulfone by an Imprinted and Stimuli-Responsive Chitosan Hydrogel. Macromolecules, 2004, 37, 2938-2943.	4.8	76
30	Recent developments in polysaccharide-based materials used as adsorbents in wastewater treatment. Progress in Polymer Science, 2005, 30, 38-70.	24.7	1,812
31	Heterogeneous catalysis on chitosan-based materials: a review. Progress in Polymer Science, 2005, 30, 71-109.	24.7	648
32	Palladium and platinum recovery from bicomponent mixtures using chitosan derivatives. Hydrometallurgy, 2005, 76, 131-147.	4.3	161
33	Adsorption of silver(I) and gold(III) on resins derived from bithiourea and application to retrieval of silver ions from processed photo films. Hydrometallurgy, 2005, 80, 98-106.	4.3	100
34	Studies of sorption of Pd(II) microquantities on strongly basic polyacrylate anion exchangers. Desalination, 2005, 175, 289-295.	8.2	24
35	Chitosan Interactions with Metal Ions and Dyes: Dissolved-state vs. Solid-state Application. World Journal of Microbiology and Biotechnology, 2005, 21, 913-920.	3.6	90
36	Applications of Functionalized Chitosan in Catalysis. Industrial & Engineering Chemistry Research, 2005, 44, 8499-8520.	3.7	239

#	ARTICLE	IF	CITATIONS
37	A Novel Amine-Shielded Surface Cross-Linking of Chitosan Hydrogel Beads for Enhanced Metal Adsorption Performance. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 6692-6700.	3.7	167
38	Adsorption mechanism of palladium by redox within condensed-tannin gel. <i>Water Research</i> , 2005, 39, 1324-1330.	11.3	129
39	Study of the Sorption and Separation Abilities of Commercial Solid-Phase Extraction (SPE) Cartridge Oasis MAX Towards Au(III), Pd(II), Pt(IV), and Rh(III). <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 931-942.	2.0	23
40	Palladium Recovery from Dilute Effluents using Biopolymer-Immobilized Extractant. <i>Separation Science and Technology</i> , 2006, 41, 2533-2553.	2.5	22
41	Adsorption properties and mechanism of cross-linked carboxymethyl-chitosan resin with Zn(II) as template ion. <i>Reactive and Functional Polymers</i> , 2006, 66, 819-826.	4.1	75
42	Adsorption properties of crosslinked carboxymethyl-chitosan resin with Pb(II) as template ions. <i>Journal of Hazardous Materials</i> , 2006, 136, 930-937.	12.4	153
43	Recovery of platinum(IV) and palladium(II) by bayberry tannin immobilized collagen fiber membrane from water solution. <i>Journal of Membrane Science</i> , 2006, 278, 373-380.	8.2	120
44	Catalytic synthesis of 1-arylethylphosphonates by the hydrogenation of unsaturated precursors in the presence of chitosan-based palladium catalysts. <i>Russian Journal of Organic Chemistry</i> , 2006, 42, 990-995.	0.8	5
45	Recovery of gold(III) ions by a chitosancoated magnetic nano-adsorbent. <i>Gold Bulletin</i> , 2006, 39, 98-102.	2.7	96
46	Palladium(II) removal from chloride and chloride-nitrate solutions by chelating ion-exchangers containing N-donor atoms. <i>Minerals Engineering</i> , 2006, 19, 1341-1347.	4.3	39
47	Oxidation of hydroquinone to p-benzoquinone catalyzed by Cu(II) supported on chitosan flakes. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3034-3043.	2.6	24
48	Functionalized chitosan/NIPAM (HEMA) hybrid polymer networks as inserts for ocular drug delivery: Synthesis, in vitro assessment, and in vivo evaluation. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 726-735.	4.0	50
49	Trends in Sorption Preconcentration Combined with Noble Metal Determination. <i>Analytical Sciences</i> , 2007, 23, 1031-1039.	1.6	49
50	An ion-imprinted silica-supported organic-inorganic hybrid sorbent prepared by a surface imprinting technique combined with a polysaccharide incorporated sol-gel process for selective separation of cadmium(II) from aqueous solution. <i>Talanta</i> , 2007, 71, 1487-1493.	5.5	83
51	Application of Chitosan for the Removal of Metals From Wastewaters by Adsorption-Mechanisms and Models Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2007, 37, 41-127.	12.8	646
52	Preparation of crosslinked chitosan/poly(vinyl alcohol) blend beads with high mechanical strength. <i>Green Chemistry</i> , 2007, 9, 894.	9.0	38
53	Palladium Recovery by Reactive Precipitation using a Cyanex 301-Based Stable Emulsion. <i>Separation Science and Technology</i> , 2007, 42, 3517-3536.	2.5	18
54	Adsorption of Pb ²⁺ on Chitosan Cross-Linked with Triethylene-Tetramine. <i>Chemical Engineering and Technology</i> , 2007, 30, 955-961.	1.5	21

#	ARTICLE	IF	CITATIONS
55	Removal of Hg ²⁺ from aqueous solution using alginate gel containing chitosan. Journal of Applied Polymer Science, 2007, 104, 2896-2905.	2.6	32
56	Oxidation of azo textile soluble dyes with hydrogen peroxide in the presence of Cu(II)-chitosan heterogeneous catalysts. Dyes and Pigments, 2007, 73, 19-24.	3.7	41
57	Biosorption of precious metals. Biotechnology Advances, 2007, 25, 264-271.	11.7	293
