

# Koen Binnemans

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

564 papers	30,981 citations	86 h-index	153 g-index
589 ext. papers	34,244 ext. citations	5.8 avg, IF	8.11 L-index

#	Paper	IF	Citations
564	Recovery of copper, zinc and lead from photovoltaic panel residue.. <i>RSC Advances</i> , <b>2022</b> , 12, 2351-2360	3.7	0
563	Continuous Counter-Current Ionic Liquid Metathesis in Mixer-Settlers: Efficiency Analysis and Comparison with Batch Operation.. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 946-955	8.3	0
562	Recovery of cobalt from lithium-ion battery cathode material by combining solvleaching and solvent extraction. <i>Green Chemistry</i> , <b>2022</b> , 24, 2839-2852	10	3
561	Separation of heavy rare-earth elements by non-aqueous solvent extraction: Flowsheet development and mixer-settler tests. <i>Separation and Purification Technology</i> , <b>2022</b> , 290, 120882	8.3	1
560	Combined HydroSolveBioleaching Approach toward the Valorization of a Sulfidic Copper Mine Tailing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 684-693	3.9	0
559	Solvometallurgical Process for the Recovery of Tungsten from Scheelite. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 754-764	3.9	3
558	Gamma radiolytic stability of the novel modified diglycolamide 2,2'-oxybis(,-didecylpropanamide) (mTDDGA) for grouped actinide extraction.. <i>RSC Advances</i> , <b>2022</b> , 12, 12416-12426	3.7	1
557	Effect of polar molecular organic solvents on non-aqueous solvent extraction of rare-earth elements. <i>Separation and Purification Technology</i> , <b>2022</b> , 294, 121197	8.3	0
556	Conventional versus microwave-assisted roasting of sulfidic tailings: Mineralogical transformation and metal leaching behavior. <i>Minerals Engineering</i> , <b>2022</b> , 183, 107587	4.9	2
555	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. <i>Separation and Purification Technology</i> , <b>2022</b> , 296, 121326	8.3	3
554	Liquid-liquid mass transfer in microfluidic reactors: assumptions and realities of non-ideal systems. <i>Chemical Engineering Science</i> , <b>2021</b> , 117232	4.4	1
553	Dosimetry and methodology of gamma irradiation for degradation studies on solvent extraction systems. <i>Radiochimica Acta</i> , <b>2021</b> , 109, 61-72	1.9	2
552	Nonaqueous Solvent Extraction for Enhanced Metal Separations: Concept, Systems, and Mechanisms.. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 17285-17302	3.9	4
551	Hard-Soft Interactions in Solvent Extraction with Basic Extractants: Comparing Zinc and Cadmium Halides. <i>ACS Omega</i> , <b>2021</b> , 6, 27924-27935	3.9	1
550	Solvometallurgical Recovery of Platinum Group Metals from Spent Automotive Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 337-350	8.3	9
549	Oxidative Dissolution of Metals in Organic Solvents. <i>Chemical Reviews</i> , <b>2021</b> , 121, 4506-4530	68.1	10
548	Antimony Recovery from Lead-Rich Dross of Lead Smelter and Conversion into Antimony Oxide Chloride (Sb4O5Cl2). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 5074-5084	8.3	3

547	Thermodynamic Modeling of Salting Effects in Solvent Extraction of Cobalt(II) from Chloride Media by the Basic Extractant Methyltrioctylammonium Chloride. <i>ACS Omega</i> , <b>2021</b> , 6, 11355-11366	3.9	4
546	Determination of Chlorides in Ionic Liquids by Wavelength Dispersive X-ray Fluorescence Spectrometry. <i>ACS Omega</i> , <b>2021</b> , 6, 13620-13625	3.9	2
545	Non-equilibrium solvent extraction in milliflow reactors: Precious and base metal separations with undiluted ionic liquids. <i>Separation and Purification Technology</i> , <b>2021</b> , 265, 118490	8.3	1
544	Mechanism of Ferric Chloride Facilitating Efficient Lithium Extraction from Magnesium-Rich Brine with Tri-n-butyl Phosphate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 8538-8547	3.9	2
543	Integrated Process for Recovery of Rare-Earth Elements from Lamp Phosphor Waste Using Methanesulfonic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 10319-10326	3.9	5
542	Solvometallurgical process for the recovery of rare-earth elements from NdFeB magnets. <i>Separation and Purification Technology</i> , <b>2021</b> , 258, 117800	8.3	11
