Dorota Kolodynska

List of Publications by Year in Descending Order

120 papers	2,903 citations	25 h-index	50 g-index
138 ext. papers	3,488 ext. citations	5.9 avg, IF	6.01 L-index

#	Paper	IF	Citations
120	Fabrication, Characterization and Evaluation of an Alginate-Lignin Composite for Rare-Earth Elements Recovery.. *Materials*, **2022**, 15,	3.5	2
119	Arsenate removal on the iron oxide ion exchanger modified with Neodymium(III) ions.. *Journal of Environmental Management*, **2022**, 307, 114551	7.9	0
118	Variation of TiO2/SiO2 mixed layers induced by Xe+ ion irradiation with energies from 100 to 250 keV. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 277, 115566	3.1	
117	Green citric acid in the sorption process of rare earth elements. *Chemical Engineering Journal*, **2022**, 437, 135366	14.7	2
116	Adsorption of vanadium (V) ions from the aqueous solutions on different biomass-derived biochars.. *Journal of Environmental Management*, **2022**, 313, 114958	7.9	2
115	Applicability of new sustainable and efficient alginate-based composites for critical raw materials recovery: General composites fabrication optimization and adsorption performance evaluation. *Chemical Engineering Journal*, **2022**, 137245	14.7	2
114	Functionalization of Zeolite NaP1 for Simultaneous Acid Red 18 and Cu(II) Removal.. *Materials*, **2021**, 14,	3.5	1
113	Zeolite NaP1 Functionalization for the Sorption of Metal Complexes with Biodegradable -(1,2-dicarboxyethyl)-D,L-aspartic Acid. *Materials*, **2021**, 14,	3.5	1
112	Synthesis of lignin-containing polymer hydrogels with tunable properties and their application in sorption of nickel(II) ions. *Industrial Crops and Products*, **2021**, 164, 113354	5.9	3
111	Impacts of heavy metals and medicinal crops on ecological systems, environmental pollution, cultivation, and production processes in China. *Ecotoxicology and Environmental Safety*, **2021**, 219, 112336	7	14
110	Development of functional lignin-based spherical particles for the removal of vanadium(V) from an aqueous system. *International Journal of Biological Macromolecules*, **2021**, 186, 181-193	7.9	3
109	Characterization and application of spherical carbonaceous materials prepared with the use of microwave radiation. *Diamond and Related Materials*, **2020**, 108, 107927	3.5	1
108	Enhanced Arsenic(V) Removal on an Iron-Based Sorbent Modified by Lanthanum(III). *Materials*, **2020**, 13,	3.5	5
107	New titanium oxide sorbent for As(V) and Cr(VI) removal as well as La(III) and Nd(III) recovery. *Journal of Molecular Liquids*, **2020**, 315, 113720	6	5
106	Investigations of elemental depth distribution and chemical compositions in the TiO2/SiO2/Si structures after ion irradiation. *Surface and Coatings Technology*, **2020**, 387, 125494	4.4	4
105	Novel multifunctional ion exchangers for metal ions removal in the presence of citric acid. *Chemosphere*, **2020**, 251, 126331	8.4	17
104	Zeolites in Phenol Removal in the Presence of Cu(II) Ions-Comparison of Sorption Properties after Chitosan Modification. *Materials*, **2020**, 13,	3.5	12

