Koen Binnemans

List of Publications by Year in descending order

568 papers	37,979 citations	3158 92 h-index	4773 169 g-index
589 all docs	589 docs citations	589 times ranked	26124 citing authors

#	Article	IF	Citations
1	Lanthanide-Based Luminescent Hybrid Materials. Chemical Reviews, 2009, 109, 4283-4374.	47.7	2,989
2	Interpretation of europium(III) spectra. Coordination Chemistry Reviews, 2015, 295, 1-45.	18.8	2,104
3	Recycling of rare earths: a critical review. Journal of Cleaner Production, 2013, 51, 1-22.	9.3	1,704
4	Ionic Liquid Crystals. Chemical Reviews, 2005, 105, 4148-4204.	47.7	1,072
5	Ionic Liquid Crystals: Versatile Materials. Chemical Reviews, 2016, 116, 4643-4807.	47.7	617
6	Lanthanides and Actinides in Ionic Liquids. Chemical Reviews, 2007, 107, 2592-2614.	47.7	616
7	Lanthanide-Containing Liquid Crystals and Surfactants. Chemical Reviews, 2002, 102, 2303-2346.	47.7	491
8	Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. Journal of Cleaner Production, 2015, 99, 17-38.	9.3	463
9	Task-Specific Ionic Liquid for Solubilizing Metal Oxides. Journal of Physical Chemistry B, 2006, 110, 20978-20992.	2.6	412
10	Leaching of rare earths from bauxite residue (red mud). Minerals Engineering, 2015, 76, 20-27.	4.3	368
11	REE Recovery from End-of-Life NdFeB Permanent Magnet Scrap: A Critical Review. Journal of Sustainable Metallurgy, 2017, 3, 122-149.	2.3	365
12	Chapter 167 Spectral intensities of f-f transitions. Fundamental Theories of Physics, 1998, , 101-264.	0.3	331
13	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
14	Rare-earth beta-diketonates. Fundamental Theories of Physics, 2005, 35, 107-272.	0.3	323
15	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.	9.0	312
16	Chapter 155 Rationalization of crystal-field parametrization. Fundamental Theories of Physics, 1996, , 121-283.	0.3	294
17	Rare-Earth-Containing Magnetic Liquid Crystals. Journal of the American Chemical Society, 2000, 122, 4335-4344.	13.7	252
18	Purification of imidazolium ionic liquids for spectroscopic applications. Chemical Physics Letters, 2005, 415, 131-136.	2.6	240

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19	Carboxyl-Functionalized Task-Specific Ionic Liquids for Solubilizing Metal Oxides. Inorganic Chemistry, 2008, 47, 9987-9999.	4.0	232
20	Luminescent Ionogels Based on Europium-Doped Ionic Liquids Confined within Silica-Derived Networks. Chemistry of Materials, 2006, 18, 5711-5715.	6.7	231
21	Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review. Journal of Sustainable Metallurgy, 2016, 2, 365-386.	2.3	231
22	Choline Saccharinate and Choline Acesulfamate:Â Ionic Liquids with Low Toxicities. Journal of Physical Chemistry B, 2007, 111, 5254-5263.	2.6	224
23	Immobilization of molecular catalysts in supported ionic liquid phases. Dalton Transactions, 2010, 39, 8377.	3.3	223
24	Thin Films of Highly Luminescent Lanthanide Complexes Covalently Linked to an Organicâ^'Inorganic Hybrid Material via 2-Substituted Imidazo[4,5-f]-1,10-phenanthroline Groups. Chemistry of Materials, 2005, 17, 5194-5201.	6.7	217
25	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.	9.0	202
26	Biobased Ionic Liquids: Solvents for a Green Processing Industry?. ACS Sustainable Chemistry and Engineering, 2016, 4, 2917-2931.	6.7	195
27	Homogeneous Liquidâ€“Liquid Extraction of Metal Ions with a Functionalized Ionic Liquid. Journal of Physical Chemistry Letters, 2013, 4, 1659-1663.	4.6	194
28	Rare Earths and the Balance Problem: How to Deal with Changing Markets?. Journal of Sustainable Metallurgy, 2018, 4, 126-146.	2.3	194
29	Covalent Coupling of Luminescent Tris(2-thenoyltrifluoroacetonato)lanthanide(III) Complexes on a Merrifield Resin. Chemistry of Materials, 2005, 17, 2148-2154.	6.7	193
30	Photostability of a highly luminescent europium Î²-diketonate complex in imidazolium ionic liquids. Chemical Communications, 2005, , 4354.	4.1	190
31	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.	9.0	189
32	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.	9.0	188
33	Anionic Rare-Earth Thiocyanate Complexes as Building Blocks for Low-Melting Metal-Containing Ionic Liquids. Journal of the American Chemical Society, 2006, 128, 13658-13659.	13.7	183
34	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.	9.0	181
35	Degradation of Deep-Eutectic Solvents Based on Choline Chloride and Carboxylic Acids. ACS Sustainable Chemistry and Engineering, 2019, 7, 11521-11528.	6.7	179
36	Solvometallurgy: An Emerging Branch of Extractive Metallurgy. Journal of Sustainable Metallurgy, 2017, 3, 570-600.	2.3	178

