Koen Binnemans

List of Publications by Year in descending order

567 papers	37,979 citations	3149 92 h-index	4750 169 g-index
589 all docs	589 docs citations	589 times ranked	26124 citing authors

#	Article	IF	Citations
1	Hydrolysis of Uranylâ€, Ndâ€, Ceâ€ions and their Mixtures by Thermal Decomposition of Urea. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	4
2	Liquid-liquid mass transfer in microfluidic reactors: Assumptions and realities of non-ideal systems. Chemical Engineering Science, 2022, 248, 117232.	1.9	5
3	Electrochemical oxidation of terbium(III) in aqueous media: influence of supporting electrolyte on oxidation potential and stability. Journal of Applied Electrochemistry, 2022, 52, 583-593.	1.5	4
4	Recovery of copper, zinc and lead from photovoltaic panel residue. RSC Advances, 2022, 12, 2351-2360.	1.7	9
5	Continuous Counter-Current Ionic Liquid Metathesis in Mixer-Settlers: Efficiency Analysis and Comparison with Batch Operation. ACS Sustainable Chemistry and Engineering, 2022, 10, 946-955.	3.2	4
6	Recovery of cobalt from lithium-ion battery cathode material by combining solvoleaching and solvent extraction. Green Chemistry, 2022, 24, 2839-2852.	4.6	24
7	Separation of heavy rare-earth elements by non-aqueous solvent extraction: Flowsheet development and mixer-settler tests. Separation and Purification Technology, 2022, 290, 120882.	3.9	20
8	Combined Hydroâ€“Solvoâ€“Bioleaching Approach toward the Valorization of a Sulfidic Copper Mine Tailing. Industrial & Engineering Chemistry Research, 2022, 61, 684-693.	1.8	1
9	Solvometallurgical Process for the Recovery of Tungsten from Scheelite. Industrial & Engineering Chemistry Research, 2022, 61, 754-764.	1.8	8
10	Separation of Rare Earths and Transition Metals Using Ionic-Liquid-Based Aqueous Biphasic Systems. Industrial & Engineering Chemistry Research, 2022, 61, 5927-5935.	1.8	5
11	Gamma radiolytic stability of the novel modified diglycolamide 2,2â€²-oxybis(N,N-didecylpropanamide) (mTDDGA) for grouped actinide extraction. RSC Advances, 2022, 12, 12416-12426.	1.7	9
12	Effect of polar molecular organic solvents on non-aqueous solvent extraction of rare-earth elements. Separation and Purification Technology, 2022, 294, 121197.	3.9	9
13	Conventional versus microwave-assisted roasting of sulfidic tailings: Mineralogical transformation and metal leaching behavior. Minerals Engineering, 2022, 183, 107587.	1.8	14
14	One-Step Solvometallurgical Process for Purification of Lithium Chloride to Battery Grade. Journal of Sustainable Metallurgy, 2022, 8, 893-899.	1.1	7
15	Separation of cobalt and nickel via solvent extraction with Cyanex-272: Batch experiments and comparison of mixer-settlers and an agitated column as contactors for continuous counter-current extraction. Separation and Purification Technology, 2022, 296, 121326.	3.9	21
16	Effect of dilution on the performance of ionic liquids in milliflow solvent extraction applications: Towards integration of extraction, scrubbing and stripping operations with in-line membrane-based phase separation. Separation and Purification Technology, 2022, 297, 121519.	3.9	3
17	Solvometallurgical process for the recovery of rare-earth elements from Ndâ€“Feâ€“B magnets. Separation and Purification Technology, 2021, 258, 117800.	3.9	23
18	Chromatographic separation of rare earths from aqueous and ethanolic leachates of NdFeB and SmCo magnets by a supported ionic liquid phase. RSC Advances, 2021, 11, 8207-8217.	1.7	8