103	The influence of a washing pretreatment containing phosphate anions on single-mode microwave-based detoxification of fly ash from municipal solid waste incinerators. *Chemical Engineering Journal*, **2020**, 387, 124053	14.7	8
102	Novel synthesis method combining a foaming agent with freeze-drying to obtain hybrid highly macroporous bone scaffolds. *Journal of Materials Science and Technology*, **2020**, 43, 52-63	9.1	20
101	Evaluation of possible use of the macroporous ion exchanger in the adsorption process of rare earth elements and heavy metal ions from spent batteries solutions. *Chemical Engineering and Processing: Process Intensification*, **2020**, 147, 107767	3.7	12
100	Static and dynamic studies of lanthanum(III) ion adsorption/desorption from acidic solutions using chelating ion exchangers with different functionalities. *Environmental Research*, **2020**, 191, 110171	7.9	14
99	Recovery of Lanthanum(III) and Nickel(II) Ions from Acidic Solutions by the Highly Effective Ion Exchanger. *Molecules*, **2020**, 25,	4.8	2
98	Recovery of metals from waste nickel-metal hydride batteries using multifunctional Diphonix resin. *Adsorption*, **2019**, 25, 367-382	2.6	17
97	Detoxification of municipal solid waste incinerator (MSWI) fly ash by single-mode microwave (MW) irradiation: Addition of urea on the degradation of Dioxin and mechanism. *Journal of Hazardous Materials*, **2019**, 369, 279-289	12.8	20
96	Chemical modification of commercial St-DVB microspheres and their application for metal ions removal. *Adsorption*, **2019**, 25, 529-544	2.6	2
95	Recovery of rare earth elements from acidic solutions using macroporous ion exchangers. *Separation Science and Technology*, **2019**, 54, 2059-2076	2.5	5
94	Lanthanum and copper ions recovery from nickel-metal hydride cells leaching solutions by the oxide adsorbent Pyrolox . *Journal of Environmental Chemical Engineering*, **2019**, 7, 103003	6.8	1
93	Hypertensive Rats Treated Chronically With N-Nitro-L-Arginine Methyl Ester (L-NAME) Induced Disorder of Hepatic Fatty Acid Metabolism and Intestinal Pathophysiology. *Frontiers in Pharmacology*, **2019**, 10, 1677	5.6	10
92	Complexing Agents **2019**, 1-26		0
91	Rare Earth Elements Separation Methods Yesterday and Today **2019**, 161-185		5
90	Development of ion exchangers for the removal of health-hazardous perchlorate ions from aqueous systems. *Applied Geochemistry*, **2019**, 101, 75-87	3.5	4
89	Dielectric functions, chemical and atomic compositions of the near surface layers of implanted GaAs by In ions. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 198, 222-231	4.4	1
88	Titania-Coated Silica Alone and Modified by Sodium Alginate as Sorbents for Heavy Metal Ions. *Nanoscale Research Letters*, **2018**, 13, 96	5	19
87	Dielectric functions E1 and E1 + In near region of critical points and chemical composition of near surface layers of ions implanted GaAs. *Surface and Coatings Technology*, **2018**, 355, 200-206	4.4	1
86	Gd(III) Adsorption on the DTPA-functionalized chitosan/magnetite nanocomposites. *Separation Science and Technology*, **2018**, 53, 1006-1016	2.5	22

85	Use of three types of magnetic biochar in the removal of copper(II) ions from wastewaters. *Separation Science and Technology*, **2018**, 53, 1045-1057	2.5	17
84	Application of ion exchangers for the purification of galvanic wastewater from heavy metals. *Separation Science and Technology*, **2018**, 53, 1097-1106	2.5	10
83	Sorption of lanthanide ions on biochar composites. *Journal of Rare Earths*, **2018**, 36, 1212-1220	3.7	18
82	Malic acid-enhanced chitosan hydrogel beads (mCHBs) for the removal of Cr(VI) and Cu(II) from aqueous solution. *Chemical Engineering Journal*, **2018**, 353, 225-236	14.7	64
81	Utilization of Fly Ashes from the Coal Burning Processes to Produce Effective Low-Cost Sorbents. *Energy & Fuels*, **2017**, 31, 2095-2105	4.1	9
80	Uptake of heavy metal ions from aqueous solutions by sorbents obtained from the spent ion exchange resins. *Microporous and Mesoporous Materials*, **2017**, 244, 127-136	5.3	39
79	Modified fly ash and zeolites as an effective adsorbent for metal ions from aqueous solution. *Adsorption Science and Technology*, **2017**, 35, 519-533	3.6	15
78	Metal Ions Removal Using Nano Oxide Pyrolox□Material. *Nanoscale Research Letters*, **2017**, 12, 95	5	24
77	Adsorption of BTX from aqueous solutions by Na-P1 zeolite obtained from fly ash. *Chemical Engineering Research and Design*, **2017**, 109, 214-223	5.5	57
76	Zeolite properties improvement by chitosan modification□Sorption studies. *Journal of Industrial and Engineering Chemistry*, **2017**, 52, 187-196	6.3	35
75	Preparation and characterization of novel TiO2/lignin and TiO2-SiO2/lignin hybrids and their use as functional biosorbents for Pb(II). *Chemical Engineering Journal*, **2017**, 314, 169-181	14.7	83
74	Sol□Gel Derived Organic□Inorganic Hybrid Ceramic Materials for Heavy Metal Removal **2017**, 253-274		8
73	The zeolite modified by chitosan as an adsorbent for environmental applications. *Adsorption Science and Technology*, **2017**, 35, 834-844	3.6	8
72	Development of lignin based multifunctional hybrid materials for Cu(II) and Cd(II) removal from the aqueous system. *Chemical Engineering Journal*, **2017**, 330, 518-530	14.7	52
71	Investigations of Heavy Metal Ion Sorption Using Nanocomposites of Iron-Modified Biochar. *Nanoscale Research Letters*, **2017**, 12, 433	5	21
70	Comparison of sorption and desorption studies of heavy metal ions from biochar and commercial active carbon. *Chemical Engineering Journal*, **2017**, 307, 353-363	14.7	316
69	Application of Mineral Sorbents for Removal of Petroleum Substances: A Review. *Minerals (Basel, Switzerland)*, **2017**, 7, 37	2.4	61
68	Chemical composition of native oxides on noble gases implanted GaAs. *Thin Solid Films*, **2016**, 616, 55-63	2.2	3