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37	Temperature dependence of the electrical conductivity of imidazolium ionic liquids. Journal of Chemical Physics, 2008, 128, 064509.	3.0	169
38	Electrochemical decomposition of choline chloride based ionic liquid analogues. Green Chemistry, 2009, 11, 1357.	9.0	169
39	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.	10.3	167
40	On the color of the trivalent lanthanide ions. Chemical Physics Letters, 1995, 235, 163-174.	2.6	166
41	Adsorption and chromatographic separation of rare earths with EDTA- and DTPA-functionalized chitosan biopolymers. Journal of Materials Chemistry A, 2014, 2, 1530-1540.	10.3	166
42	Adsorption performance of functionalized chitosanâ€“silica hybrid materials toward rare earths. Journal of Materials Chemistry A, 2014, 2, 19415-19426.	10.3	151
43	Electrocarboxylation: towards sustainable and efficient synthesis of valuable carboxylic acids. Beilstein Journal of Organic Chemistry, 2014, 10, 2484-2500.	2.2	150
44	From NdFeB magnets towards the rare-earth oxides: a recycling process consuming only oxalic acid. RSC Advances, 2014, 4, 64099-64111.	3.6	149
45	Solvometallurgical recovery of cobalt from lithium-ion battery cathode materials using deep-eutectic solvents. Green Chemistry, 2020, 22, 4210-4221.	9.0	149
46	Selective Uptake of Rare Earths from Aqueous Solutions by EDTA-Functionalized Magnetic and Nonmagnetic Nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 4980-4988.	8.0	148
47	Luminescence of metallomesogens in the liquid crystal state. Journal of Materials Chemistry, 2009, 19, 448-453.	6.7	147
48	Perspectives for the recovery of rare earths from end-of-life fluorescent lamps. Journal of Rare Earths, 2014, 32, 195-200.	4.8	147
49	Imidazolium Ionic Liquid Crystals with Pendant Mesogenic Groups. Chemistry of Materials, 2008, 20, 157-168.	6.7	143
50	Ionic liquid as plasticizer for europium(iii)-doped luminescent poly(methyl methacrylate) films. Physical Chemistry Chemical Physics, 2010, 12, 1879-1885.	2.8	143
51	Lanthanide-doped luminescent ionogels. Dalton Transactions, 2009, , 298-306.	3.3	142
52	Hydrophobic ionic liquids with strongly coordinating anions. Chemical Communications, 2010, 46, 234-236.	4.1	142
53	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.	9.0	142
54	A Hybrid Supercapacitor based on Porous Carbon and the Metalâ€Organic Framework MILâ€100(Fe). ChemElectroChem, 2014, 1, 1182-1188.	3.4	141