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19	Removal of Cadmium, Zinc, and Manganese from Dilute Aqueous Solutions by Foam Separation. Journal of Sustainable Metallurgy, 2021, 7, 78-86.	1.1	6
20	Electrodeposition of neodymium and dysprosium from organic electrolytes. Physical Chemistry Chemical Physics, 2021, 23, 9070-9079.	1.3	17
21	Synthesis of polyaramids in Î³-valerolactone-based organic electrolyte solutions. Green Chemistry, 2021, 23, 1228-1239.	4.6	6
22	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
23	Electrochemical behavior and electrodeposition of gallium in 1,2-dimethoxyethane-based electrolytes. Physical Chemistry Chemical Physics, 2021, 23, 15492-15502.	1.3	6
24	Ethylammonium nitrate enhances the extraction of transition metal nitrates by triâ€nâ€butyl phosphate (<scp>TBP</scp>). AICHE Journal, 2021, 67, e17213.	1.8	6
25	Opposite selectivities of triâ€nâ€butyl phosphate and Cyanex 923 in solvent extraction of lithium and magnesium. AICHE Journal, 2021, 67, e17219.	1.8	17
26	Oxidative Dissolution of Metals in Organic Solvents. Chemical Reviews, 2021, 121, 4506-4530.	23.0	52
27	Antimony Recovery from Lead-Rich Dross of Lead Smelter and Conversion into Antimony Oxide Chloride (Sb₄O₅Cl₂). ACS Sustainable Chemistry and Engineering, 2021, 9, 5074-5084.	3.2	6
28	Rare-earth recycling needs market intervention. Nature Reviews Materials, 2021, 6, 459-461.	23.3	36
29	Recovery of Copper from Ammoniacal Leachates by Ion Flotation. Journal of Sustainable Metallurgy, 2021, 7, 1552-1564.	1.1	10
30	Thermodynamic Modeling of Salting Effects in Solvent Extraction of Cobalt(II) from Chloride Media by the Basic Extractant Methyltrioctylammonium Chloride. ACS Omega, 2021, 6, 11355-11366.	1.6	6
31	Determination of Chlorides in Ionic Liquids by Wavelength Dispersive X-ray Fluorescence Spectrometry. ACS Omega, 2021, 6, 13620-13625.	1.6	5
32	Non-equilibrium solvent extraction in milliflow reactors: Precious and base metal separations with undiluted ionic liquids. Separation and Purification Technology, 2021, 265, 118490.	3.9	10
33	Mechanism of Ferric Chloride Facilitating Efficient Lithium Extraction from Magnesium-Rich Brine with Tri-n-butyl Phosphate. Industrial & Engineering Chemistry Research, 2021, 60, 8538-8547.	1.8	15
34	Integrated Process for Recovery of Rare-Earth Elements from Lamp Phosphor Waste Using Methanesulfonic Acid. Industrial & Engineering Chemistry Research, 2021, 60, 10319-10326.	1.8	13
35	N-butyl pyrrolidone/ionic liquid mixtures as benign alternative solvents to N-methyl pyrrolidone for the synthesis of polyaramids. Materials Today Communications, 2021, 29, 102843.	0.9	2
36	Closed-loop process for recovery of metals from NdFeB magnets using a trichloride ionic liquid. Separation and Purification Technology, 2021, 275, 119158.	3.9	12

