Mercedes RegadÃ-o

List of Publications by Year
in descending order

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290	24,263	15466 65	8370 147
papers	citations	h-index	g-index

297	297	297	19232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lanthanide-Based Luminescent Hybrid Materials. Chemical Reviews, 2009, 109, 4283-4374.	23.0	2,989
2	Interpretation of europium(III) spectra. Coordination Chemistry Reviews, 2015, 295, 1-45.	9.5	2,104
3	Recycling of rare earths: a critical review. Journal of Cleaner Production, 2013, 51, 1-22.	4.6	1,704
4	Ionic Liquid Crystals. Chemical Reviews, 2005, 105, 4148-4204.	23.0	1,072
5	Ionic Liquid Crystals: Versatile Materials. Chemical Reviews, 2016, 116, 4643-4807.	23.0	617
6	Lanthanides and Actinides in Ionic Liquids. Chemical Reviews, 2007, 107, 2592-2614.	23.0	616
7	Lanthanide-Containing Liquid Crystals and Surfactants. Chemical Reviews, 2002, 102, 2303-2346.	23.0	491
8	Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. Journal of Cleaner Production, 2015, 99, 17-38.	4.6	463
9	Task-Specific Ionic Liquid for Solubilizing Metal Oxides. Journal of Physical Chemistry B, 2006, 110, 20978-20992.	1.2	412
10	Leaching of rare earths from bauxite residue (red mud). Minerals Engineering, 2015, 76, 20-27.	1.8	368
11	REE Recovery from End-of-Life NdFeB Permanent Magnet Scrap: A Critical Review. Journal of Sustainable Metallurgy, 2017, 3, 122-149.	1.1	365
12	A luminescent tris(2-thenoyltrifluoroacetonato)europium(iii) complex covalently linked to a 1,10-phenanthroline-functionalised solâ€“gel glass. Journal of Materials Chemistry, 2004, 14, 191-195.	6.7	328
13	Removal of transition metals from rare earths by solvent extraction with an undiluted phosphonium ionic liquid: separations relevant to rare-earth magnet recycling. Green Chemistry, 2013, 15, 919.	4.6	312
14	Rare-Earth-Containing Magnetic Liquid Crystals. Journal of the American Chemical Society, 2000, 122, 4335-4344.	6.6	252
15	Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review. Journal of Sustainable Metallurgy, 2016, 2, 365-386.	1.1	231
16	Immobilization of molecular catalysts in supported ionic liquid phases. Dalton Transactions, 2010, 39, 8377.	1.6	223
17	An environmentally friendlier approach to hydrometallurgy: highly selective separation of cobalt from nickel by solvent extraction with undiluted phosphonium ionic liquids. Green Chemistry, 2012, 14, 1657.	4.6	202
18	Biobased Ionic Liquids: Solvents for a Green Processing Industry?. ACS Sustainable Chemistry and Engineering, 2016, 4, 2917-2931.	3.2	195

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19	Homogeneous Liquidâ€“Liquid Extraction of Metal Ions with a Functionalized Ionic Liquid. Journal of Physical Chemistry Letters, 2013, 4, 1659-1663.	2.1	194
20	Rare Earths and the Balance Problem: How to Deal with Changing Markets?. Journal of Sustainable Metallurgy, 2018, 4, 126-146.	1.1	194
21	Rare-earth recycling using a functionalized ionic liquid for the selective dissolution and revalorization of Y₂O₃:Eu³⁺ from lamp phosphor waste. Green Chemistry, 2015, 17, 856-868.	4.6	189
22	Highly efficient separation of rare earths from nickel and cobalt by solvent extraction with the ionic liquid trihexyl(tetradecyl)phosphonium nitrate: a process relevant to the recycling of rare earths from permanent magnets and nickel metal hydride batteries. Green Chemistry, 2014, 16, 1594-1606.	4.6	188
23	Extraction and separation of neodymium and dysprosium from used NdFeB magnets: an application of ionic liquids in solvent extraction towards the recycling of magnets. Green Chemistry, 2015, 17, 2931-2942.	4.6	181
24	Degradation of Deep-Eutectic Solvents Based on Choline Chloride and Carboxylic Acids. ACS Sustainable Chemistry and Engineering, 2019, 7, 11521-11528.	3.2	179