541	Chromatographic separation of rare earths from aqueous and ethanolic leachates of NdFeB and SmCo magnets by a supported ionic liquid phase.. <i>RSC Advances</i> , <b>2021</b> , 11, 8207-8217	3.7	4
540	Removal of Cadmium, Zinc, and Manganese from Dilute Aqueous Solutions by Foam Separation. <i>Journal of Sustainable Metallurgy</i> , <b>2021</b> , 7, 78-86	2.7	4
539	Electrodeposition of neodymium and dysprosium from organic electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 9070-9079	3.6	8
538	Synthesis of polyaramids in $\gamma$ -valerolactone-based organic electrolyte solutions. <i>Green Chemistry</i> , <b>2021</b> , 23, 1228-1239	10	3
537	Structural effects of neutral organophosphorus extractants on solvent extraction of rare-earth elements from aqueous and non-aqueous nitrate solutions. <i>Separation and Purification Technology</i> , <b>2021</b> , 255, 117711	8.3	14
536	Electrochemical behavior and electrodeposition of gallium in 1,2-dimethoxyethane-based electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 15492-15502	3.6	0
535	Ethylammonium nitrate enhances the extraction of transition metal nitrates by tri-n-butyl phosphate (TBP). <i>AIChE Journal</i> , <b>2021</b> , 67, e17213	3.6	2
534	Opposite selectivities of tri-n-butyl phosphate and Cyanex 923 in solvent extraction of lithium and magnesium. <i>AIChE Journal</i> , <b>2021</b> , 67, e17219	3.6	5
533	N-butyl pyrrolidone/ionic liquid mixtures as benign alternative solvents to N-methyl pyrrolidone for the synthesis of polyaramids. <i>Materials Today Communications</i> , <b>2021</b> , 102843	2.5	
532	Closed-loop process for recovery of metals from NdFeB magnets using a trichloride ionic liquid. <i>Separation and Purification Technology</i> , <b>2021</b> , 275, 119158	8.3	0
531	Selective extraction of trivalent actinides using CyMeBTPhen in the ionic liquid Aliquat-336 nitrate.. <i>RSC Advances</i> , <b>2021</b> , 11, 6014-6021	3.7	1
530	Dissolution behavior of precious metals and selective palladium leaching from spent automotive catalysts by trihalide ionic liquids.. <i>RSC Advances</i> , <b>2021</b> , 11, 10110-10120	3.7	2

529	Image analysis data for the study of the reactivity of the phases in Nd-Fe-B magnets etched with HCl-saturated Cyphos IL 101. <i>Data in Brief</i> , <b>2020</b> , 32, 106203	1.2	
528	Reversible electrodeposition and stripping of magnesium from solvate ionic liquid-tetrabutylammonium chloride mixtures.. <i>RSC Advances</i> , <b>2020</b> , 10, 42021-42029	3.7	2
527	Extraction Behavior and Separation of Precious and Base Metals from Chloride, Bromide, and Iodide Media Using Undiluted Halide Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8223-8234	8.3	15
526	Fabrication of Nd- and Ce-doped uranium dioxide microspheres via internal gelation. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 535, 152128	3.3	4
525	Near-zero-waste processing of low-grade, complex primary ores and secondary raw materials in Europe: technology development trends. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 160, 104919	11.9	57
524	Effects of thiol substitution in deep-eutectic solvents (DESs) as solvents for metal oxides.. <i>RSC Advances</i> , <b>2020</b> , 10, 23484-23490	3.7	11
523	Dissolution of noble metals in highly concentrated acidic salt solutions. <i>Chemical Communications</i> , <b>2020</b> , 56, 8230-8232	5.8	13
522	One-pot synthesis of symmetric imidazolium ionic liquids , -disubstituted with long alkyl chains.. <i>RSC Advances</i> , <b>2020</b> , 10, 21071-21081	3.7	3
521	Solvometallurgical recovery of cobalt from lithium-ion battery cathode materials using deep-eutectic solvents. <i>Green Chemistry</i> , <b>2020</b> , 22, 4210-4221	10	61
520	Hydration counteracts the separation of lanthanides by solvent extraction. <i>AIChE Journal</i> , <b>2020</b> , 66, e16545	15.45	11
519	Physicochemical study of diethylmethylammonium methanesulfonate under anhydrous conditions. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 234504	3.9	5
518	Highly Soluble 1,4-Diaminoanthraquinone Derivative for Nonaqueous Symmetric Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3832-3843	8.3	21
517	Selective recovery of zinc from goethite residue in the zinc industry using deep-eutectic solvents.. <i>RSC Advances</i> , <b>2020</b> , 10, 7328-7335	3.7	22