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37	Selective extraction of trivalent actinides using CyMe₄BTPhen in the ionic liquid Aliquat-336 nitrate. RSC Advances, 2021, 11, 6014-6021.	1.7	9
38	Dissolution behavior of precious metals and selective palladium leaching from spent automotive catalysts by trihalide ionic liquids. RSC Advances, 2021, 11, 10110-10120.	1.7	18
39	Solvometallurgical Recovery of Platinum Group Metals from Spent Automotive Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 337-350.	3.2	44
40	Hardâ€“Soft Interactions in Solvent Extraction with Basic Extractants: Comparing Zinc and Cadmium Halides. ACS Omega, 2021, 6, 27924-27935.	1.6	6
41	Dosimetry and methodology of gamma irradiation for degradation studies on solvent extraction systems. Radiochimica Acta, 2021, 109, 61-72.	0.5	7
42	Nonaqueous Solvent Extraction for Enhanced Metal Separations: Concept, Systems, and Mechanisms. Industrial & Engineering Chemistry Research, 2021, 60, 17285-17302.	1.8	24
43	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
44	Supported ionic liquid phases for the separation of samarium and europium in nitrate media: Towards purification of medical samarium-153. Separation and Purification Technology, 2020, 232, 115939.	3.9	13
45	Recovery of valuable metals from NdFeB magnets by mechanochemically assisted ferric sulfate leaching. Hydrometallurgy, 2020, 191, 105154.	1.8	21
46	The conversion of ammonium uranate prepared via sol-gel synthesis into uranium oxides. Nuclear Engineering and Technology, 2020, 52, 1013-1021.	1.1	13
47	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
48	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
49	Solvometallurgical process for extraction of copper from chalcopyrite and other sulfidic ore minerals. Green Chemistry, 2020, 22, 417-426.	4.6	42
50	Alkali baking and solvometallurgical leaching of NdFeB magnets. Hydrometallurgy, 2020, 191, 105213.	1.8	26
51	Solvent Extraction Studies for the Separation of Trivalent Actinides from Lanthanides with a Triazole-functionalized 1,10-phenanthroline Extractant. Solvent Extraction and Ion Exchange, 2020, 38, 719-734.	0.8	12
52	Selective Removal of Zinc from BOF Sludge by Leaching with Mixtures of Ammonia and Ammonium Carbonate. Journal of Sustainable Metallurgy, 2020, 6, 680-690.	1.1	21
53	Structural changes of Nd- and Ce-doped ammonium diuranate microspheres during the conversion to U1â'LnO2Â±. Journal of Nuclear Materials, 2020, 542, 152454.	1.3	2
54	Separation of precious metals by split-anion extraction using water-saturated ionic liquids. Green Chemistry, 2020, 22, 8375-8388.	4.6	41

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55	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
56	Enhancing the solubility of 1,4-diaminoanthraquinones in electrolytes for organic redox flow batteries through molecular modification. RSC Advances, 2020, 10, 39601-39610.	1.7	9
57	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
58	Stability of ionic liquids in BrÃ¸nsted-basic media. Green Chemistry, 2020, 22, 5225-5252.	4.6	38
59	Separation of Scandium from Hydrochloric Acidâ€“Ethanol Leachate of Bauxite Residue by a Supported Ionic Liquid Phase. Industrial & Engineering Chemistry Research, 2020, 59, 15332-15342.	1.8	6
60	Selection criteria of diluents of tri-n-butyl phosphate for recovering neodymium(III) from nitrate solutions. Chemical Engineering Research and Design, 2020, 161, 304-311.	2.7	7
61	Non-aqueous solvent extraction of indium from an ethylene glycol feed solution by the ionic liquid Cyphos IL 101: speciation study and continuous counter-current process in mixerâ€“settlers. RSC Advances, 2020, 10, 24595-24612.	1.7	19
62	Solvent Extraction of Gold(III) with Diethyl Carbonate. ACS Sustainable Chemistry and Engineering, 2020, 8, 13713-13723.	3.2	34
63	Ammoniacal Solvoleaching of Copper from High-Grade Chrysocolla. Journal of Sustainable Metallurgy, 2020, 6, 589-598.	1.1	6
64	Indium electrodeposition from indium(<scp>iii</scp>) methanesulfonate in DMSO. Physical Chemistry Chemical Physics, 2020, 22, 24526-24534.	1.3	8
65	Cation Effect of Chloride Salting Agents on Transition Metal Ion Hydration and Solvent Extraction by the Basic Extractant Methyltrioctylammonium Chloride. Inorganic Chemistry, 2020, 59, 13442-13452.	1.9	12
66	Separation of iron(<scp>iii</scp>), zinc(<scp>ii</scp>) and lead(<scp>ii</scp>) from a choline chlorideâ€“ethylene glycol deep eutectic solvent by solvent extraction. RSC Advances, 2020, 10, 33161-33170.	1.7	18
67	Î³-Valerolactone-based organic electrolyte solutions: a benign approach to polyaramid dissolution and processing. Green Chemistry, 2020, 22, 6127-6136.	4.6	8
68	Enhanced Separation of Neodymium and Dysprosium by Nonaqueous Solvent Extraction from a Polyethylene Glycol 200 Phase Using the Neutral Extractant Cyanex 923. ACS Sustainable Chemistry and Engineering, 2020, 8, 19032-19039.	3.2	21
69	Image analysis data for the study of the reactivity of the phases in Nd-Fe-B magnets etched with HCl-saturated Cyphos IL 101. Data in Brief, 2020, 32, 106203.	0.5	1
70	Reversible electrodeposition and stripping of magnesium from solvate ionic liquidâ€“tetrabutylammonium chloride mixtures. RSC Advances, 2020, 10, 42021-42029.	1.7	5
71	Extraction Behavior and Separation of Precious and Base Metals from Chloride, Bromide, and Iodide Media Using Undiluted Halide Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2020, 8, 8223-8234.	3.2	23
72	Fabrication of Nd- and Ce-doped uranium dioxide microspheres via internal gelation. Journal of Nuclear Materials, 2020, 535, 152128.	1.3	8