25	Solvometallurgy: An Emerging Branch of Extractive Metallurgy. Journal of Sustainable Metallurgy, 2017, 3, 570-600.	1.1	178
26	Electrochemical decomposition of choline chloride based ionic liquid analogues. Green Chemistry, 2009, 11, 1357.	4.6	169
27	High pressure, high temperature electrochemical synthesis of metalâ€“organic frameworks: films of MIL-100 (Fe) and HKUST-1 in different morphologies. Journal of Materials Chemistry A, 2013, 1, 5827.	5.2	167
28	Adsorption and chromatographic separation of rare earths with EDTA- and DTPA-functionalized chitosan biopolymers. Journal of Materials Chemistry A, 2014, 2, 1530-1540.	5.2	166
29	Adsorption performance of functionalized chitosanâ€“silica hybrid materials toward rare earths. Journal of Materials Chemistry A, 2014, 2, 19415-19426.	5.2	151
30	Electrocarboxylation: towards sustainable and efficient synthesis of valuable carboxylic acids. Beilstein Journal of Organic Chemistry, 2014, 10, 2484-2500.	1.3	150
31	From NdFeB magnets towards the rare-earth oxides: a recycling process consuming only oxalic acid. RSC Advances, 2014, 4, 64099-64111.	1.7	149
32	Solvometallurgical recovery of cobalt from lithium-ion battery cathode materials using deep-eutectic solvents. Green Chemistry, 2020, 22, 4210-4221.	4.6	149
33	Luminescence of metallomesogens in the liquid crystal state. Journal of Materials Chemistry, 2009, 19, 448-453.	6.7	147
34	Recycling of rare earths from NdFeB magnets using a combined leaching/extraction system based on the acidity and thermomorphism of the ionic liquid [Hbet][Tf₂N]. Green Chemistry, 2015, 17, 2150-2163.	4.6	142
35	Overview of the Effect of Salts on Biphasic Ionic Liquid/Water Solvent Extraction Systems: Anion Exchange, Mutual Solubility, and Thermomorphic Properties. Journal of Physical Chemistry B, 2015, 119, 6747-6757.	1.2	140
36	Rare Earths and the Balance Problem. Journal of Sustainable Metallurgy, 2015, 1, 29-38.	1.1	140

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37	On the electrochemical deposition of metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 3914-3925.	5.2	138
38	1,2,4-Triazolium perfluorobutanesulfonate as an archetypal pure protic organic ionic plastic crystal electrolyte for all-solid-state fuel cells. Energy and Environmental Science, 2015, 8, 1276-1291.	15.6	134
39	Smelting of Bauxite Residue (Red Mud) in View of Iron and Selective Rare Earths Recovery. Journal of Sustainable Metallurgy, 2016, 2, 28-37.	1.1	126
40	Solvent Extraction of Neodymium(III) by Functionalized Ionic Liquid Trioctylmethylammonium Dioctyl Diglycolamate in Fluorine-free Ionic Liquid Diluent. Industrial & Engineering Chemistry Research, 2014, 53, 6500-6508.	1.8	124
41	Extraction of rare earths from bauxite residue (red mud) by dry digestion followed by water leaching. Minerals Engineering, 2018, 119, 82-92.	1.8	117
42	Liquidâ€“liquid extraction of europium(<scp>iii</scp>) and other trivalent rare-earth ions using a non-fluorinated functionalized ionic liquid. Dalton Transactions, 2014, 43, 1862-1872.	1.6	115
43	Near-zero-waste processing of low-grade, complex primary ores and secondary raw materials in Europe: technology development trends. Resources, Conservation and Recycling, 2020, 160, 104919.	5.3	114
44	Recovery of Scandium(III) from Aqueous Solutions by Solvent Extraction with the Functionalized Ionic Liquid Betainium Bis(trifluoromethylsulfonyl)imide. Industrial & Engineering Chemistry Research, 2015, 54, 1887-1898.	1.8	113
45	Near-Infrared Luminescence of Lanthanide Calcein and Lanthanide Dipicolinate Complexes Doped into a Silicaâ^'PEG Hybrid Material. Chemistry of Materials, 2004, 16, 1531-1535.	3.2	110
46	Selective extraction of metals using ionic liquids for nickel metal hydride battery recycling. Green Chemistry, 2014, 16, 4595-4603.	4.6	110