58	Sorption preconcentration in combined methods for the determination of noble metals. Journal of Analytical Chemistry, 2007, 62, 607-622.	0.9	39
59	Coagulation and flocculation of dye-containing solutions using a biopolymer (Chitosan). Reactive and Functional Polymers, 2007, 67, 33-42.	4.1	261
60	Preparation and characterization of poly(ethylene glycol) crosslinked chitosan films. Journal of Applied Polymer Science, 2008, 107, 3823-3830.	2.6	78
61	Immobilization of Cyphos IL-101 in biopolymer capsules for the synthesis of Pd sorbents. Reactive and Functional Polymers, 2008, 68, 1159-1169.	4.1	67
62	Pt recovery using Cyphos IL-101 immobilized in biopolymer capsules. Separation and Purification Technology, 2008, 62, 470-479.	7.9	80
63	Comparative adsorption of Cu(II), Zn(II), and Pb(II) ions in aqueous solution on the crosslinked chitosan with epichlorohydrin. Journal of Hazardous Materials, 2008, 154, 184-191.	12.4	426
64	Studies of removal of palladium(II) ions from chloride solutions on weakly and strongly basic anion exchangers. Journal of Hazardous Materials, 2008, 159, 280-286.	12.4	50
65	The removal of sulphonated azo-dyes by coagulation with chitosan. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 330, 219-226.	4.7	119
66	Adsorption of gold(III), platinum(IV) and palladium(II) onto glycine modified crosslinked chitosan resin. Bioresource Technology, 2008, 99, 3801-3809.	9.6	439
67	Palladium and platinum binding on an imidazol containing resin. Hydrometallurgy, 2008, 92, 1-10.	4.3	53
68	Hydrogenation of nitrotoluene using palladium supported on chitosan hollow fiber: Catalyst characterization and influence of operative parameters studied by experimental design methodology. International Journal of Biological Macromolecules, 2008, 43, 69-78.	7.5	27
69	Pre-concentration and separation of heavy metal ions by chemically modified waste paper gel. Chemosphere, 2008, 72, 182-188.	8.2	12
70	Dimethylamine-Modified Waste Paper for the Recovery of Precious Metals. Environmental Science & Technology, 2008, 42, 5486-5491.	10.0	80
71	Biosorption of chitin and chitosan. Materials Science and Technology, 2008, 24, 1088-1099.	1.6	33
72	Development of Chelating Resins and Their Ability of Collection and Separation for Metal Ions. Bunseki Kagaku, 2008, 57, 291-311.	0.2	20

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73	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.	0.3	5
74	Removal of Hg ²⁺ from aqueous solution using a novel composite carbon adsorbent. <i>Journal of Applied Polymer Science</i> , 2009, 112, 2445-2454.	2.6	15
75	Synthesis of ion-imprinting chitosan/PVA crosslinked membrane for selective removal of Ag(I). <i>Journal of Applied Polymer Science</i> , 2009, 114, 2608-2615.	2.6	72
76	Application of commercially available anion exchange resins for preconcentration of palladium(II) complexes from chloride-nitrate solutions. <i>Chemical Engineering Journal</i> , 2009, 150, 96-103.	12.7	10
77	Adsorption of platinum(IV) and palladium(II) from aqueous solution by thiourea-modified chitosan microspheres. <i>Journal of Hazardous Materials</i> , 2009, 172, 439-446.	12.4	237
78	Study on metal complexes of chelating resins bearing iminodiacetate groups. <i>European Polymer Journal</i> , 2009, 45, 2119-2130.	5.4	42
79	Anodic stripping voltammetric determination of copper(II) using a functionalized carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 260-266.	7.8	160
80	Removal of an anionic dye (Acid Blue 92) by coagulation-flocculation using chitosan. <i>Journal of Environmental Management</i> , 2009, 90, 2979-2986.	7.8	217
81	Characteristics of equilibrium, kinetics studies for adsorption of Hg(II), Cu(II), and Ni(II) ions by thiourea-modified magnetic chitosan microspheres. <i>Journal of Hazardous Materials</i> , 2009, 161, 995-1002.	12.4	452
82	The chemically crosslinked metal-complexed chitosans for comparative adsorptions of Cu(II), Zn(II), Ni(II) and Pb(II) ions in aqueous medium. <i>Journal of Hazardous Materials</i> , 2009, 163, 1068-1075.	12.4	199
83	Mercury sorption on a thiocarbamoyl derivative of chitosan. <i>Journal of Hazardous Materials</i> , 2009, 165, 415-426.	12.4	61
84	Kinetics, thermodynamics and surface heterogeneity assessment of uranium(VI) adsorption onto cation exchange resin derived from a lignocellulosic residue. <i>Applied Surface Science</i> , 2009, 255, 4983-4991.	6.1	57
85	Preparation and Application of a Novel Functionalized Coconut Coir Pith as a Recyclable Adsorbent for Phosphate Removal. <i>Separation Science and Technology</i> , 2009, 44, 2774-2796.	2.5	16
86	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.	2.4	138
87	Studies on adsorption behavior of Pb(II) onto a thiourea-modified chitosan resin with Pb(II) as template. <i>Carbohydrate Polymers</i> , 2010, 81, 305-310.	10.2	47