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55	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.	2.6	140
56	Rare Earths and the Balance Problem. Journal of Sustainable Metallurgy, 2015, 1, 29-38.	2.3	140
57	Selective recovery of rare earths from bauxite residue by combination of sulfation, roasting and leaching. Minerals Engineering, 2016, 92, 151-159.	4.3	140
58	On the electrochemical deposition of metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 3914-3925.	10.3	138
59	Luminescent terbium-containing metalâ€“organic framework films: new approaches for the electrochemical synthesis and application as detectors for explosives. Chemical Communications, 2014, 50, 12545-12547.	4.1	136
60	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.	30.8	134
61	Visible and Near-Infrared Emission by Samarium(III)-Containing Ionic Liquid Mixtures. Inorganic Chemistry, 2009, 48, 3018-3026.	4.0	131
62	Spectroscopic properties of trivalent lanthanide ions in fluorophosphate glasses. Journal of Non-Crystalline Solids, 1998, 238, 11-29.	3.1	128
63	Pyrrolidinium Ionic Liquid Crystals. Chemistry - A European Journal, 2009, 15, 656-674.	3.3	127
64	Polarized Luminescence from Aligned Samples of Nematogenic Lanthanide Complexes. Advanced Materials, 2008, 20, 252-257.	21.0	126
65	Smelting of Bauxite Residue (Red Mud) in View of Iron and Selective Rare Earths Recovery. Journal of Sustainable Metallurgy, 2016, 2, 28-37.	2.3	126
66	Rare-Earth Quinolinates:Â Infrared-Emitting Molecular Materials with a Rich Structural Chemistry. Inorganic Chemistry, 2004, 43, 8461-8469.	4.0	124
67	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.	3.7	124
68	Influence of dipicolinate ligands on the spectroscopic properties of europium(III) in solution. Chemical Physics Letters, 1997, 266, 297-302.	2.6	121
69	Extraction of rare earths from bauxite residue (red mud) by dry digestion followed by water leaching. Minerals Engineering, 2018, 119, 82-92.	4.3	117
70	Intense near-infrared luminescence of anhydrous lanthanide(III) iodides in an imidazolium ionic liquid. Chemical Physics Letters, 2005, 402, 75-79.	2.6	116
71	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.	3.3	115
72	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.	10.8	114

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73	Design of High Coordination Number Metallomesogens by Decoupling of the Complex-Forming and Mesogenic Groups:â€‰ Nematic and Lamello-Columnar Mesophases. Chemistry of Materials, 2005, 17, 6589-6598.	6.7	113
74	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.	3.7	113
75	Speciation of Uranyl Complexes in Ionic Liquids by Optical Spectroscopy. Inorganic Chemistry, 2007, 46, 11335-11344.	4.0	112
76	Rare-Earth Economics: The Balance Problem. Jom, 2013, 65, 846-848.	1.9	112
77	Speciation of Copper(II) Complexes in an Ionic Liquid Based on Choline Chloride and in Choline Chloride/Water Mixtures. Inorganic Chemistry, 2012, 51, 4972-4981.	4.0	111
78	Near-Infrared Luminescence of Lanthanide Calcein and Lanthanide Dipicolinate Complexes Doped into a Silicaâ^'PEG Hybrid Material. Chemistry of Materials, 2004, 16, 1531-1535.	6.7	110
79	Selective extraction of metals using ionic liquids for nickel metal hydride battery recycling. Green Chemistry, 2014, 16, 4595-4603.	9.0	110
80	Antimony Recovery from End-of-Life Products and Industrial Process Residues: A Critical Review. Journal of Sustainable Metallurgy, 2016, 2, 79-103.	2.3	110
81	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.	3.6	107
82	Near-infrared photoluminescence of lanthanide-doped liquid crystals. Journal of Materials Chemistry, 2003, 13, 1520-1522.	6.7	104
83	Temperature-Driven Mixing-Demixing Behavior of Binary Mixtures of the Ionic Liquid Choline Bis(trifluoromethylsulfonyl)imide and Water. Journal of Physical Chemistry B, 2009, 113, 1429-1437.	2.6	102
84	Investigation of thermal properties of glassy itraconazole: identification of a monotropic mesophase. Thermochimica Acta, 2001, 376, 175-181.	2.7	100
85	Piperidinium, Piperazinium and Morpholinium Ionic Liquid Crystals. Journal of Physical Chemistry B, 2009, 113, 9506-9511.	2.6	100
86	A continuous ionic liquid extraction process for the separation of cobalt from nickel. Green Chemistry, 2013, 15, 3160.	9.0	100
87	Influence of the ionic liquid cation on the solvent extraction of trivalent rare-earth ions by mixtures of Cyanex 923 and ionic liquids. Dalton Transactions, 2015, 44, 1379-1387.	3.3	100
88	p-Toluenesulfonic Acid-Based Deep-Eutectic Solvents for Solubilizing Metal Oxides. ACS Sustainable Chemistry and Engineering, 2019, 7, 3940-3948.	6.7	100
89	Copper(I)â€Containing Ionic Liquids for Highâ€Rate Electrodeposition. Chemistry - A European Journal, 2011, 17, 5054-5059.	3.3	99
90	Room-temperature magnetic anisotropy of lanthanide complexes: A model study for various coordination polyhedra. Journal of Chemical Physics, 2002, 116, 4673-4685.	3.0	98