67	Biodegradable chelating agent for heavy metal ions removal. *Separation Science and Technology*, **2016**, 51, 2576-2585	2.5	4
66	Gd-DTPA Adsorption on Chitosan/Magnetite Nanocomposites. *Nanoscale Research Letters*, **2016**, 11, 168	5	42
65	Preparation and properties of organomineral adsorbent obtained by sol–gel technology. *Journal of Thermal Analysis and Calorimetry*, **2016**, 125, 1335-1351	4.1	24
64	MULTIFUNCTIONAL RESIN DIPHONIX IN ADSORPTION OF HEAVY METAL COMPLEXES WITH METHYLGLYCINEDIACETIC ACID. *Environmental Engineering and Management Journal*, **2016**, 15, 2459-2468	0.6	1
63	Hydrogels from Fundaments to Application **2016**,		7
62	Synthesis, characterization, and application of a new methylenethiol resins for heavy metal ions removal. *Separation Science and Technology*, **2016**, 51, 2501-2510	2.5	2
61	Silica with immobilized phosphinic acid-derivative for uranium extraction. *Journal of Hazardous Materials*, **2016**, 314, 326-340	12.8	64
60	Development of New Effective Sorbents Based on Nanomagnetite. *Nanoscale Research Letters*, **2016**, 11, 152	5	31
59	Purolite S 940 and Purolite S 950 in heavy metal ions removal from acidic streams. *Separation Science and Technology*, **2016**, 51, 2528-2538	2.5	4
58	Synthesis and adsorption properties of chitosan-silica nanocomposite prepared by sol-gel method. *Nanoscale Research Letters*, **2015**, 10, 87	5	105
57	Effect of accompanying ions and ethylenediaminedisuccinic acid on heavy metals sorption using hybrid materials Lewatit FO 36 and Purolite Arsen X np. *Chemical Engineering Journal*, **2015**, 276, 376-387	14.7	12
56	Equilibrium, thermodynamic and kinetic studies on removal of chromium, copper, zinc and arsenic from aqueous solutions onto fly ash coated by chitosan. *Chemical Engineering Journal*, **2015**, 274, 200-212	14.7	145
55	Synthesis and characterization of porous microspheres bearing pyrrolidone units. *Materials Chemistry and Physics*, **2015**, 149-150, 43-50	4.4	10
54	Ion Exchange Method for Removal and Separation of Noble Metal Ions **2015**,		5
53	Adsorption of V(V), Mo(VI) and Cr(VI) Oxoanions by Chitosan–Silica Composite Synthesized by Mannich Reaction. *Adsorption Science and Technology*, **2015**, 33, 645-657	3.6	20
52	DOWEX M 4195 and LEWATIT® MonoPlus TP 220 in Heavy Metal Ions Removal from Acidic Streams. *Separation Science and Technology*, **2014**, 49, 2003-2015	2.5	28
51	Evaluation of heavy metal ions removal from acidic waste water streams. *Chemical Engineering Journal*, **2014**, 252, 362-373	14.7	57
50	Evaluation of iron-based hybrid materials for heavy metal ions removal. *Journal of Materials Science* , **2014**, 49, 2483-2495	4.3	18