88	Palladium and platinum sorption using chitosan-based hydrogels. <i>Adsorption</i> , 2010, 16, 127-139.	3.0	25
89	Microwave preparation and adsorption properties of EDTA-modified cross-linked chitosan. <i>Journal of Applied Polymer Science</i> , 2010, 115, 514-519.	2.6	40
90	Palladium and platinum sorption on a thiocarbamoyl-derivative of chitosan. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3318-3330.	2.6	10

#	ARTICLE	IF	CITATIONS
91	Adsorption of Cd(II), Pb(II), and Ag(I) in aqueous solution on hollow chitosan microspheres. Journal of Applied Polymer Science, 2010, 118, 733-739.	2.6	9
92	Preparation and characterization of magnetic chelating resin based on chitosan for adsorption of Cu(II), Co(II), and Ni(II) ions. Reactive and Functional Polymers, 2010, 70, 257-266.	4.1	108
93	Adsorption of Cu(II), Co(II), and Ni(II) ions by modified magnetic chitosan chelating resin. Journal of Hazardous Materials, 2010, 177, 962-970.	12.4	308
94	Recovery of Pd(II) from hydrochloric solution using polyallylamine hydrochloride-modified Escherichia coli biomass. Journal of Hazardous Materials, 2010, 181, 794-800.	12.4	104
95	Adsorption of platinum(IV) and palladium(II) from aqueous solution by magnetic cross-linking chitosan nanoparticles modified with ethylenediamine. Journal of Hazardous Materials, 2010, 182, 518-524.	12.4	184
96	Thermal degradation kinetics of chitosan-cobalt complex as studied by thermogravimetric analysis. Carbohydrate Polymers, 2010, 82, 1284-1289.	10.2	65
97	Preparation of Porous Chitosan Microsphere Absorbent and Research on Its Absorption Ability for Cu ²⁺ and Zn ²⁺ . International Journal of Chemistry, 2010, 2, .	0.3	7
98	From Natural Polysaccharides to Materials for Catalysis, Adsorption, and Remediation. Topics in Current Chemistry, 2010, 294, 165-197.	4.0	50
99	Synthesis and evaluation of a thiourea-modified chitosan derivative applied for adsorption of Hg(II) from synthetic wastewater. International Journal of Biological Macromolecules, 2010, 46, 524-528.	7.5	39
101	Ion-imprinted polymers supported by SiO ₂ with a chitosan incorporated sol-gel process for selective separation of Pb(II) and Cu(II) system. , 2011, , .		0
102	Preparation of Silica-Supported Biosorbents for Copper(II) Removal. Journal of Dispersion Science and Technology, 2011, 32, 1735-1741.	2.4	9
103	Enzymatic synthesis of catechol and hydroxyl-carboxylic acid functionalized chitosan microspheres for iron overload therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 79, 294-303.	4.3	36
104	Adsorption of Cr(VI) and As(V) ions by modified magnetic chitosan chelating resin. International Journal of Biological Macromolecules, 2011, 49, 513-522.	7.5	154
105	Improvement of metal adsorption onto chitosan/Sargassum sp. composite sorbent by an innovative ion-imprint technology. Water Research, 2011, 45, 145-154.	11.3	152
106	Preparation of conductive wool fabrics and adsorption behaviour of Pd (II) ions on chitosan in the pre-treatment. Synthetic Metals, 2011, 161, 124-131.	3.9	18
107	Determination of platinum and palladium in road dust after their separation on immobilized fungus by electrothermal atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 522-528.	2.9	39
108	Adsorption properties of Cd(II)-imprinted chitosan resin. Journal of Materials Science, 2011, 46, 1535-1541.	3.7	49
109	Precious metal recovery by selective adsorption using biosorbents. Journal of Hazardous Materials, 2011, 186, 902-910.	12.4	148

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110	Utilization of PEI-modified <i>Corynebacterium glutamicum</i> biomass for the recovery of Pd(II) in hydrochloric solution. <i>Bioresource Technology</i> , 2011, 102, 3888-3893.	9.6	104
111	The adsorption of sulphonated azo dyes methyl orange and xlenol orange by coagulation on hollow chitosan microsphere. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2065-2071.	2.6	14
112	Modeling of small-molecule release from crosslinked hydrogel microspheres: Effect of crosslinking and enzymatic degradation of hydrogel matrix. <i>International Journal of Pharmaceutics</i> , 2011, 403, 90-95.	5.2	13
113	In situ cross-linked chitosan Cu(I) or Pd(II) complexes as a versatile, eco-friendly recyclable solid catalyst. <i>Journal of Molecular Catalysis A</i> , 2011, 334, 60-64.	4.8	78
114	Adsorption of chromium (VI) by ethylenediamine-modified cross-linked magnetic chitosan resin: Isotherms, kinetics and thermodynamics. <i>Journal of Hazardous Materials</i> , 2011, 185, 306-314.	12.4	730
115	Polymeric degradation of water soluble chitosan/HPMC films using WAXS data. <i>Materials Research Innovations</i> , 2012, 16, 126-129.	2.3	4
116	Synthesis and Characterization of Gallic Acid Resin and Its Interaction with Palladium(II), Rhodium(III) Chloro Complexes. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6052-6063.	3.7	35