516	Extraction of gallium from simulated Bayer process liquor by Kelex 100 dissolved in ionic liquids. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3532-3544	4.3	8
515	Selective Extraction of Americium from Curium and the Lanthanides by the Lipophilic Ligand CyMe4BTPhen Dissolved in Aliquat-336 Nitrate Ionic Liquid. <i>Solvent Extraction and Ion Exchange</i> , <b>2020</b> , 38, 194-211	2.5	11
514	Cerium-containing complexes for low-cost, non-aqueous redox flow batteries (RFBs). <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227634	8.9	7
513	Gamma Radiolysis of TODGA and CyMe4BTPhen in the Ionic Liquid Tri-n-Octylmethylammonium Nitrate. <i>Solvent Extraction and Ion Exchange</i> , <b>2020</b> , 38, 212-235	2.5	12
512	Selective leaching of lead from lead smelter residues using EDTA.. <i>RSC Advances</i> , <b>2020</b> , 10, 42147-42156	3.7	3

511	Recovery of valuable metals from NdFeB magnets by mechanochemically assisted ferric sulfate leaching. <i>Hydrometallurgy</i> , <b>2020</b> , 191, 105154	4	10
510	The conversion of ammonium uranate prepared via sol-gel synthesis into uranium oxides. <i>Nuclear Engineering and Technology</i> , <b>2020</b> , 52, 1013-1021	2.6	7
509	Selective Roasting of NdFe-B Permanent Magnets as a Pretreatment Step for Intensified Leaching with an Ionic Liquid. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 91-102	2.7	9
508	Solvometallurgical process for extraction of copper from chalcopyrite and other sulfidic ore minerals. <i>Green Chemistry</i> , <b>2020</b> , 22, 417-426	10	23
507	Alkali baking and solvometallurgical leaching of NdFeB magnets. <i>Hydrometallurgy</i> , <b>2020</b> , 191, 105213	4	13
506	Solvent Extraction Studies for the Separation of Trivalent Actinides from Lanthanides with a Triazole-functionalized 1,10-phenanthroline Extractant. <i>Solvent Extraction and Ion Exchange</i> , <b>2020</b> , 38, 719-734	2.5	5
505	Selective Removal of Zinc from BOF Sludge by Leaching with Mixtures of Ammonia and Ammonium Carbonate. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 680-690	2.7	6
504	Structural changes of Nd- and Ce-doped ammonium diuranate microspheres during the conversion to $UO_2$ . <i>Journal of Nuclear Materials</i> , <b>2020</b> , 542, 152454	3.3	1
503	Separation of precious metals by split-anion extraction using water-saturated ionic liquids. <i>Green Chemistry</i> , <b>2020</b> , 22, 8375-8388	10	12
502	Hydrometallurgical Processes for the Recovery of Metals from Steel Industry By-Products: A Critical Review. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 505-540	2.7	16
501	Enhancing the solubility of 1,4-diaminoanthraquinones in electrolytes for organic redox flow batteries through molecular modification.. <i>RSC Advances</i> , <b>2020</b> , 10, 39601-39610	3.7	1
500	Recovery of yttrium and europium from spent fluorescent lamps using pure levulinic acid and the deep eutectic solvent levulinic acid-choline chloride.. <i>RSC Advances</i> , <b>2020</b> , 10, 28879-28890	3.7	16
499	Stability of ionic liquids in Brønsted-basic media. <i>Green Chemistry</i> , <b>2020</b> , 22, 5225-5252	10	19
498	Separation of Scandium from Hydrochloric Acid-Ethanol Leachate of Bauxite Residue by a Supported Ionic Liquid Phase. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15332-15342	3.9	5
497	Selection criteria of diluents of tri-n-butyl phosphate for recovering neodymium(III) from nitrate solutions. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 161, 304-311	5.5	3
496	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 mixer-settlers.. <i>RSC Advances</i> , <b>2020</b> , 10, 24595-24612	3.7	9
495	Solvent Extraction of Gold(III) with Diethyl Carbonate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13713-13723	8.3	11
494	Ammoniacal Solvleaching of Copper from High-Grade Chrysocolla. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 589-598	2.7	2

493	Indium electrodeposition from indium(iii) methanesulfonate in DMSO. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 24526-24534	3.6	3
492	Cation Effect of Chloride Salting Agents on Transition Metal Ion Hydration and Solvent Extraction by the Basic Extractant Methyltrioctylammonium Chloride. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 13442-13452	5.1	7