49	Application of a new generation of complexing agents in removal of heavy metal ions from different wastes. *Environmental Science and Pollution Research*, **2013**, 20, 5939-49	5.1	54
48	Modern hybrid sorbents – New ways of heavy metal removal from waters. *Chemical Engineering and Processing: Process Intensification*, **2013**, 70, 55-65	3.7	15
47	Nitrilotris(methylenephosphonic) acid as a complexing agent in sorption of heavy metal ions on ion exchangers. *Chemical Engineering Journal*, **2013**, 215-216, 948-958	14.7	9
46	Removal of heavy metal ions in the presence of the biodegradable complexing agent of EDDS from waters. *Chemical Engineering Journal*, **2013**, 221, 512-521	14.7	15
45	Chemical Composition of Native Oxide Layers on In+Implanted and Thermally Annealed GaAs. *Acta Physica Polonica A*, **2013**, 123, 943-947	0.6	4
44	A new type of cation-exchange polymeric microspheres with pendant methylenethiol groups. *Polymers for Advanced Technologies*, **2013**, 24, 866-872	3.2	15
43	Sorption of Cd(II), Co(II), and Zn(II) Complexes with MGDA on Anion Exchange Resins: A Study of the Influence of Various Parameters. *Separation Science and Technology*, **2013**, 48, 1801-1809	2.5	6
42	Sorption of Zn(II) and Pb(II) ions in the presence of the biodegradable complexing agent of a new generation. *Chemical Engineering Research and Design*, **2012**, 90, 1671-1679	5.5	17
41	Methylglycinediacetic Acid as a New Complexing Agent for Removal of Heavy Metal Ions from Industrial Wastewater. *Solvent Extraction and Ion Exchange*, **2012**, 30, 181-196	2.5	12
40	Kinetic and adsorptive characterization of biochar in metal ions removal. *Chemical Engineering Journal*, **2012**, 197, 295-305	14.7	430
39	Hexacyanoferrate Composite Sorbent in Removal of Anionic Species From Waters and Waste Waters. *Separation Science and Technology*, **2012**, 47, 1361-1368	2.5	6
38	Selective Removal of Heavy Metal Ions from Waters and Waste Waters Using Ion Exchange Methods **2012**,		39
37	Adsorption characteristics of chitosan modified by chelating agents of a new generation. *Chemical Engineering Journal*, **2012**, 179, 33-43	14.7	47
36	Green complexing agent – EDDS in removal of heavy metal ions on strongly basic anion exchangers. *Desalination*, **2011**, 280, 44-57	10.3	16
35	Chitosan as an effective low-cost sorbent of heavy metal complexes with the polyaspartic acid. *Chemical Engineering Journal*, **2011**, 173, 520-529	14.7	67
34	Sorption of Cu(II) and Ni(II) ions in the presence of the methylglycinediacetic acid by microporous ion exchangers and sorbents from aqueous solutions. *Open Chemistry*, **2011**, 9, 52-65	1.6	6
33	Application of strongly basic anion exchangers for removal of heavy metal ions in the presence of green chelating agent. *Chemical Engineering Journal*, **2011**, 168, 994-1007	14.7	18
32	The effect of the presence of metatartaric acid on removal effectiveness of heavy metal ions on chelating ion exchangers. *Environmental Technology (United Kingdom)*, **2011**, 32, 805-16	2.6	7