117	Microwave preparation and properties of $\text{O}^{\text{2-}}$ -crosslinked maleic acyl chitosan adsorbent for $\text{Pb}^{\text{2+}}$ and $\text{Cu}^{\text{2+}}$. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2716-2723.	2.6	43
118	Evaluation of activated carbon and bio-polymer modified activated carbon performance for palladium and platinum removal. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 696-703.	5.3	77
119	Adsorption of $\text{Hg}^{\text{2+}}$, $\text{Cu}^{\text{2+}}$ and $\text{Zn}^{\text{2+}}$ ions from aqueous solution using formaldehyde cross-linked modified chitosan-thioglyceraldehyde Schiff's base. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 773-781.	7.5	147
120	The use of the chelating resin of a new generation Lewatit MonoPlus TP-220 with the bis-picolyamine functional groups in the removal of selected metal ions from acidic solutions. <i>Chemical Engineering Journal</i> , 2012, 197, 493-508.	12.7	84
121	Extraction of hexachloroplatinate from hydrochloric acid solutions with phosphorylated hexane-1,6-diyl polymers. <i>Reactive and Functional Polymers</i> , 2012, 72, 878-888.	4.1	1
122	Preparation and Kinetic Modeling of Cross-Linked Chitosan Microspheres Immobilized Zn(II) for Urea Adsorption. <i>Analytical Letters</i> , 2012, 45, 1632-1644.	1.8	23
123	Adsorption Behavior of Fe(II) and Fe(III) Ions on Thiourea Cross-Linked Chitosan with Fe(III) as Template. <i>Molecules</i> , 2012, 17, 4388-4399.	3.8	33
124	Solid-phase extraction in the determination of gold, palladium, and platinum. <i>Journal of Separation Science</i> , 2012, 35, 1249-1265.	2.5	72
125	Adsorption characteristics of chitosan modified by chelating agents of a new generation. <i>Chemical Engineering Journal</i> , 2012, 179, 33-43.	12.7	55
126	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.	12.7	79
127	Adsorption of Cu(II), Cd(II) and Ni(II) ions by cross-linked magnetic chitosan-2-aminopyridine glyoxal Schiff's base. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 250-258.	5.0	121

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128	Recovery of gold as a type of porous fiber by using biosorption followed by incineration. <i>Bioresource Technology</i> , 2012, 104, 208-214.	9.6	50
129	Cu ²⁺ removal from aqueous solution by modified chitosan hydrogels. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1010-1016.	3.2	27
130	Crosslinked poly(vinyl alcohol)/carboxymethyl chitosan hydrogels for removal of metal ions and dyestuff from aqueous solutions. <i>Journal of Applied Polymer Science</i> , 2012, 123, 3459-3469.	2.6	36
131	Adsorption of palladium and platinum from aqueous solutions by chitosan and activated carbon coated with chitosan. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 384-395.	1.5	50
132	Mechanical, swelling and adsorptive properties of dry/wet spun chitosan hollow fibers crosslinked with glutaraldehyde. <i>Reactive and Functional Polymers</i> , 2013, 73, 218-223.	4.1	43
133	Chitosan/maghemite composite: A magsorbent for the adsorption of methyl orange. <i>Journal of Colloid and Interface Science</i> , 2013, 410, 52-58.	9.4	115
134	Synthesis and characterization of valonea tannin resin and its interaction with palladium (II), rhodium (III) chloro complexes. <i>Chemical Engineering Journal</i> , 2013, 221, 146-158.	12.7	64
135	Review: Preparation and Application of Magnetic Chitosan Derivatives in Separation Processes. <i>Analytical Letters</i> , 2013, 46, 2635-2656.	1.8	28
136	The Advances in Research of Complexes of Chitosan and its Derivatives. <i>Applied Mechanics and Materials</i> , 2013, 456, 461-466.	0.2	0
137	Adsorption of cadmium (II) and copper (II) ions from aqueous solution using chitosan composite. <i>Polymer Composites</i> , 2013, 34, 233-240.	4.6	27
138	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.	12.8	42
139	Evaluation of ion imprinted polymers for the solid phase extraction and electrothermal atomic absorption spectrometric determination of palladium in environmental samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 483-498.	3.3	11
140	Equilibrium and dynamic studies for adsorption of boron on calcium alginate gel beads using principal component analysis (PCA) and partial least squares (PLS). <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013, 44, 410-415.	0.9	15
141	Sorption of boron on calcium alginate gel beads. <i>Reactive and Functional Polymers</i> , 2013, 73, 653-657.	4.1	29
142	Preparation of immunomagnetic nanoparticles for the separation and enrichment of <i>Alicyclobacillus</i> spp. in apple juice. <i>Food Research International</i> , 2013, 54, 302-310.	6.2	24
143	Adsorption of Cr (VI) by Cross-Linked Magnetic Hydroxamated Chitosan. <i>Advanced Materials Research</i> , 0, 842, 175-179.	0.3	0
144	Lead Biosorption Using a Dairy Sludge—Thermodynamic Study and Competition Effects. <i>Water Environment Research</i> , 2014, 86, 28-35.	2.7	1