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91	Synthesis, Spectroscopy, Crystal Structure, Electrochemistry, and Quantum Chemical and Molecular Dynamics Calculations of a 3-Anilino Difluoroboron Dipyrromethene Dye. Journal of Physical Chemistry A, 2009, 113, 439-447.	2.5	98
92	Liquidâ€“liquid extraction of neodymium(iii) by dialkylphosphate ionic liquids from acidic medium: the importance of the ionic liquid cation. Physical Chemistry Chemical Physics, 2013, 15, 16533.	2.8	98
93	Recovery of scandium from leachates of Greek bauxite residue by adsorption on functionalized chitosanâ€“silica hybrid materials. Green Chemistry, 2016, 18, 2005-2013.	9.0	95
94	Synthesis, spectral and mesomorphic properties of octa-alkoxy substituted phthalocyanine ligands and lanthanide complexes. Materials Science and Engineering C, 2001, 18, 229-238.	7.3	93
95	Polynuclear Metal Complexes Obtained from the Task-Specific Ionic Liquid Betainium Bistriflimide. Crystal Growth and Design, 2008, 8, 1353-1363.	3.0	93
96	Imidazo[4,5-‹i›f‹/i›]-1,10-phenanthrolines: Versatile Ligands for the Design of Metallomesogens. Chemistry of Materials, 2008, 20, 1278-1291.	6.7	91
97	Speciation of Rareâ€Earth Metal Complexes in Ionic Liquids: A Multipleâ€Technique Approach. Chemistry - A European Journal, 2009, 15, 1449-1461.	3.3	91
98	Uranyl Complexes of Carboxyl-Functionalized Ionic Liquids. Inorganic Chemistry, 2010, 49, 3351-3360.	4.0	89
99	Hydrogen Bonding Versus van der Waals Interactions: Competitive Influence of Noncovalent Interactions on 2D Selfâ€Assembly at the Liquidâ€“Solid Interface. Chemistry - A European Journal, 2010, 16, 14447-14458.	3.3	88
100	Accurate lattice parameter measurements of stoichiometric uranium dioxide. Journal of Nuclear Materials, 2015, 459, 135-142.	2.7	88
101	Ionic liquids as solvents for near-infrared emitting lanthanide complexes. Chemical Physics Letters, 2004, 395, 306-310.	2.6	87
102	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.	4.1	87
103	Imidazolium Ionic Liquids as Solvents for Cerium(IV)-Mediated Oxidation Reactions. Journal of Organic Chemistry, 2007, 72, 517-524.	3.2	86
104	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.	4.3	86
105	Rare-Earth Complexes of Ferrocene-Containing Ligands:â€‰ Visible-Light Excitable Luminescent Materials. Inorganic Chemistry, 2007, 46, 5302-5309.	4.0	85
106	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.	7.9	85
107	Juddâ€“Ofelt intensity parameters of trivalent lanthanide ions in a NaPO3â€“BaF2 based fluorophosphate glass. Journal of Alloys and Compounds, 1999, 283, 59-65.	5.5	81
108	Structure and Mesomorphism of Silver Alkanoates. Chemistry of Materials, 2004, 16, 2021-2027.	6.7	79