491	Separation of iron(iii), zinc(ii) and lead(ii) from a choline chloride-ethylene glycol deep eutectic solvent by solvent extraction.. <i>RSC Advances</i> , <b>2020</b> , 10, 33161-33170	3.7	12
490	Valerolactone-based organic electrolyte solutions: a benign approach to polyaramid dissolution and processing. <i>Green Chemistry</i> , <b>2020</b> , 22, 6127-6136	10	6
489	Enhanced Separation of Neodymium and Dysprosium by Nonaqueous Solvent Extraction from a Polyethylene Glycol 200 Phase Using the Neutral Extractant Cyanex 923. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 19032-19039	8.3	10
488	Development of a solvometallurgical process for the separation of yttrium and europium by Cyanex 923 from ethylene glycol solutions. <i>Separation and Purification Technology</i> , <b>2020</b> , 235, 116193	8.3	14
487	Supported ionic liquid phases for the separation of samarium and europium in nitrate media: Towards purification of medical samarium-153. <i>Separation and Purification Technology</i> , <b>2020</b> , 232, 115939	8.3	9
486	Selective removal of magnesium from lithium-rich brine for lithium purification by synergic solvent extraction using $\beta$ -diketones and Cyanex 923. <i>AIChE Journal</i> , <b>2020</b> , 66, e16246	3.6	13
485	Recycling of bonded NdFeB permanent magnets using ionic liquids. <i>Green Chemistry</i> , <b>2020</b> , 22, 2821-2830	10	12
484	Radiochemical processing of nuclear-reactor-produced radiolanthanides for medical applications. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 382, 103-125	23.2	13
483	Methanesulfonic acid: a sustainable acidic solvent for recovering metals from the jarosite residue of the zinc industry. <i>Green Chemistry</i> , <b>2019</b> , 21, 5394-5404	10	22
482	Model for Metal Extraction from Chloride Media with Basic Extractants: A Coordination Chemistry Approach. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 12289-12301	5.1	31
481	Effect of Magnetic Susceptibility Gradient on the Magnetomigration of Rare-Earth Ions. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23131-23139	3.8	6
480	Stability of europium(ii) in aqueous nitrate solutions. <i>Dalton Transactions</i> , <b>2019</b> , 48, 14758-14768	4.3	7
479	Integrated process for the recovery of yttrium and europium from CRT phosphor waste.. <i>RSC Advances</i> , <b>2019</b> , 9, 1378-1386	3.7	10
478	Selective rare earth element extraction using high-pressure acid leaching of slags arising from the smelting of bauxite residue. <i>Hydrometallurgy</i> , <b>2019</b> , 184, 162-174	4	25
477	A Study of the Occurrence of Selected Rare-Earth Elements in Neutralized/Leached Bauxite Residue and Comparison with Untreated Bauxite Residue. <i>Journal of Sustainable Metallurgy</i> , <b>2019</b> , 5, 57-68	2.7	11
476	p-Toluenesulfonic Acid-Based Deep-Eutectic Solvents for Solubilizing Metal Oxides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3940-3948	8.3	53



475	Solvation structure of poly-m-phenyleneisophthalamide (PMIA) in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 4053-4062	3.6	12
474	Selective Metal Recovery from Jarosite Residue by Leaching with Acid-Equilibrated Ionic Liquids and Precipitation-Stripping. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4239-4246	8.3	23
473	Recovery of cobalt from dilute aqueous solutions using activated carbon-alginate composite spheres impregnated with Cyanex 272.. <i>RSC Advances</i> , <b>2019</b> , 9, 18734-18746	3.7	7
472	Separation of GaCl from AlCl by Solid-Liquid Extraction and Stripping Using Anhydrous -Dodecane and NaCl. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 12459-12464	3.9	1
471	Degradation of Deep-Eutectic Solvents Based on Choline Chloride and Carboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11521-11528	8.3	100
470	Enhancing Metal Separations by Liquid-Liquid Extraction Using Polar Solvents. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 9197-9201	4.8	21
469	Removal of metallic coatings from rare-earth permanent magnets by solutions of bromine in organic solvents.. <i>RSC Advances</i> , <b>2019</b> , 9, 14910-14915	3.7	3
468	Enhancing rare-earth recovery from lamp phosphor waste. <i>Hydrometallurgy</i> , <b>2019</b> , 187, 38-44	4	36