145	Industrial Applications of Marine Carbohydrates. <i>Advances in Food and Nutrition Research</i> , 2014, 73, 145-181.	3.0	16

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146	Synthesis and Characterization of Dimethylthiocarbamoyl-Modified Thiocalix[4]arenes for Selective Pd(II)-Ion Extraction. Industrial & Engineering Chemistry Research, 2014, 53, 2559-2565.	3.7	29
147	Biosorbents for recovery of precious metals. Bioresource Technology, 2014, 160, 203-212.	9.6	197
148	Adsorption of Silver and Gold Ions from their Aqueous Solutions using a Magnetic Chelating Resin Derived from a Blend of Bisthiourea/Thiourea/Glutaraldehyde. Separation Science and Technology, 2014, 49, 2039-2048.	2.5	10
149	Adsorption performance of functionalized chitosan-silica hybrid materials toward rare earths. Journal of Materials Chemistry A, 2014, 2, 19415-19426.	10.3	151
150	Comparative studies on the removal of heavy metals ions onto cross linked chitosan-g-acrylonitrile copolymer. International Journal of Biological Macromolecules, 2014, 67, 180-188.	7.5	44
151	The adsorptive extraction of oxidized sulfur-containing compounds from fuels by using molecularly imprinted chitosan materials. Reactive and Functional Polymers, 2014, 81, 61-76.	4.1	45
152	Preparation of Fully Deacetylated Chitosan for Adsorption of Hg(II) Ion from Aqueous Solution. Chemical Sciences Journal, 2015, 6, .	0.1	4
153	Solid-Phase Extraction of Pt(IV) with Dialkyl-(hexane-1,6-diyl) Phosphate Modified Merrifield Resins from Aqueous Chloride Media in Column Operations. Separation Science and Technology, 2015, 50, 191-206.	2.5	3
154	Proline-functionalized chitosan-palladium complex, a novel nanocatalyst for C-C bond formation in water. RSC Advances, 2015, 5, 24742-24748.	3.6	45
155	Nonsolvent/solvent-induced phase separation to multi-porous sulfonated polystyrene/chitosan/silver particles and their application in adsorbing chromium ion(III) and reduction of methylene blue. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 481, 423-430.	4.7	19
156	A facile, selective, high recovery system for precious metals based on complexation between melamine and cyanuric acid. RSC Advances, 2015, 5, 30133-30139.	3.6	11
157	Reduction of palladium onto pyrogallol-derived nano-resin and its mechanism. Chemical Engineering Journal, 2015, 275, 322-330.	12.7	16
158	Removal of Cd(II) from aqueous solution using cross-linked chitosan-zeolite composite. Desalination and Water Treatment, 2015, 54, 2546-2556.	1.0	19
159	Enhancement of adsorption ability of calcium alginate gel beads towards Pd(II) ion. A kinetic and equilibrium study on hybrid Laponite and Montmorillonite-alginate gel beads. Applied Clay Science, 2015, 118, 162-170.	5.2	45
160	Extraction Studies of Some Hazardous Metal Ions Using Magnetic Peptide Resins. Journal of Dispersion Science and Technology, 2015, 36, 411-422.	2.4	20
161	Selective recovery of palladium using an innovative functional polymer containing phosphine oxide. Chemical Engineering Journal, 2015, 264, 772-779.	12.7	30
162	Rice straw modified by click reaction for selective extraction of noble metal ions. Bioresource Technology, 2015, 177, 182-187.	9.6	20
163	Uranium extraction using magnetic nano-based particles of diethylenetriamine-functionalized chitosan: Equilibrium and kinetic studies. Chemical Engineering Journal, 2015, 262, 198-209.	12.7	111

#	ARTICLE	IF	CITATIONS
164	Comprehending the interaction between chitosan and ionic liquid for the adsorption of palladium. International Journal of Biological Macromolecules, 2015, 72, 633-639.	7.5	61
165	Chitosan and Its Derivatives as Highly Efficient Polymer Ligands. Molecules, 2016, 21, 330.	3.8	101
166	Reusable polyethylenimine-coated polysulfone/bacterial biomass composite fiber biosorbent for recovery of Pd(II) from acidic solutions. Chemical Engineering Journal, 2016, 302, 545-551.	12.7	45
167	An ionic liquid-mesoporous silica blend as a novel adsorbent for the adsorption and recovery of palladium ions, and its applications in continuous flow study and as an industrial catalyst. RSC Advances, 2016, 6, 26668-26678.	3.6	35
168	Solid phase sensitive palladium(II) ions detection and recovery using ligand based efficient conjugate nanomaterials. Chemical Engineering Journal, 2016, 300, 264-272.	12.7	315
170	Fabrication of a novel magnetic nanocomposite to remove Cu (II) ions from contaminated water. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 1501-1503.	1.6	0
171	Evaluation of perchlorate removal from aqueous solution by cross-linked magnetic chitosan/poly (vinyl alcohol) particles. Journal of the Taiwan Institute of Chemical Engineers, 2016, 65, 295-303.	5.3	23
172	Recovery of Au(III), Pt(IV), and Pd(II) Using Pyridylethyl-Containing Polymers: Chitosan Derivatives vs Synthetic Polymers. Industrial & Engineering Chemistry Research, 2016, 55, 10377-10385.	3.7	21