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109	Separation of rare earths from transition metals by liquidâ€“liquid extraction from a molten salt hydrate to an ionic liquid phase. Dalton Transactions, 2014, 43, 3186-3195.	3.3	78
110	Structure and Mesomorphic Behavior of Alkoxy-Substituted Bis(phthalocyaninato)lanthanide(III) Complexes. Chemistry of Materials, 2003, 15, 3930-3938.	6.7	77
111	Narrow band photoluminescence of europium-doped liquid crystals. Journal of Materials Chemistry, 2002, 12, 3374-3376.	6.7	73
112	Visible light sensitisation of europium(iii) luminescence in a 9-hydroxyphenal-1-one complex. Chemical Communications, 2005, , 590.	4.1	73
113	Gadolinium(iii) complexes of mono- and diethyl esters of monophosphonic acid analogue of DOTA as potential MRI contrast agents: solution structures and relaxometric studies. Dalton Transactions, 2007, , 493-501.	3.3	72
114	Homogeneous liquidâ€“liquid extraction of neodymium(<scp>iii</scp>) by choline hexafluoroacetylacetonate in the ionic liquid choline bis(trifluoromethylsulfonyl)imide. Dalton Transactions, 2014, 43, 11566-11578.	3.3	72
115	Selective Extraction of Metals from Chloride Solutions with the Tetraoctylphosphonium Oleate Ionic Liquid. Industrial & Engineering Chemistry Research, 2015, 54, 5149-5158.	3.7	72
116	Samarium/cobalt separation by solvent extraction with undiluted quaternary ammonium ionic liquids. Separation and Purification Technology, 2019, 210, 209-218.	7.9	72
117	Spectroscopic properties of Gd3+-doped fluorozirconate glass. Chemical Physics Letters, 1997, 280, 333-338.	2.6	71
118	Separation of rare earths by split-anion extraction. Hydrometallurgy, 2015, 156, 206-214.	4.3	70
119	A simple model for crystal field splittings of the 7F1 and 5D1 energy levels of Eu3+. Chemical Physics Letters, 1995, 245, 75-78.	2.6	69
120	Growth of sputter-deposited gold nanoparticles in ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 13565.	2.8	69
121	Purification of indium by solvent extraction with undiluted ionic liquids. Green Chemistry, 2016, 18, 4116-4127.	9.0	69
122	Dual-doped mesoporous carbon synthesized by a novel nanocasting method with superior catalytic activity for oxygen reduction. Nano Energy, 2016, 26, 131-138.	16.0	68
123	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.	2.0	67
124	Pyrrolidinium Ionic Liquid Crystals with Pendant Mesogenic Groups. Langmuir, 2009, 25, 5881-5897.	3.5	66
125	Separation of rare earths and nickel by solvent extraction with two mutually immiscible ionic liquids. RSC Advances, 2014, 4, 5753.	3.6	66
126	Solvent Extraction of Scandium(III) by an Aqueous Biphasic System with a Nonfluorinated Functionalized Ionic Liquid. Industrial & Engineering Chemistry Research, 2015, 54, 8988-8996.	3.7	66

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127	Strong erbium luminescence in the near-infrared telecommunication window. Chemical Physics Letters, 2004, 397, 447-450.	2.6	65
128	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.	2.3	65
129	Hyper-Rayleigh scattering in the Fourier domain for higher precision: Correcting for multiphoton fluorescence with demodulation and phase data. Review of Scientific Instruments, 2001, 72, 3215-3220.	1.3	64
130	Mixed Copperâ€“Lanthanide Metallomesogens. Chemistry - A European Journal, 2002, 8, 1101.	3.3	64
131	Strong luminescence of rare earth compounds in ionic liquids: Luminescent properties of lanthanide(III) iodides in the ionic liquid 1-dodecyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. Journal of Alloys and Compounds, 2006, 418, 204-208.	5.5	64
132	Reductive Splitting of Cellulose in the Ionic Liquid 1â€Butylâ€3â€Methylimidazolium Chloride. ChemSusChem, 2010, 3, 91-96.	6.8	64
133	Influence of the anion on the electrical conductivity and glass formation of 1-butyl-3-methylimidazolium ionic liquids. Journal of Chemical Physics, 2010, 133, 034503.	3.0	64
134	Thermochromism and switchable paramagnetism of cobalt(<scp>ii</scp>) in thiocyanate ionic liquids. Dalton Transactions, 2015, 44, 11286-11289.	3.3	63
135	Separation of cobalt and nickel using a thermomorphic ionic-liquid-based aqueous biphasic system. Chemical Communications, 2015, 51, 15932-15935.	4.1	63
136	Metal Recovery from Spent Samariumâ€“Cobalt Magnets Using a Trichloride Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2019, 7, 2578-2584.	6.7	63
137	Stability of sputter-deposited gold nanoparticles in imidazolium ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 5662.	2.8	62
138	Lignin solubility in nonâ€imidazolium ionic liquids. Journal of Chemical Technology and Biotechnology, 2015, 90, 1821-1826.	3.2	62
139	3,5-Dianilino Substituted Difluoroboron Dipyrromethene: Synthesis, Spectroscopy, Photophysics, Crystal Structure, Electrochemistry, and Quantum-Chemical Calculations. Journal of Physical Chemistry C, 2009, 113, 11731-11740.	3.1	61
140	Ionic liquids with trichloride anions for oxidative dissolution of metals and alloys. Chemical Communications, 2018, 54, 475-478.	4.1	61
141	Structure and Mesomorphism of Neodymium(III) Alkanoates. Inorganic Chemistry, 2000, 39, 5938-5945.	4.0	60
142	Synthesis, Mesomorphism, and Unusual Magnetic Behaviour of Lanthanide Complexes with Perfluorinated Counterions. Chemistry - A European Journal, 2001, 7, 99-105.	3.3	60
143	Reduction of the transition temperatures in mesomorphic lanthanide complexes by the exchange of counter-ions. Journal of Materials Chemistry, 1998, 8, 1551-1553.	6.7	59
144	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.	2.8	59