47	Antimony Recovery from End-of-Life Products and Industrial Process Residues: A Critical Review. Journal of Sustainable Metallurgy, 2016, 2, 79-103.	1.1	110
48	Separation of rare earths and other valuable metals from deep-eutectic solvents: a new alternative for the recycling of used NdFeB magnets. RSC Advances, 2017, 7, 32100-32113.	1.7	107
49	Near-infrared photoluminescence of lanthanide-doped liquid crystals. Journal of Materials Chemistry, 2003, 13, 1520-1522.	6.7	104
50	A continuous ionic liquid extraction process for the separation of cobalt from nickel. Green Chemistry, 2013, 15, 3160.	4.6	100
51	p-Toluenesulfonic Acid-Based Deep-Eutectic Solvents for Solubilizing Metal Oxides. ACS Sustainable Chemistry and Engineering, 2019, 7, 3940-3948.	3.2	100
52	Room-temperature magnetic anisotropy of lanthanide complexes: A model study for various coordination polyhedra. Journal of Chemical Physics, 2002, 116, 4673-4685.	1.2	98
53	Recovery of scandium from leachates of Greek bauxite residue by adsorption on functionalized chitosanâ€“silica hybrid materials. Green Chemistry, 2016, 18, 2005-2013.	4.6	95
54	Polynuclear Metal Complexes Obtained from the Task-Specific Ionic Liquid Betainium Bistriflimide. Crystal Growth and Design, 2008, 8, 1353-1363.	1.4	93

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55	Imidazo[4,5-f]-1,10-phenanthrolines: Versatile Ligands for the Design of Metallomesogens. Chemistry of Materials, 2008, 20, 1278-1291.	3.2	91
56	Homogeneous Liquidâ€“Liquid Extraction of Rare Earths with the Betaineâ€”Betainium Bis(trifluoromethylsulfonyl)imide Ionic Liquid System. International Journal of Molecular Sciences, 2013, 14, 21353-21377.	1.8	87
57	Dissolution of metal oxides in an acid-saturated ionic liquid solution and investigation of the back-extraction behaviour to the aqueous phase. Hydrometallurgy, 2014, 144-145, 27-33.	1.8	86
58	Recovery of scandium from sulfation-roasted leachates of bauxite residue by solvent extraction with the ionic liquid betainium bis(trifluoromethylsulfonyl)imide. Separation and Purification Technology, 2017, 176, 208-219.	3.9	85
59	Structure and Mesomorphic Behavior of Alkoxy-Substituted Bis(phthalocyaninato)lanthanide(III) Complexes. Chemistry of Materials, 2003, 15, 3930-3938.	3.2	77
60	Narrow band photoluminescence of europium-doped liquid crystals. Journal of Materials Chemistry, 2002, 12, 3374-3376.	6.7	73
61	Samarium/cobalt separation by solvent extraction with undiluted quaternary ammonium ionic liquids. Separation and Purification Technology, 2019, 210, 209-218.	3.9	72
62	Separation of rare earths by split-anion extraction. Hydrometallurgy, 2015, 156, 206-214.	1.8	70
63	Purification of indium by solvent extraction with undiluted ionic liquids. Green Chemistry, 2016, 18, 4116-4127.	4.6	69
64	Potential MRI Contrast Agents Based on Micellar Incorporation of Amphiphilic Bis(alkylamide) Derivatives of [(Gdâ^'DTPA)(H2O)]2â^'. European Journal of Inorganic Chemistry, 2003, 2003, 3021-3027.	1.0	67
65	Separation of rare earths and nickel by solvent extraction with two mutually immiscible ionic liquids. RSC Advances, 2014, 4, 5753.	1.7	66
66	Solvent Extraction of Scandium(III) by an Aqueous Biphasic System with a Nonfluorinated Functionalized Ionic Liquid. Industrial & Engineering Chemistry Research, 2015, 54, 8988-8996.	1.8	66
67	Recovery of Rare Earths and Major Metals from Bauxite Residue (Red Mud) by Alkali Roasting, Smelting, and Leaching. Journal of Sustainable Metallurgy, 2017, 3, 393-404.	1.1	65
68	Mixed Copperâ€“Lanthanide Metallomesogens. Chemistry - A European Journal, 2002, 8, 1101.	1.7	64
69	Metal Recovery from Spent Samariumâ€“Cobalt Magnets Using a Trichloride Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2019, 7, 2578-2584.	3.2	63