467	Tuning Solvent Miscibility: A Fundamental Assessment on the Example of Induced Methanol/n-Dodecane Phase Separation. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 4400-4407	3.4	3
466	Selective recovery of germanium from iron-rich solutions using a supported ionic liquid phase (SILP). <i>Separation and Purification Technology</i> , <b>2019</b> , 221, 83-92	8.3	11
465	Solvometallurgical route for the recovery of Sm, Co, Cu and Fe from SmCo permanent magnets. <i>Separation and Purification Technology</i> , <b>2019</b> , 219, 281-289	8.3	22
464	Electrodeposition of indium from non-aqueous electrolytes. <i>Chemical Communications</i> , <b>2019</b> , 55, 4789-4792	3.9	7
463	Yttrium and europium separation by solvent extraction with undiluted thiocyanate ionic liquids.. <i>RSC Advances</i> , <b>2019</b> , 9, 4876-4883	3.7	16
462	Samarium/cobalt separation by solvent extraction with undiluted quaternary ammonium ionic liquids. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 209-218	8.3	43
461	Enhancing Metal Separations Using Hydrophilic Ionic Liquids and Analogues as Complexing Agents in the More Polar Phase of Liquid-Liquid Extraction Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 15628-15636	3.9	18
460	Recovery of Gallium, Indium, and Arsenic from Semiconductors Using Tribromide Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14451-14459	8.3	20
459	Isolation of molybdenum(VI) from simulated leachates of irradiated uranium-aluminum targets using diluted and undiluted sulfate ionic liquids. <i>Green Chemistry</i> , <b>2019</b> , 21, 3948-3960	10	4
458	Metal Recovery From Spent Samarium-Cobalt Magnets Using a Trichloride Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2578-2584	8.3	43

457	Efficient and Sustainable Removal of Magnesium from Brines for Lithium/Magnesium Separation Using Binary Extractants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19225-19234	8.3	21
456	Recovery of Lead and Silver from Zinc Leaching Residue Using Methanesulfonic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19807-19815	8.3	13
455	Separation of neodymium and dysprosium by solvent extraction using ionic liquids combined with neutral extractants: batch and mixer-settler experiments.. <i>RSC Advances</i> , <b>2019</b> , 10, 307-316	3.7	21
454	Electrodeposition of indium from the ionic liquid trihexyl(tetradecyl)phosphonium chloride. <i>Green Chemistry</i> , <b>2019</b> , 21, 1517-1530	10	19
453	Recovery of Rare Earths from Bauxite Residue (Red Mud). <i>World Scientific Series in Current Energy Issues</i> , <b>2019</b> , 343-356	0.2	2
452	Synthesis of Guerbet ionic liquids and extractants as $\beta$ -branched biosourceable hydrophobes. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 9778-9791	3.9	5
451	Selective ion-exchange separation of scandium(III) over iron(III) by crystalline $\beta$ -zirconium phosphate platelets under acidic conditions. <i>Separation and Purification Technology</i> , <b>2019</b> , 215, 81-90	8.3	19
450	Recovery of rare earths from waste cathode ray tube (CRT) phosphor powder by selective sulfation roasting and water leaching. <i>Hydrometallurgy</i> , <b>2019</b> , 183, 60-70	4	19
449	Studies on the Thoria Fuel Recycling Loop Using Triflic Acid: Effects of Powder Characteristics, Solution Acidity, and Radium Behavior. <i>Journal of Sustainable Metallurgy</i> , <b>2019</b> , 5, 118-126	2.7	1
448	Selective recovery of indium from iron-rich solutions using an Aliquat 336 iodide supported ionic liquid phase (SILP). <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 843-853	8.3	22
447	Metal coordination in the high-temperature leaching of roasted NdFeB magnets with the ionic liquid betainium bis(trifluoromethylsulfonyl)imide.. <i>RSC Advances</i> , <b>2018</b> , 8, 9299-9310	3.7	19
446	Rare Earths and the Balance Problem: How to Deal with Changing Markets?. <i>Journal of Sustainable Metallurgy</i> , <b>2018</b> , 4, 126-146	2.7	115
445	Selective Substitution of POCl <sub>3</sub> with Organometallic Reagents: Synthesis of Phosphinates and Phosphonates. <i>Synthesis</i> , <b>2018</b> , 50, 2019-2026	2.9	6
444	Extraction of rare earths from bauxite residue (red mud) by dry digestion followed by water leaching. <i>Minerals Engineering</i> , <b>2018</b> , 119, 82-92	4.9	81