31	Cu(II), Zn(II), Co(II) and Pb(II) removal in the presence of the complexing agent of a new generation. *Desalination*, **2011**, 267, 175-183	10.3	42
30	Sorption of heavy metal metatartrate complexes on polystyrene anion exchangers. *Environmental Technology (United Kingdom)*, **2011**, 32, 569-82	2.6	1
29	The biodegradable complexing agents as an alternative to chelators in sorption of heavy metal ions. *Desalination and Water Treatment*, **2010**, 16, 146-155		3
28	Removal of Cd(II) and Pb(II) complexes with glycolic acid from aqueous solutions on different ion exchangers. *Canadian Journal of Chemistry*, **2010**, 88, 540-547	0.9	6
27	Cu(II), Zn(II), Ni(II), and Cd(II) Complexes with HEDP Removal from Industrial Effluents on Different Ion Exchangers. *Industrial & Engineering Chemistry Research*, **2010**, 49, 2388-2400	3.9	21
26	Sorption of Cd(II), Pb(II), Cu(II), and Zn(II) Complexes with Nitrilotris(Methylenephosphonic) Acid on Polystyrene Anion Exchangers. *Industrial & Engineering Chemistry Research*, **2010**, 49, 4700-4709	3.9	8
25	Diphonix Resin in sorption of heavy metal ions in the presence of the biodegradable complexing agents of a new generation. *Chemical Engineering Journal*, **2010**, 159, 27-36	14.7	13
24	The effect of the novel complexing agent in removal of heavy metal ions from waters and waste waters. *Chemical Engineering Journal*, **2010**, 165, 835-845	14.7	44
23	The effects of the treatment conditions on metal ions removal in the presence of complexing agents of a new generation. *Desalination*, **2010**, 263, 159-169	10.3	11
22	Effect of adsorption of Pb(II) and Cd(II) ions in the presence of EDTA on the characteristics of electrical double layers at the ion exchanger/NaCl electrolyte solution interface. *Journal of Colloid and Interface Science*, **2009**, 333, 448-56	9.3	17
21	Polyacrylate anion exchangers in sorption of heavy metal ions with the biodegradable complexing agent. *Chemical Engineering Journal*, **2009**, 150, 280-288	14.7	21
20	Polyacrylate anion exchangers in sorption of heavy metal ions with non-biodegradable complexing agents. *Chemical Engineering Journal*, **2009**, 150, 308-315	14.7	14
19	Iminodisuccinic acid as a new complexing agent for removal of heavy metal ions from industrial effluents. *Chemical Engineering Journal*, **2009**, 152, 277-288	14.7	17
18	Studies of application of monodisperse anion exchangers in sorption of heavy metal complexes with IDS. *Desalination*, **2009**, 239, 216-228	10.3	17
17	Heavy Metal Ions Removal in the Presence of 1-Hydroxyethane-1,1-diphosphonic Acid From Aqueous Solutions on Polystyrene Anion Exchangers. *Industrial & Engineering Chemistry Research*, **2009**, 48, 10584-10593	3.9	17
16	FT-IR/PAS Studies of Cu(II)-EDTA Complexes Sorption the Chelating Ion Exchangers. *Acta Physica Polonica A*, **2009**, 116, 340-343	0.6	25
15	Polyaspartic Acid As a New Complexing Agent in Removal of Heavy Metal Ions on Polystyrene Anion Exchangers. *Industrial & Engineering Chemistry Research*, **2008**, 47, 6221-6227	3.9	27
14	Application of a New-Generation Complexing Agent in Removal of Heavy Metal Ions from Aqueous Solutions. *Industrial & Engineering Chemistry Research*, **2008**, 47, 3192-3199	3.9	27

13	Comparison of chelating ion exchange resins in sorption of copper(II) and zinc(II) complexes with ethylenediaminetetraacetic acid (EDTA) and nitrilotriacetic acid (NTA). *Canadian Journal of Chemistry*, **2008**, 86, 958-969	0.9	5
12	Application of monodispersive anion exchangers in sorption and separation of Y3+ from Nd3+ and Sm3+ complexes with dcta. *Journal of Rare Earths*, **2008**, 26, 619-625	3.7	4
11	Sorption of heavy metal ions from aqueous solutions in the presence of EDTA on monodisperse anion exchangers. *Desalination*, **2008**, 227, 150-166	10.3	43
10	Separation of rare-earth element complexes with trans-1,2-diaminocyclohexane-N,N,N?,N?-tetraacetic acid on polyacrylate anion exchangers. *Hydrometallurgy*, **2004**, 71, 343-350	4	8
9	Separation of Y(dcta)- complexes from Nd(dcta)- and Sm(dcta)- complexes on polyacrylate anion-exchangers (Short communication). *Journal of the Serbian Chemical Society*, **2003**, 68, 183-190	0.9	1
8	Studies on application of polyacrylate anion-exchangers in sorption and separation of iminodiacetate rare earth element(III) complexes. *Hydrometallurgy*, **2001**, 62, 107-113	4	14
7	Investigation into the Use of Macroporous Anion Exchangers for the Sorption and Separation of Iminodiacetate Complexes of Lanthanum(III) and Neodymium(III). *Adsorption Science and Technology*, **2000**, 18, 719-726	3.6	5
6	Separation of Y(III) complexes from Dy(III), Ho(III) and Er(III) complexes with iminodiacetic acid on the anion-exchangers type 1 and type 2. *Hydrometallurgy*, **1999**, 53, 89-100	4	8
5	Studies on separation of iminodiacetate complexes of lanthanum (III) from neodymium (III) and praseodymium (III) on anion-exchangers. *Hydrometallurgy*, **1998**, 50, 51-60	4	14
4	Anion-exchange method for separation of ytterbium from holmium and erbium. *Hydrometallurgy*, **1997**, 47, 127-136	4	8
3	New approach to Cu(II), Zn(II) and Ni(II) ions removal at high NaCl concentration on the modified chelating resin74, 184-196		3
2	Lanthanides and heavy metals sorption on alginates as effective sorption materials131, 238-251		2
1	Investigation of Sorption and Separation of Lanthanides on the Ion Exchangers of Various Types		10