70	Lignin solubility in nonâ€imidazolium ionic liquids. Journal of Chemical Technology and Biotechnology, 2015, 90, 1821-1826.	1.6	62
71	Ionic liquids with trichloride anions for oxidative dissolution of metals and alloys. Chemical Communications, 2018, 54, 475-478.	2.2	61
72	Pollution profiles and physicochemical parameters in old uncontrolled landfills. Waste Management, 2012, 32, 482-497.	3.7	60

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73	Halogen substitution as an efficient tool to increase the near-infrared photoluminescence intensity of erbium(iii) quinolinates in non-deuterated DMSO. Physical Chemistry Chemical Physics, 2003, 5, 2754-2757.	1.3	59
74	Gadolinium DTPA-Monoamide Complexes Incorporated into Mixed Micelles as Possible MRI Contrast Agents. European Journal of Inorganic Chemistry, 2004, 2004, 3538-3543.	1.0	59
75	Speciation of Uranyl Nitrato Complexes in Acetonitrile and in the Ionic Liquid 1â€Butylâ€3â€methylimidazolium Bis(trifluoromethylsulfonyl)imide. European Journal of Inorganic Chemistry, 2007, 2007, 5120-5126.	1.0	57
76	Separation of transition metals from rare earths by non-aqueous solvent extraction from ethylene glycol solutions using Aliquat 336. Separation and Purification Technology, 2018, 201, 318-326.	3.9	57
77	Trihalide ionic liquids as non-volatile oxidizing solvents for metals. Green Chemistry, 2018, 20, 3327-3338.	4.6	56
78	Enhancing rare-earth recovery from lamp phosphor waste. Hydrometallurgy, 2019, 187, 38-44.	1.8	56
79	Ethylenediaminetriacetic Acid-Functionalized Activated Carbon for the Adsorption of Rare Earths from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2018, 57, 1487-1497.	1.8	55
80	Ionic liquids as solvents for PPTA oligomers. Green Chemistry, 2016, 18, 1639-1652.	4.6	54
81	Spectroscopic properties of uranyl chloride complexes in non-aqueous solvents. Physical Chemistry Chemical Physics, 2004, 6, 3292-3298.	1.3	53
82	Hydrometallurgical Processes for the Recovery of Metals from Steel Industry By-Products: A Critical Review. Journal of Sustainable Metallurgy, 2020, 6, 505-540.	1.1	53
83	Model for Metal Extraction from Chloride Media with Basic Extractants: A Coordination Chemistry Approach. Inorganic Chemistry, 2019, 58, 12289-12301.	1.9	52
84	Oxidative Dissolution of Metals in Organic Solvents. Chemical Reviews, 2021, 121, 4506-4530.	23.0	52
85	Efficient and Sustainable Removal of Magnesium from Brines for Lithium/Magnesium Separation Using Binary Extractants. ACS Sustainable Chemistry and Engineering, 2019, 7, 19225-19234.	3.2	51
86	Selective electrochemical extraction of REEs from NdFeB magnet waste at room temperature. Green Chemistry, 2018, 20, 1065-1073.	4.6	50
87	Efficient separation of transition metals from rare earths by an undiluted phosphonium thiocyanate ionic liquid. Physical Chemistry Chemical Physics, 2016, 18, 16039-16045.	1.3	49
88	Quinolinium and isoquinolinium ionic liquid crystals. RSC Advances, 2012, 2, 8061.	1.7	48
89	Electrodeposition of copperâ€“zinc alloys from an ionic liquid-like choline acetate electrolyte. Electrochimica Acta, 2013, 108, 788-794.	2.6	48
90	Lanthanide(III) Dodecanoates: Structure, Thermal Behaviour, and Ion-Size Effects on the Mesomorphism. European Journal of Inorganic Chemistry, 2000, 2000, 1429-1436.	1.0	47

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91	Selective Extraction of Rare-Earth Elements from NdFeB Magnets by a Room-Temperature Electrolysis Pretreatment Step. ACS Sustainable Chemistry and Engineering, 2018, 6, 9375-9382.	3.2	47
92	Cobalt(ii)/nickel(ii) separation from sulfate media by solvent extraction with an undiluted quaternary phosphonium ionic liquid. RSC Advances, 2017, 7, 35992-35999.	1.7	46
93	Methanesulfonic acid: a sustainable acidic solvent for recovering metals from the jarosite residue of the zinc industry. Green Chemistry, 2019, 21, 5394-5404.	4.6	46