443	Fluorine-functionalized ionic liquids with high oxygen solubility.. <i>RSC Advances</i> , <b>2018</b> , 8, 4525-4530	3.7	18
442	Selective electrochemical extraction of REEs from NdFeB magnet waste at room temperature. <i>Green Chemistry</i> , <b>2018</b> , 20, 1065-1073	10	34
441	Solvation Structure of Sodium Bis(fluorosulfonyl)imide-Glyme Solvate Ionic Liquids and Its Influence on Cycling of Na-MNC Cathodes. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 275-289	3.4	30
440	Ionic liquids with trichloride anions for oxidative dissolution of metals and alloys. <i>Chemical Communications</i> , <b>2018</b> , 54, 475-478	5.8	39



439	Ethylenediaminetriacetic Acid-Functionalized Activated Carbon for the Adsorption of Rare Earths from Aqueous Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 1487-1497	3.9	42
438	Crosslinked anion exchange membranes prepared from poly(phenylene oxide) (PPO) for non-aqueous redox flow batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 338-344	8.9	29
437	Thermal stability of trihexyl(tetradecyl)phosphonium chloride. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 2444-2456	3.6	31
436	Efficient separation of rare earths recovered by a supported ionic liquid from bauxite residue leachate.. <i>RSC Advances</i> , <b>2018</b> , 8, 11886-11893	3.7	24
435	Cobalt(ii) liquid metal salts for high current density electrodeposition of cobalt. <i>Dalton Transactions</i> , <b>2018</b> , 47, 4975-4986	4.3	6
434	Low-Temperature Oxidation of Fine UO Powders: Thermochemistry and Kinetics. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4196-4204	5.1	2
433	Separation of transition metals from rare earths by non-aqueous solvent extraction from ethylene glycol solutions using Aliquat 336. <i>Separation and Purification Technology</i> , <b>2018</b> , 201, 318-326	8.3	41
432	Effect of the diluent on the solvent extraction of neodymium(III) by bis(2-ethylhexyl)phosphoric acid (D2EHPA). <i>Hydrometallurgy</i> , <b>2018</b> , 177, 146-151	4	25
431	Trihalide ionic liquids as non-volatile oxidizing solvents for metals. <i>Green Chemistry</i> , <b>2018</b> , 20, 3327-3338	10	36
430	Combined multi-step precipitation and supported ionic liquid phase chromatography for the recovery of rare earths from leach solutions of bauxite residues. <i>Hydrometallurgy</i> , <b>2018</b> , 180, 229-235	4	21
429	Recovery of rare earths from the green lamp phosphor LaPO <sub>3</sub> :Ce,Tb (LAP) by dissolution in concentrated methanesulphonic acid.. <i>RSC Advances</i> , <b>2018</b> , 8, 26349-26355	3.7	29
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427	Separation of samarium and europium by solvent extraction with an undiluted quaternary ammonium ionic liquid: towards high-purity medical samarium-153.. <i>RSC Advances</i> , <b>2018</b> , 8, 20077-20086	3.7	22
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425	Synthesis of Poly-p-phenylene Terephthalamide (PPTA) in Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1362-1369	8.3	24
424	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. <i>Solvent Extraction and Ion Exchange</i> , <b>2018</b> , 36, 519-541	2.5	20
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422	Magnetophoretic Sprinting: A Study on the Magnetic Properties of Aqueous Lanthanide Solutions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23675-23682	3.8	10

4 <sup>21</sup>	Speciation of lanthanide ions in the organic phase after extraction from nitrate media by basic extractants. <i>RSC Advances</i> , <b>2018</b> , 8, 32044-32054	3.7	21
4 <sup>20</sup>	Mechanochemical-Assisted Leaching of Lamp Phosphors: A Green Engineering Approach for Rare-Earth Recovery. <i>Engineering</i> , <b>2018</b> , 4, 398-405	9.7	20
4 <sup>19</sup>	Selective Extraction of Rare-Earth Elements from NdFeB Magnets by a Room-Temperature Electrolysis Pretreatment Step. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9375-9382	8.3	28
4 <sup>18</sup>	Multi-Gram Scale Synthesis of 1,2,3-Triazolium Ionic Liquids and Assay of Their Resistance towards Bases. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 4850-4856	3.2	12