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73	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
74	Effects of thiol substitution in deep-eutectic solvents (DESs) as solvents for metal oxides. RSC Advances, 2020, 10, 23484-23490.	1.7	15
75	Dissolution of noble metals in highly concentrated acidic salt solutions. Chemical Communications, 2020, 56, 8230-8232.	2.2	28
76	One-pot synthesis of symmetric imidazolium ionic liquids N,N-disubstituted with long alkyl chains. RSC Advances, 2020, 10, 21071-21081.	1.7	7
77	Solvometallurgical recovery of cobalt from lithium-ion battery cathode materials using deep-eutectic solvents. Green Chemistry, 2020, 22, 4210-4221.	4.6	149
78	Hydration counteracts the separation of lanthanides by solvent extraction. AICHE Journal, 2020, 66, e16545.	1.8	16
79	Physicochemical study of diethylmethylammonium methanesulfonate under anhydrous conditions. Journal of Chemical Physics, 2020, 152, 234504.	1.2	8
80	Highly Soluble 1,4-Diaminoanthraquinone Derivative for Nonaqueous Symmetric Redox Flow Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 3832-3843.	3.2	44
81	Selective recovery of zinc from goethite residue in the zinc industry using deep-eutectic solvents. RSC Advances, 2020, 10, 7328-7335.	1.7	34
82	Extraction of gallium from simulated Bayer process liquor by Kelex 100 dissolved in ionic liquids. Dalton Transactions, 2020, 49, 3532-3544.	1.6	17
83	Selective Extraction of Americium from Curium and the Lanthanides by the Lipophilic Ligand CyMe₄BTPhen Dissolved in Aliquat-336 Nitrate Ionic Liquid. Solvent Extraction and Ion Exchange, 2020, 38, 194-211.	0.8	20
84	Cerium-containing complexes for low-cost, non-aqueous redox flow batteries (RFBs). Journal of Power Sources, 2020, 450, 227634.	4.0	20
85	Gamma Radiolysis of TODGA and CyMe₄BTPhen in the Ionic Liquid Tri-n-Octylmethylammonium Nitrate. Solvent Extraction and Ion Exchange, 2020, 38, 212-235.	0.8	23
86	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
87	Recycling of bonded NdFeB permanent magnets using ionic liquids. Green Chemistry, 2020, 22, 2821-2830.	4.6	28
88	Selective leaching of lead from lead smelter residues using EDTA. RSC Advances, 2020, 10, 42147-42156.	1.7	8
89	Samarium/cobalt separation by solvent extraction with undiluted quaternary ammonium ionic liquids. Separation and Purification Technology, 2019, 210, 209-218.	3.9	72
90	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