94	Determination of Halide Impurities in Ionic Liquids by Total Reflection X-ray Fluorescence Spectrometry. Analytical Chemistry, 2014, 86, 3931-3938.	3.2	45
95	Cellulose conversion into alkylglycosides in the ionic liquid 1-butyl-3-methylimidazolium chloride. Green Chemistry, 2010, 12, 1790.	4.6	44
96	Highly Soluble 1,4-Diaminoanthraquinone Derivative for Nonaqueous Symmetric Redox Flow Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 3832-3843.	3.2	44
97	Solvometallurgical Recovery of Platinum Group Metals from Spent Automotive Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 337-350.	3.2	44
98	The performance of natural clay as a barrier to the diffusion of municipal solid waste landfill leachates. Journal of Environmental Management, 2012, 95, S175-S181.	3.8	43
99	Shaping of Alginateâ€“Silica Hybrid Materials into Microspheres through Vibrating-Nozzle Technology and Their Use for the Recovery of Neodymium from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2015, 54, 12836-12846.	1.8	43
100	Guanidinium nonaflate as a solid-state proton conductor. Journal of Materials Chemistry A, 2016, 4, 12241-12252.	5.2	43
101	Separation of neodymium and dysprosium by solvent extraction using ionic liquids combined with neutral extractants: batch and mixer-settler experiments. RSC Advances, 2020, 10, 307-316.	1.7	43
102	Solvent extraction of europium(<scp>iii</scp>) to a fluorine-free ionic liquid phase with a diglycolamic acid extractant. RSC Advances, 2014, 4, 11899-11906.	1.7	42
103	Solvation Structure of Sodium Bis(fluorosulfonyl)imide-Glyme Solvate Ionic Liquids and Its Influence on Cycling of Na-MNC Cathodes. Journal of Physical Chemistry B, 2018, 122, 275-289.	1.2	42
104	Recovery of Gallium, Indium, and Arsenic from Semiconductors Using Tribromide Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 14451-14459.	3.2	42
105	Solvometallurgical process for extraction of copper from chalcopyrite and other sulfidic ore minerals. Green Chemistry, 2020, 22, 417-426.	4.6	42
106	Separation of precious metals by split-anion extraction using water-saturated ionic liquids. Green Chemistry, 2020, 22, 8375-8388.	4.6	41
107	Dinuclear Lanthanide Schiff-Base Complexes Forming a Rectangular Columnar Mesophase. European Journal of Inorganic Chemistry, 2006, 2006, 150-157.	1.0	40
108	Selective Metal Recovery from Jarosite Residue by Leaching with Acid-Equilibrated Ionic Liquids and Precipitation-Stripping. ACS Sustainable Chemistry and Engineering, 2019, 7, 4239-4246.	3.2	40

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109	Solvometallurgical route for the recovery of Sm, Co, Cu and Fe from SmCo permanent magnets. Separation and Purification Technology, 2019, 219, 281-289.	3.9	40
110	Liquidâ€Crystalline Ternary Rareâ€Earth Complexes. European Journal of Inorganic Chemistry, 2008, 2008, 756-761.	1.0	38
111	Speciation of indium(<scp>iii</scp>) chloro complexes in the solvent extraction process from chloride aqueous solutions to ionic liquids. Dalton Transactions, 2017, 46, 4412-4421.	1.6	38
112	Recovery of rare earths from the green lamp phosphor LaPO₄:Ce³⁺,Tb³⁺ (LAP) by dissolution in concentrated methanesulphonic acid. RSC Advances, 2018, 8, 26349-26355.	1.7	38
113	Stability of ionic liquids in BrÃ¸nsted-basic media. Green Chemistry, 2020, 22, 5225-5252.	4.6	38
114	Crystal structures of low-melting ionic transition-metal complexes with N-alkylimidazole ligands. CrystEngComm, 2012, 14, 4902.	1.3	37
115	Neutralisation of bauxite residue by carbon dioxide prior to acidic leaching for metal recovery. Minerals Engineering, 2017, 112, 92-102.	1.8	37
116	Practical guidelines for best practice on Total Reflection X-ray Fluorescence spectroscopy: Analysis of aqueous solutions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 124, 109-115.	1.5	36