4 <sup>17</sup>	Docusate Ionic Liquids: Effect of Cation on Water Solubility and Solvent Extraction Behavior. <i>ChemPlusChem</i> , <b>2017</b> , 82, 458-466	2.8	15
4 <sup>16</sup>	Manganese-containing ionic liquids: synthesis, crystal structures and electrodeposition of manganese films and nanoparticles. <i>Dalton Transactions</i> , <b>2017</b> , 46, 2497-2509	4.3	10
4 <sup>15</sup>	Synthesis of gadolinium-doped thorium dioxide via a wet chemical route: Limitations of the co-precipitation method. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 489, 211-221	3.3	7
4 <sup>14</sup>	Solvometallurgy: An Emerging Branch of Extractive Metallurgy. <i>Journal of Sustainable Metallurgy</i> , <b>2017</b> , 3, 570-600	2.7	117
4 <sup>13</sup>	Recovery of Rare Earths and Major Metals from Bauxite Residue (Red Mud) by Alkali Roasting, Smelting, and Leaching. <i>Journal of Sustainable Metallurgy</i> , <b>2017</b> , 3, 393-404	2.7	46
4 <sup>12</sup>	Process development for hydrometallurgical recovery of valuable metals from sulfide-rich residue generated in a secondary lead smelter. <i>Hydrometallurgy</i> , <b>2017</b> , 169, 589-598	4	8
4 <sup>11</sup>	A non-aqueous all-copper redox flow battery with highly soluble active species. <i>Electrochimica Acta</i> , <b>2017</b> , 236, 116-121	6.7	26
4 <sup>10</sup>	Selective alkaline stripping of metal ions after solvent extraction by base-stable 1,2,3-triazolium ionic liquids. <i>Dalton Transactions</i> , <b>2017</b> , 46, 5269-5278	4.3	16
4 <sup>09</sup>	Direct Analysis of Metal Ions in Solutions with High Salt Concentrations by Total Reflection X-ray Fluorescence. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4595-4603	7.8	28
4 <sup>08</sup>	Polymerization of PPTA in Ionic Liquid/Cosolvent Mixtures. <i>Macromolecules</i> , <b>2017</b> , 50, 3089-3100	5.5	13
4 <sup>07</sup>	Recycling of rare earths from lamp phosphor waste: Enhanced dissolution of LaPO <sub>4</sub> :Ce <sup>3+</sup> , Tb <sup>3+</sup> by mechanical activation. <i>Journal of Cleaner Production</i> , <b>2017</b> , 156, 226-234	10.3	37
4 <sup>06</sup>	Metal extraction with a short-chain imidazolium nitrate ionic liquid. <i>Chemical Communications</i> , <b>2017</b> , 53, 5271-5274	5.8	27
4 <sup>05</sup>	Speciation of indium(iii) chloro complexes in the solvent extraction process from chloride aqueous solutions to ionic liquids. <i>Dalton Transactions</i> , <b>2017</b> , 46, 4412-4421	4.3	29
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403	High-speed electrodeposition of copper-tin-zinc stacks from liquid metal salts for CuZnSnSe solar cells. <i>Chemical Communications</i> , <b>2017</b> , 53, 913-916	5.8	9
402	Recovery of scandium(III) from diluted aqueous solutions by a supported ionic liquid phase (SILP). <i>RSC Advances</i> , <b>2017</b> , 7, 49664-49674	3.7	25
401	Titanium alkylphosphate functionalised mesoporous silica for enhanced uptake of rare-earth ions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23805-23814	13	12
400	Magnetomigration of Rare-Earth Ions Triggered by Concentration Gradients. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5301-5305	6.4	16
399	Separation of rare-earth ions from ethylene glycol (+LiCl) solutions by non-aqueous solvent extraction with Cyanex 923. <i>RSC Advances</i> , <b>2017</b> , 7, 45351-45362	3.7	26
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392	Closed-loop solvometallurgical process for recovery of lead from iron-rich secondary lead smelter residues. <i>RSC Advances</i> , <b>2017</b> , 7, 49999-50005	3.7	12
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31	Optical properties of Nd <sup>3+</sup> -doped fluorophosphate glasses. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 275-277, 455-460	5.7	40
30	Spectroscopic properties of the trivalent terbium ion in the huntite matrix TbAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 274, 157-163	5.7	43
29	Spectroscopic properties of trivalent lanthanide ions in fluorophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 238, 11-29	3.9	113
28	Spectroscopic properties of LiErF <sub>4</sub> . <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1998</b> , 94, 843-849		3
27	Spectroscopic properties of KY <sub>3</sub> F <sub>10</sub> :Er <sup>3+</sup> . <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1998</b> , 94, 1671-1674		14