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91	Recovery of Gallium, Indium, and Arsenic from Semiconductors Using Tribromide Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 14451-14459.	3.2	42
92	Isolation of molybdenum(<scp>vi</scp>) from simulated leachates of irradiated uranium-aluminum targets using diluted and undiluted sulfate ionic liquids. Green Chemistry, 2019, 21, 3948-3960.	4.6	6
93	Metal Recovery from Spent Samariumâ€“Cobalt Magnets Using a Trichloride Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2019, 7, 2578-2584.	3.2	63
94	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
95	Recovery of Lead and Silver from Zinc Leaching Residue Using Methanesulfonic Acid. ACS Sustainable Chemistry and Engineering, 2019, 7, 19807-19815.	3.2	32
96	Radiochemical processing of nuclear-reactor-produced radiolanthanides for medical applications. Coordination Chemistry Reviews, 2019, 382, 103-125.	9.5	23
97	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
98	Model for Metal Extraction from Chloride Media with Basic Extractants: A Coordination Chemistry Approach. Inorganic Chemistry, 2019, 58, 12289-12301.	1.9	52
99	Effect of Magnetic Susceptibility Gradient on the Magnetomigration of Rare-Earth Ions. Journal of Physical Chemistry C, 2019, 123, 23131-23139.	1.5	8
100	Stability of europium(<scp>ii</scp>) in aqueous nitrate solutions. Dalton Transactions, 2019, 48, 14758-14768.	1.6	15
101	Integrated process for the recovery of yttrium and europium from CRT phosphor waste. RSC Advances, 2019, 9, 1378-1386.	1.7	14
102	Selective rare earth element extraction using high-pressure acid leaching of slags arising from the smelting of bauxite residue. Hydrometallurgy, 2019, 184, 162-174.	1.8	42
103	A Study of the Occurrence of Selected Rare-Earth Elements in Neutralizedâ€“Leached Bauxite Residue and Comparison with Untreated Bauxite Residue. Journal of Sustainable Metallurgy, 2019, 5, 57-68.	1.1	14
104	p-Toluenesulfonic Acid-Based Deep-Eutectic Solvents for Solubilizing Metal Oxides. ACS Sustainable Chemistry and Engineering, 2019, 7, 3940-3948.	3.2	100
105	Solvation structure of poly-m-phenyleneisophthalamide (PMIA) in ionic liquids. Physical Chemistry Chemical Physics, 2019, 21, 4053-4062.	1.3	17
106	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
107	Recovery of cobalt from dilute aqueous solutions using activated carbonâ€“alginate composite spheres impregnated with Cyanex 272. RSC Advances, 2019, 9, 18734-18746.	1.7	10
108	Separation of GaCl₃ from AlCl₃ by Solidâ€“Liquid Extraction and Stripping Using Anhydrous n-Dodecane and NaCl. Industrial & Engineering Chemistry Research, 2019, 58, 12459-12464.	1.8	3

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109	Degradation of Deep-Eutectic Solvents Based on Choline Chloride and Carboxylic Acids. ACS Sustainable Chemistry and Engineering, 2019, 7, 11521-11528.	3.2	179
110	Enhancing Metal Separations by Liquidâ€“Liquid Extraction Using Polar Solvents. Chemistry - A European Journal, 2019, 25, 9197-9201.	1.7	33
111	Removal of metallic coatings from rare-earth permanent magnets by solutions of bromine in organic solvents. RSC Advances, 2019, 9, 14910-14915.	1.7	8
112	Enhancing rare-earth recovery from lamp phosphor waste. Hydrometallurgy, 2019, 187, 38-44.	1.8	56
113	Tuning Solvent Miscibility: A Fundamental Assessment on the Example of Induced Methanol/n-Dodecane Phase Separation. Journal of Physical Chemistry B, 2019, 123, 4400-4407.	1.2	8
114	Selective recovery of germanium from iron-rich solutions using a supported ionic liquid phase (SILP). Separation and Purification Technology, 2019, 221, 83-92.	3.9	16
115	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
116	Electrodeposition of indium from non-aqueous electrolytes. Chemical Communications, 2019, 55, 4789-4792.	2.2	11
117	Yttrium and europium separation by solvent extraction with undiluted thiocyanate ionic liquids. RSC Advances, 2019, 9, 4876-4883.	1.7	28
118	Electrodeposition of indium from the ionic liquid trihexyl(tetradecyl)phosphonium chloride. Green Chemistry, 2019, 21, 1517-1530.	4.6	26
119	Recovery of Rare Earths from Bauxite Residue (Red Mud). World Scientific Series in Current Energy Issues, 2019, , 343-356.	0.1	3
120	Synthesis of Guerbet ionic liquids and extractants as Î²-branched biosourceable hydrophobes. Organic and Biomolecular Chemistry, 2019, 17, 9778-9791.	1.5	6
121	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
122	Recovery of rare earths from waste cathode ray tube (CRT) phosphor powder by selective sulfation roasting and water leaching. Hydrometallurgy, 2019, 183, 60-70.	1.8	26
123	Studies on the Thoria Fuel Recycling Loop Using Triflic Acid: Effects of Powder Characteristics, Solution Acidity, and Radium Behavior. Journal of Sustainable Metallurgy, 2019, 5, 118-126.	1.1	3
124	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
125	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
126	Rare Earths and the Balance Problem: How to Deal with Changing Markets?. Journal of Sustainable Metallurgy, 2018, 4, 126-146.	1.1	194