117	Effect of the diluent on the solvent extraction of neodymium(III) by bis(2-ethylhexyl)phosphoric acid (D2EHPA). Hydrometallurgy, 2018, 177, 146-151.	1.8	36
118	Structural effects of neutral organophosphorus extractants on solvent extraction of rare-earth elements from aqueous and non-aqueous nitrate solutions. Separation and Purification Technology, 2021, 255, 117711.	3.9	36
119	Selective recovery of indium from iron-rich solutions using an Aliquat 336 iodide supported ionic liquid phase (SILP). Separation and Purification Technology, 2019, 212, 843-853.	3.9	35
120	Rigid tetracatenar liquid crystals derived from 1,10-phenanthroline. Soft Matter, 2008, 4, 2172.	1.2	34
121	Recovery of scandium(<scp>iii</scp>) from diluted aqueous solutions by a supported ionic liquid phase (SILP). RSC Advances, 2017, 7, 49664-49674.	1.7	34
122	Separation of Rare Earths by Solvent Extraction with an Undiluted Nitrate Ionic Liquid. Journal of Sustainable Metallurgy, 2017, 3, 73-78.	1.1	34
123	Solvent Extraction of Gold(III) with Diethyl Carbonate. ACS Sustainable Chemistry and Engineering, 2020, 8, 13713-13723.	3.2	34
124	Selective recovery of zinc from goethite residue in the zinc industry using deep-eutectic solvents. RSC Advances, 2020, 10, 7328-7335.	1.7	34
125	How safe are protic ionic liquids? Explosion of pyrrolidinium nitrate. Green Chemistry, 2013, 15, 3484.	4.6	33
126	Base stable quaternary ammonium ionic liquids. RSC Advances, 2014, 4, 4472-4477.	1.7	33

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127	Speciation of lanthanide ions in the organic phase after extraction from nitrate media by basic extractants. RSC Advances, 2018, 8, 32044-32054.	1.7	33
128	Enhancing Metal Separations by Liquidâ€“Liquid Extraction Using Polar Solvents. Chemistry - A European Journal, 2019, 25, 9197-9201.	1.7	33
129	Recovery of yttrium and europium from spent fluorescent lamps using pure levulinic acid and the deep eutectic solvent levulinic acidâ€“choline chloride. RSC Advances, 2020, 10, 28879-28890.	1.7	33
130	Liquid-crystalline azines formed by the rare-earth promoted decomposition of hydrazide â€œhabbeâ€• ligands: structural and thermal properties. Journal of Materials Chemistry, 2003, 13, 1639-1645.	6.7	32
131	Direct Analysis of Metal Ions in Solutions with High Salt Concentrations by Total Reflection X-ray Fluorescence. Analytical Chemistry, 2017, 89, 4595-4603.	3.2	32
132	Recovery of Lead and Silver from Zinc Leaching Residue Using Methanesulfonic Acid. ACS Sustainable Chemistry and Engineering, 2019, 7, 19807-19815.	3.2	32
133	Selective removal of magnesium from lithiumâ€rich brine for lithium purification by synergic solvent extraction using Î²â€diketones and Cyanex 923. AICHE Journal, 2020, 66, e16246.	1.8	32
134	Alkali-Metal Salts of Aromatic Carboxylic Acids: Liquid Crystals without Flexible Chains. European Journal of Inorganic Chemistry, 2005, 2005, 563-571.	1.0	31
135	Study of Thermodynamic and Kinetic Stability of Transition Metal and Lanthanide Complexes of DTPA Analogues with a Phosphorus Acid Pendant Arm. European Journal of Inorganic Chemistry, 2006, 2006, 1976-1986.	1.0	31
136	Rare-Earth Nitroquinolinates: Visible-Light-Sensitizable Near-Infrared Emitters in Aqueous Solution. European Journal of Inorganic Chemistry, 2007, 2007, 302-305.	1.0	31
137	Electrochemical dicarboxylation of conjugated fatty acids as an efficient valorization of carbon dioxide. RSC Advances, 2013, 3, 4634.	1.7	31
138	Separation of rare-earth ions from ethylene glycol (+LiCl) solutions by non-aqueous solvent extraction with Cyanex 923. RSC Advances, 2017, 7, 45351-45362.	1.7	31
139	Containment and attenuating layers: An affordable strategy that preserves soil and water from landfill pollution. Waste Management, 2015, 46, 408-419.	3.7	30