26	Reduction of the transition temperatures in mesomorphic lanthanide complexes by the exchange of counter-ions. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 1551-1553		58

25	Are the Judd - Ofelt intensity parameters sensitive enough to reflect small compositional changes in lanthanide-doped glasses?. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, L167-L170	1.8	26
24	Optical properties of -doped fluorophosphate glasses. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 7231-7241	1.8	48
23	Chapter 167 Spectral intensities of f-f transitions. <i>Fundamental Theories of Physics</i> , <b>1998</b> , 101-264	0.8	268
22	Optical absorption spectra of in (YGG). <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 1637-1648	1.8	20
21	Absorption and magnetic circular dichroism spectra of praseodymium doped fluorozirconate (ZBLAN) glass. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 250, 321-325	5.7	25
20	Crystal field analysis of EuCl <sub>3</sub> .6H <sub>2</sub> O. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 250, 326-331	5.7	16
19	Influence of dipicolinate ligands on the spectroscopic properties of europium(III) in solution. <i>Chemical Physics Letters</i> , <b>1997</b> , 266, 297-302	2.5	102
18	Spectroscopic properties of Gd <sup>3+</sup> -doped fluorozirconate glass. <i>Chemical Physics Letters</i> , <b>1997</b> , 280, 333-338	3.3	65
17	Optical absorption and magnetic circular dichroism spectra of neodymium doped fluorozirconate (ZBLAN) glass. <i>Journal of Non-Crystalline Solids</i> , <b>1996</b> , 204, 178-187	3.9	22
16	Magnetic circular dichroism and optical absorption spectra of Eu <sup>3+</sup> in Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> (YAG). <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 2487-2493		20
15	Polarized absorption spectra of. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 1267-1279	1.8	7
14	Chapter 155 Rationalization of crystal-field parametrization. <i>Fundamental Theories of Physics</i> , <b>1996</b> , 121-283	2.8	232
13	Magnetic circular dichroism of Na <sub>3</sub> Nd(ODA) <sub>3</sub> ·2NaClO <sub>4</sub> ·6H <sub>2</sub> O. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 6117-6127	3.9	16
12	Intensity parametrisation of LiYF <sub>4</sub> :Eu <sup>3+</sup> . <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 225, 71-74	5.7	7
11	Magnetic circular dichroism and optical absorption spectra of holmium-doped fluorozirconate (ZBLAN) glass: a prospective study. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 225, 80-84	5.7	11
10	On the color of the trivalent lanthanide ions. <i>Chemical Physics Letters</i> , <b>1995</b> , 235, 163-174	2.5	143
9	A simple model for crystal field splittings of the 7F <sub>1</sub> and 5D <sub>1</sub> energy levels of Eu <sup>3+</sup> . <i>Chemical Physics Letters</i> , <b>1995</b> , 245, 75-78	2.5	60
8	Optical absorption spectra, crystal-field energy levels and intensities of Eu <sup>3+</sup> in GdAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , <b>1994</b> , 6, 7797-7812	1.8	23



7	Magnetic circular dichroism of $\text{Na}_3\text{Eu}(\text{ODA})_3 \cdot 2\text{NaClO}_4 \cdot 6\text{H}_2\text{O}$ . <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 815-823	3.9	18
6	Magnetic circular dichroism for generating crystal wave functions. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 207-208, 51-54	5.7	5
5	Crystal-field analysis of $\text{Eu}^{3+}$ in $\text{LiYF}_4$ . <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, 8359-8374	1.8	25
4	Closing the Loop in Ion Flotation: Recovery of Copper, Regeneration and Reuse of Collector from the Foam Phase by a Solvometallurgical Process. <i>Journal of Sustainable Metallurgy</i> , 1	2.7	2
3	Electrochemical oxidation of terbium(III) in aqueous media: influence of supporting electrolyte on oxidation potential and stability. <i>Journal of Applied Electrochemistry</i> , 1	2.6	0
2	Recovery of Copper from Ammoniacal Leachates by Ion Flotation. <i>Journal of Sustainable Metallurgy</i> , 1	2.7	7
1	Hydrolysis of uranyl-, Nd-, Ce-ions and their mixtures by thermal decomposition of urea. <i>European Journal of Inorganic Chemistry</i> ,	2.3	2