173	A Facile and High-recovery System for Palladium(II) Ion Based on Complexation between Trithiocyanuric Acid and Melamine. Chemistry Letters, 2016, 45, 1165-1167.	1.3	4
174	Synergistic influence of graphene oxide and tetraoctylammonium bromide (frozen ionic liquid) for the enhanced adsorption and recovery of palladium from an industrial catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4287-4298.	6.7	11
175	Mechanism of the palladium adsorption onto the pyrogallol-derived nano-resin. International Journal of Materials and Product Technology, 2016, 52, 347.	0.2	1
176	A highly efficient supramolecular adsorbent for precious metal: adsorption behavior of Pd ^{II} by melamine cyanurate. RSC Advances, 2016, 6, 103304-103310.	3.6	8
177	Effective and selective recovery of gold and palladium ions from metal wastewater using a sulfothermophilic red alga, Galdieria sulphuraria. Bioresource Technology, 2016, 211, 759-764.	9.6	81
178	Synthesis and Characterization of a Novel Series of Cross-Linked (Phenol, Formaldehyde, Alkyldiamine) Terpolymers for the Removal of Toxic Metal Ions from Wastewater. Arabian Journal for Science and Engineering, 2016, 41, 119-133.	1.1	16
179	Preparation and sorption behavior of DEAE-cellulose-thiourea-glutaraldehyde sorbent for Pt(IV) and Pd(II) from leaching solutions. Desalination and Water Treatment, 2016, 57, 6582-6593.	1.0	13
180	Adsorption recovery of Pd(II) from aqueous solutions by persimmon residual based bio-sorbent. Hydrometallurgy, 2016, 165, 323-328.	4.3	29
181	Carbon-based adsorber resin Lewatit AF 5 applicability in metal ion recovery. Microporous and Mesoporous Materials, 2016, 224, 400-414.	4.4	21
182	Sustained release of L-lipoic acid from chitosan microbeads synthesized by inverse emulsion method. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 106-112.	5.3	17

#	ARTICLE	IF	CITATIONS
183	Removal of toxic Cr(VI) from water by a novel magnetic chitosan/glyoxal/PVA hydrogel film. Desalination and Water Treatment, 2016, 57, 14266-14279.	1.0	22
184	Sorption of Pd(II) ion by calcium alginate gel beads at different chloride concentrations and pH. A kinetic and equilibrium study. Arabian Journal of Chemistry, 2016, 9, 656-667.	4.9	27
185	Novel Magnetic Chitosan Hydrogel Film, Cross-Linked with Glyoxal as an Efficient Adsorbent for Removal of Toxic Cr(VI) from Water. Arabian Journal for Science and Engineering, 2017, 42, 115-124.	3.0	35
186	Structural, morphological and magnetic characterization of metal-chitosan/poly (vinyl amine) complexes. Journal of Polymer Research, 2017, 24, 1.	2.4	5
187	Aspartic acid grafting on cellulose and chitosan for enhanced Nd(III) sorption. Reactive and Functional Polymers, 2017, 113, 13-22.	4.1	32
188	Equilibrium, kinetics and mechanism of Au ³⁺ , Pd ²⁺ and Ag ⁺ ions adsorption from aqueous solutions by graphene oxide functionalized persimmon tannin. Materials Science and Engineering C, 2017, 79, 227-236.	7.3	71
189	Progress and Prospects of Polysaccharide Composites as Adsorbents for Water and Wastewater Treatment. Springer Briefs in Molecular Science, 2017, , 65-90.	0.1	4
190	Expeditious preparation of β -cyclodextrin grafted chitosan using microwave radiation for the enhanced palladium adsorption from aqueous waste and an industrial catalyst. Journal of Environmental Chemical Engineering, 2017, 5, 1927-1935.	6.7	28
191	Pd(II) and Pt(IV) sorption using alginate and algal-based beads. Chemical Engineering Journal, 2017, 313, 567-579.	12.7	73
192	Preparation and characterization of a mesoporous polycrown impregnated silica and its adsorption for palladium from highly acid medium. Journal of Porous Materials, 2017, 24, 1037-1045.	2.6	12
194	Investigation on Pd (II) removal and recovery characteristics of chitosan from electroless plating solutions. Journal of Water Process Engineering, 2017, 19, 8-17.	5.6	13
195	Pd(II) ion adsorption onto emulsion gel beads in a fixed bed. Separation Science and Technology, 2017, 52, 2415-2420.	2.5	3
196	Effective Adsorption of Precious Metal Palladium over Polyethyleneimine-Functionalized Alumina Nanopowder and Its Reusability as a Catalyst for Energy and Environmental Applications. ACS Omega, 2017, 2, 4494-4504.	3.5	28
197	A perspective on diverse adsorbent materials to recover precious palladium and the way forward. RSC Advances, 2017, 7, 52133-52142.	3.6	57
198	Sorption of Pb(II), Cu(II), Fe(II) and Cr(VI) metal ions onto cross-linked graft copolymers of chitosan with binary vinyl monomer mixtures. Reactive and Functional Polymers, 2017, 121, 32-44.	4.1	21
199	Polyamine chitosan adsorbent for the enhanced adsorption of anionic dyes from water. Journal of Dispersion Science and Technology, 2017, 38, 1832-1841.	2.4	12