140	Metal coordination in the high-temperature leaching of roasted NdFeB magnets with the ionic liquid betainium bis(trifluoromethylsulfonyl)imide. RSC Advances, 2018, 8, 9299-9310.	1.7	30
141	Selective ion-exchange separation of scandium(III) over iron(III) by crystalline Î±-zirconium phosphate platelets under acidic conditions. Separation and Purification Technology, 2019, 215, 81-90.	3.9	30
142	Thermal behaviour of lanthanum(III) alkanoates. Liquid Crystals, 2001, 28, 1727-1733.	0.9	29
143	Lanthanide(III)-Induced Conversion of 12-Metallacrown-4 to 5-Metallacrown-5 Complexes in Solution. European Journal of Inorganic Chemistry, 2005, 2005, 3303-3310.	1.0	29
144	Electrodeposition of luminescent composite metal coatings containing rare-earth phosphor particles. Journal of Materials Chemistry, 2012, 22, 5514.	6.7	29

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145	Electrodeposition of Lithium from Lithium-Containing Solvate Ionic Liquids. Journal of Physical Chemistry C, 2014, 118, 20152-20162.	1.5	29
146	Synthesis of Poly-p-phenylene Terephthalamide (PPTA) in Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 1362-1369.	3.2	28
147	Yttrium and europium separation by solvent extraction with undiluted thiocyanate ionic liquids. RSC Advances, 2019, 9, 4876-4883.	1.7	28
148	Recycling of bonded NdFeB permanent magnets using ionic liquids. Green Chemistry, 2020, 22, 2821-2830.	4.6	28
149	The EURARE Project: Development of a Sustainable Exploitation Scheme for Europeâ€™s Rare Earth Ore Deposits. Johnson Matthey Technology Review, 2017, 61, 142-153.	0.5	27
150	Efficient separation of rare earths recovered by a supported ionic liquid from bauxite residue leachate. RSC Advances, 2018, 8, 11886-11893.	1.7	27
151	Separation of samarium and europium by solvent extraction with an undiluted quaternary ammonium ionic liquid: towards high-purity medical samarium-153. RSC Advances, 2018, 8, 20077-20086.	1.7	27
152	Enhancing Metal Separations Using Hydrophilic Ionic Liquids and Analogues as Complexing Agents in the More Polar Phase of Liquidâ€“Liquid Extraction Systems. Industrial & Engineering Chemistry Research, 2019, 58, 15628-15636.	1.8	27
153	Europium(iii)-doped liquid-crystalline physical gels. Journal of Materials Chemistry, 2010, 20, 8571.	6.7	26
154	Decarboxylation of a Wide Range of Amino Acids with Electrogenerated Hypobromite. European Journal of Organic Chemistry, 2014, 2014, 6649-6652.	1.2	26
155	Magnetomigration of rare-earth ions in inhomogeneous magnetic fields. Physical Chemistry Chemical Physics, 2016, 18, 27342-27350.	1.3	26
156	Low-Temperature Oxidation of Fine UO₂ Powders: A Process of Nanosized Domain Development. Inorganic Chemistry, 2016, 55, 3915-3927.	1.9	26
157	Solvent Extraction of Am(III), Cm(III), and Ln(III) Ions from Simulated Highly Active Raffinate Solutions by TODGA Diluted in Aliquat-336 Nitrate Ionic Liquid. Solvent Extraction and Ion Exchange, 2018, 36, 519-541.	0.8	26
158	Combined multi-step precipitation and supported ionic liquid phase chromatography for the recovery of rare earths from leach solutions of bauxite residues. Hydrometallurgy, 2018, 180, 229-235.	1.8	26
159	Electrodeposition of indium from the ionic liquid trihexyl(tetradecyl)phosphonium chloride. Green Chemistry, 2019, 21, 1517-1530.	4.6	26
160	Development of a solvometallurgical process for the separation of yttrium and europium by Cyanex 923 from ethylene glycol solutions. Separation and Purification Technology, 2020, 235, 116193.	3.9	26
161	Selective Roasting of Ndâ€“Feâ€™B Permanent Magnets as a Pretreatment Step for Intensified Leaching with an Ionic Liquid. Journal of Sustainable Metallurgy, 2020, 6, 91-102.	1.1	26
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