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127	Selective Substitution of POCl3 with Organometallic Reagents: Synthesis of Phosphinates and Phosphonates. Synthesis, 2018, 50, 2019-2026.	1.2	6
128	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
129	Fluorine-functionalized ionic liquids with high oxygen solubility. RSC Advances, 2018, 8, 4525-4530.	1.7	26
130	Selective electrochemical extraction of REEs from NdFeB magnet waste at room temperature. Green Chemistry, 2018, 20, 1065-1073.	4.6	50
131	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
132	Ionic liquids with trichloride anions for oxidative dissolution of metals and alloys. Chemical Communications, 2018, 54, 475-478.	2.2	61
133	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
134	Crosslinked anion exchange membranes prepared from poly(phenylene oxide) (PPO) for non-aqueous redox flow batteries. Journal of Power Sources, 2018, 378, 338-344.	4.0	40
135	Thermal stability of trihexyl(tetradecyl)phosphonium chloride. Physical Chemistry Chemical Physics, 2018, 20, 2444-2456.	1.3	46
136	Efficient separation of rare earths recovered by a supported ionic liquid from bauxite residue leachate. RSC Advances, 2018, 8, 11886-11893.	1.7	27
137	Cobalt(<scp>ii</scp>) liquid metal salts for high current density electrodeposition of cobalt. Dalton Transactions, 2018, 47, 4975-4986.	1.6	9
138	Low-Temperature Oxidation of Fine UO2 Powders: Thermochemistry and Kinetics. Inorganic Chemistry, 2018, 57, 4196-4204.	1.9	8
139	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
140	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
141	Purification of crude In(OH)3 using the functionalized ionic liquid betainium bis(trifluoromethylsulfonyl)imide. Green Chemistry, 2018, 20, 412-424.	4.6	21
142	Synthesis of Poly-p-phenylene Terephthalamide (PPTA) in Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 1362-1369.	3.2	28
143	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
144	Split-anion solvent extraction of light rare earths from concentrated chloride aqueous solutions to nitrate organic ionic liquids. RSC Advances, 2018, 8, 34754-34763.	1.7	19

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145	Magnetophoretic Sprinting: A Study on the Magnetic Properties of Aqueous Lanthanide Solutions. Journal of Physical Chemistry C, 2018, 122, 23675-23682.	1.5	13
146	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
147	Mechanochemical-Assisted Leaching of Lamp Phosphors: A Green Engineering Approach for Rare-Earth Recovery. Engineering, 2018, 4, 398-405.	3.2	28
148	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
149	Multiâ€Gram Scale Synthesis of 1,2,3â€Triazolium Ionic Liquids and Assay of Their Resistance towards Bases. European Journal of Organic Chemistry, 2018, 2018, 4850-4856.	1.2	14
150	Trihalide ionic liquids as non-volatile oxidizing solvents for metals. Green Chemistry, 2018, 20, 3327-3338.	4.6	56
151	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
152	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
153	Mechanism for Solvent Extraction of Lanthanides from Chloride Media by Basic Extractants. Journal of Solution Chemistry, 2018, 47, 1351-1372.	0.6	16
154	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
155	Docusate Ionic Liquids: Effect of Cation on Water Solubility and Solvent Extraction Behavior. ChemPlusChem, 2017, 82, 458-466.	1.3	18
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