200	Pd(II) adsorption characteristics of glutaraldehyde cross-linked chitosan copolymer resin. International Journal of Biological Macromolecules, 2017, 94, 72-84.	7.5	112
201	Characterization of Pd(II) biosorption in aqueous solution by <i>Shewanella oneidensis</i> MR-1. Journal of Molecular Liquids, 2018, 255, 333-340.	4.9	43

#	ARTICLE	IF	CITATIONS
202	Rapid Determination of Trace Palladium in Active Pharmaceutical Ingredients by Magnetic Solid-Phase Extraction and Flame Atomic Absorption Spectrometry. Journal of Applied Spectroscopy, 2018, 84, 1084-1088.	0.7	9
203	Biopolymer Aerogele und Schäume: Chemie, Eigenschaften und Anwendungen. Angewandte Chemie, 2018, 130, 7704-7733.	2.0	21
204	Biopolymer Aerogels and Foams: Chemistry, Properties, and Applications. Angewandte Chemie - International Edition, 2018, 57, 7580-7608.	13.8	470
205	Statistical optimization and operational stability of Rhizomucor miehei lipase supported on magnetic chitosan/chitin nanoparticles for synthesis of pentyl valerate. International Journal of Biological Macromolecules, 2018, 115, 680-695.	7.5	26
206	Synthesis and efficacy of PPy/CS/GO nanocomposites for adsorption of ponceau 4R dye. Polymer, 2018, 146, 291-303.	3.8	60
207	Enzymatic gelation to prepare chitosan gels: Study of gelation kinetics and identification of limiting parameters for controlled gel morphology. International Journal of Biological Macromolecules, 2018, 107, 1175-1183.	7.5	10
208	Chitosan for wastewater treatment. Polymer International, 2018, 67, 7-14.	3.1	145
209	Palladium recovery from monolithic ceramic capacitors by leaching, solvent extraction and reduction. Journal of Material Cycles and Waste Management, 2018, 20, 1199-1206.	3.0	41
210	A novel ultra-low energy reverse osmosis membrane modified by chitosan with glutaraldehyde crosslinking. Journal of Applied Polymer Science, 2018, 135, 45971.	2.6	23
211	New chitosan-imine derivatives: from green chemistry to removal of heavy metals from water. Revista Facultad De Ingenier�a, 2018, , 34-43.	0.5	8
212	Chitosan and Xyloglucan-Based Hydrogels: An Overview of Synthetic and Functional Utility. , 0, , .		2
213	Role of protonation and functional groups in Pd(II) recovery and reuse characteristics of commercial anion exchange resin-synthetic electroless plating solution systems. Journal of Water Process Engineering, 2018, 22, 227-238.	5.6	18
214	Adsorption of platinum ion from aged aqueous solution: application and comparative study between purified MWCNTs and triphenylphosphine MWCNTs. Environmental Science and Pollution Research, 2018, 25, 20032-20047.	5.3	2
215	Microstructure and characteristic properties of gelatin/chitosan scaffold prepared by the freeze-gelation method. Materials Research Express, 2019, 6, 115404.	1.6	8
216	Impact of Counter Ions of Cationic Monomers on the Production and Characteristics of Chitosan-Based Hydrogel. ACS Omega, 2019, 4, 15087-15096.	3.5	11
217	Boron Removal from Aqueous Solutions by Using a Novel Alginate-Based Sorbent: Comparison with Al ₂ O ₃ Particles. Polymers, 2019, 11, 1509.	4.5	31
218	Dialdehyde carboxymethyl cellulose cross-linked chitosan for the recovery of palladium and platinum from aqueous solution. Reactive and Functional Polymers, 2019, 141, 145-154.	4.1	47
219	A comparative study of magnetic chitosan (Chi@Fe ₃ O ₄) and graphene oxide modified magnetic chitosan (Chi@Fe ₃ O ₄ GO) nanocomposites for efficient removal of Cr(VI) from water. International Journal of Biological Macromolecules, 2019, 137, 948-959.	7.5	120

#	ARTICLE	IF	CITATIONS
220	Regeneration of chitosan-based adsorbents used in heavy metal adsorption: A review. Separation and Purification Technology, 2019, 224, 373-387.	7.9	314
221	Modified chitosan gel incorporated with magnetic nanoparticle for removal of Cu(II) and Cr(VI) from aqueous solution. International Journal of Biological Macromolecules, 2019, 133, 1051-1062.	7.5	62
222	Functionalized chitosan adsorbents allow recovery of palladium and platinum from acidic aqueous solutions. Green Chemistry, 2019, 21, 2295-2306.	9.0	81
223	A chitosan-thiomer polymer for highly efficacious adsorption of mercury. Carbohydrate Polymers, 2019, 207, 663-674.	10.2	36
224	Evaluation of torrefied poplar-biomass as a low-cost sorbent for lead and terbium removal from aqueous solutions and energy co-generation. Chemical Engineering Journal, 2019, 361, 839-852.	12.7	40
225	Role of EDTA on the Pd(II) adsorption characteristics of chitosan cross-linked 3-amino-1,2,4-triazole-5-thiol derivative from synthetic electroless plating solutions. International Journal of Biological Macromolecules, 2019, 127, 320-329.	7.5	13
226	Methods for correction of selectivity of N-(2-sulfoethyl)chitosan-based materials towards platinum(IV) and palladium(II) ions. Separation Science and Technology, 2019, 54, 42-50.	2.5	7