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145	Gadolinium DTPA-Monoamide Complexes Incorporated into Mixed Micelles as Possible MRI Contrast Agents. European Journal of Inorganic Chemistry, 2004, 2004, 3538-3543.	2.0	59
146	Cobalt(II) Complexes of Nitrileâ€Functionalized Ionic Liquids. Chemistry - A European Journal, 2010, 16, 1849-1858.	3.3	59
147	Separation of Carbon Dioxide from Nitrogen or Methane by Supported Ionic Liquid Membranes (SILMs): Influence of the Cation Charge of the Ionic Liquid. Journal of Physical Chemistry B, 2013, 117, 15131-15140.	2.6	59
148	Sulfonic acid functionalized ionic liquids for dissolution of metal oxides and solvent extraction of metal ions. Chemical Communications, 2015, 51, 9006-9009.	4.1	59
149	On the magnetic anisotropy of lanthanide-containing metallomesogens. Journal of Chemical Physics, 2000, 113, 10293-10303.	3.0	58
150	Nitrile-Functionalized Pyridinium, Pyrrolidinium, and Piperidinium Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 8424-8438.	2.6	58
151	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.	2.0	57
152	Acid-Stable Magnetic Coreâ€“Shell Nanoparticles for the Separation of Rare Earths. Industrial & Engineering Chemistry Research, 2014, 53, 15222-15229.	3.7	57
153	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.	7.9	57
154	Optical properties of -doped fluorophosphate glasses. Journal of Physics Condensed Matter, 1998, 10, 7231-7241.	1.8	56
155	Lanthanide-Containing Metallomesogens with Low Transition Temperatures. Chemistry of Materials, 2006, 18, 3698-3704.	6.7	56
156	Separation of cobalt and nickel by solvent extraction with two mutually immiscible ionic liquids. Physical Chemistry Chemical Physics, 2013, 15, 9663.	2.8	56
157	Trihalide ionic liquids as non-volatile oxidizing solvents for metals. Green Chemistry, 2018, 20, 3327-3338.	9.0	56
158	Enhancing rare-earth recovery from lamp phosphor waste. Hydrometallurgy, 2019, 187, 38-44.	4.3	56
159	Ethylenediaminetriacetic Acid-Functionalized Activated Carbon for the Adsorption of Rare Earths from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2018, 57, 1487-1497.	3.7	55
160	High current density electrodeposition from silver complex ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 1706-1715.	2.8	54
161	Ionic liquids as solvents for PPTA oligomers. Green Chemistry, 2016, 18, 1639-1652.	9.0	54
162	Nanostructured composites of one-dimensional TiO2 and reduced graphene oxide for efficient dye-sensitized solar cells. Journal of Alloys and Compounds, 2017, 697, 132-137.	5.5	54

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