227	Modified biochar for phosphate adsorption in environmentally relevant conditions. Chemical Engineering Journal, 2020, 380, 122375.	12.7	115
228	Advances in chitosan-based hydrogels: Evolution from covalently crosslinked systems to ionotropically crosslinked superabsorbents. Reactive and Functional Polymers, 2020, 149, 104517.	4.1	65
229	Anionic dye uptake via composite using chitosan-polyacrylamide hydrogel as matrix containing TiO ₂ nanoparticles; comprehensive adsorption studies. International Journal of Biological Macromolecules, 2020, 162, 150-162.	7.5	61
232	Emerging Eco-friendly Green Technologies for Wastewater Treatment. Microorganisms for Sustainability, 2020, , .	0.7	9
233	Separation and purification of platinum group metals from aqueous solution: Recent developments and industrial applications. Resources, Conservation and Recycling, 2021, 167, 105417.	10.8	50
234	Thiomers of Chitosan and Cellulose: Effective Biosorbents for Detection, Removal and Recovery of Metal Ions from Aqueous Medium. Chemical Record, 2021, 21, 1876-1896.	5.8	38
235	Difference in toxicity of Pd (II) and mechanism of action before and after reduction by Bacillus wiedmannii MSM. Environmental Science and Pollution Research, 2022, 29, 1824-1835.	5.3	7
236	Electrochemical recovery of low concentration of palladium from palladium(II) chloride of electroplating wastewater. Journal of Chemical Technology and Biotechnology, 2021, 96, 3216.	3.2	5
237	Research progress of adsorption and removal of heavy metals by chitosan and its derivatives: A review. Chemosphere, 2021, 279, 130927.	8.2	122
238	Porous Polyisothiocyanurates for Selective Palladium Recovery and Heterogeneous Catalysis. SSRN Electronic Journal, 0, , .	0.4	0
239	Coordination Polymers and Polymer Nanofibers for Effective Adsorptive Desulfurization. , 2021, , 730-783.		0

#	ARTICLE	IF	CITATIONS
240	Influence of the Speciation of metal ions on their sorption on Chitosan. , 2004, , 225-247.		1
241	Recovery and reduction of Au(III) from mixed metal solution by thiourea-resorcinol-formaldehyde microspheres. Journal of Hazardous Materials, 2020, 397, 122812.	12.4	50
242	Immobilization of Escherichia coli Mutant Strain for Efficient Production of Bioethanol from Crude Glycerol. Journal of Applied Sciences, 2015, 15, 415-430.	0.3	4
243	Molecularly Imprinted Polymer Nanofibers for Adsorptive Desulfurization. Advances in Chemical and Materials Engineering Book Series, 2016, , 281-336.	0.3	1
244	Chitin and Its Derivatives in the Remediation of Industrial Effluent. , 2017, , 523-543.		0
245	Coordination Polymers and Polymer Nanofibers for Effective Adsorptive Desulfurization. Advances in Chemical and Materials Engineering Book Series, 2020, , 168-234.	0.3	3
246	Biopolymers and Their Application in Wastewater Treatment. Microorganisms for Sustainability, 2020, , 245-266.	0.7	8
247	Bio-aerogels: Fabrication, properties and food applications. Critical Reviews in Food Science and Nutrition, 2023, 63, 6687-6709.	10.3	11
248	Fabrication of chitosan composite nanofibers for the recovery of precious palladium cations from aqueous solution. Cellulose, 2022, 29, 5803-5816.	4.9	3
249	Porous polyisothiocyanurates for selective palladium recovery and heterogeneous catalysis. Chem, 2022, 8, 2043-2059.	11.7	28
250	Effect of cetrimonium bromide (CTAB) surfactant on Pd(II) removal efficiency from electroless plating solutions. Materials Today: Proceedings, 2022, , .	1.8	2
251	A review on adsorption mediated phosphate removal and recovery by biomatrices. Journal of the Indian Chemical Society, 2022, 99, 100682.	2.8	3
252	Sorption Selectivity of Palladium(II) by Poly(N-2-Sulfoethylallylamine) under Static and Dynamic Conditions. Russian Journal of Applied Chemistry, 2022, 95, 451-459.	0.5	1
253	Selective and reversible surface complexation of aqueous palladium(II) by polycarboxylate (pyromellitic acid) functionalized hybrid aerogel sorbent. Applied Surface Science, 2023, 613, 156026.	6.1	2
254	Synthesis Methods of Superabsorbent Polymers and Factors Affecting Their Preparation. , 2023, , 19-39.		0
255	A study in analytical chemistry of adsorption of heavy metal ions using chitosan/graphene nanocomposites. Case Studies in Chemical and Environmental Engineering, 2023, 8, 100426.	6.1	20
256	Recovery of precious metals from processed wastewater: conventional techniques nexus advanced and pragmatic alternatives. , 2023, 13, 134-161.		3
257	Tannin complexation with metal ions and its implication on human health, environment and industry: An overview. International Journal of Biological Macromolecules, 2023, 253, 127485.	7.5	2

#	ARTICLE	IF	CITATIONS
258	Synthesis of chitosan based new material for recovery of Pt (IV). , 2023, 4, 16-26.		0
259	Rational design and fabricate of protonated crosslinked chitosan adsorbent for boosting the removal of nitrite in water. Chemical Engineering Journal, 2024, 484, 149241.	12.7	0