Koen Binnemans

List of Publications by Citations

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	Lanthanide-based luminescent hybrid materials. *Chemical Reviews*, **2009**, 109, 4283-374	68.1	2680
563	Interpretation of europium(III) spectra. *Coordination Chemistry Reviews*, **2015**, 295, 1-45	23.2	1492
562	Recycling of rare earths: a critical review. *Journal of Cleaner Production*, **2013**, 51, 1-22	10.3	1360
561	Ionic liquid crystals. *Chemical Reviews*, **2005**, 105, 4148-204	68.1	996
560	Lanthanides and actinides in ionic liquids. *Chemical Reviews*, **2007**, 107, 2592-614	68.1	553
559	Ionic Liquid Crystals: Versatile Materials. *Chemical Reviews*, **2016**, 116, 4643-807	68.1	476
558	Lanthanide-containing liquid crystals and surfactants. *Chemical Reviews*, **2002**, 102, 2303-46	68.1	461
557	Task-specific ionic liquid for solubilizing metal oxides. *Journal of Physical Chemistry B*, **2006**, 110, 20978-92	3.4	357
556	Towards zero-waste valorisation of rare-earth-containing industrial process residues: a critical review. *Journal of Cleaner Production*, **2015**, 99, 17-38	10.3	349
555	A luminescent tris(2-thenoyltrifluoroacetonato)europium(III) complex covalently linked to a 1,10-phenanthroline-functionalised sol–gel glass. *Journal of Materials Chemistry*, **2004**, 14, 191-195		311
554	Leaching of rare earths from bauxite residue (red mud). *Minerals Engineering*, **2015**, 76, 20-27	4.9	280
553	Chapter 167 Spectral intensities of f-f transitions. *Fundamental Theories of Physics*, **1998**, 101-264	0.8	268
552	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	10	264
551	Chapter 155 Rationalization of crystal-field parametrization. *Fundamental Theories of Physics*, **1996**, 121-283	0.8	232
550	Rare-Earth-Containing Magnetic Liquid Crystals. *Journal of the American Chemical Society*, **2000**, 122, 4335-4344	16.4	225
549	Purification of imidazolium ionic liquids for spectroscopic applications. *Chemical Physics Letters*, **2005**, 415, 131-136	2.5	224
548	Luminescent Ionogels Based on Europium-Doped Ionic Liquids Confined within Silica-Derived Networks. *Chemistry of Materials*, **2006**, 18, 5711-5715	9.6	218

547	Rare-earth beta-diketonates. *Fundamental Theories of Physics*, **2005**, 35, 107-272	0.8	216
546	REE Recovery from End-of-Life NdFeB Permanent Magnet Scrap: A Critical Review. *Journal of Sustainable Metallurgy*, **2017**, 3, 122-149	2.7	209
545	Immobilization of molecular catalysts in supported ionic liquid phases. *Dalton Transactions*, **2010**, 39, 8377-90	4.3	209
544	Carboxyl-functionalized task-specific ionic liquids for solubilizing metal oxides. *Inorganic Chemistry*, **2008**, 47, 9987-99	5.1	207
543	Choline saccharinate and choline acesulfamate: ionic liquids with low toxicities. *Journal of Physical Chemistry B*, **2007**, 111, 5254-63	3.4	204
542	Thin Films of Highly Luminescent Lanthanide Complexes Covalently Linked to an Organic□norganic Hybrid Material via 2-Substituted Imidazo[4,5-f]-1,10-phenanthroline Groups. *Chemistry of Materials* , **2005**, 17, 5194-5201	9.6	202
541	Covalent Coupling of Luminescent Tris(2-thenoyltrifluoroacetonato)lanthanide(III) Complexes on a Merrifield Resin. *Chemistry of Materials*, **2005**, 17, 2148-2154	9.6	182
540	Photostability of a highly luminescent europium beta-diketonate complex in imidazolium ionic liquids. *Chemical Communications*, **2005**, 4354-6	5.8	177
539	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	10	171
538	Homogeneous Liquid-Liquid Extraction of Metal Ions with a Functionalized Ionic Liquid. *Journal of Physical Chemistry Letters*, **2013**, 4, 1659-63	6.4	168
537	Anionic rare-earth thiocyanate complexes as building blocks for low-melting metal-containing ionic liquids. *Journal of the American Chemical Society*, **2006**, 128, 13658-9	16.4	167
536	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	10	164
535	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	10	161
534	Biobased Ionic Liquids: Solvents for a Green Processing Industry?. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2917-2931	8.3	158
533	Temperature dependence of the electrical conductivity of imidazolium ionic liquids. *Journal of Chemical Physics*, **2008**, 128, 064509	3.9	150
532	Recovery of Rare Earths and Other Valuable Metals From Bauxite Residue (Red Mud): A Review. *Journal of Sustainable Metallurgy*, **2016**, 2, 365-386	2.7	149
531	Adsorption and chromatographic separation of rare earths with EDTA- and DTPA-functionalized chitosan biopolymers. *Journal of Materials Chemistry A*, **2014**, 2, 1530-1540	13	145
530	On the color of the trivalent lanthanide ions. *Chemical Physics Letters*, **1995**, 235, 163-174	2.5	143

529	Imidazolium Ionic Liquid Crystals with Pendant Mesogenic Groups. *Chemistry of Materials*, **2008**, 20, 157-168	9.6	138
528	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	10	137
527	Adsorption performance of functionalized chitosan–silica hybrid materials toward rare earths. *Journal of Materials Chemistry A*, **2014**, 2, 19415-19426	13	135
526	Ionic liquid as plasticizer for europium(III)-doped luminescent poly(methyl methacrylate) films. *Physical Chemistry Chemical Physics*, **2010**, 12, 1879-85	3.6	135
525	Luminescence of metallomesogens in the liquid crystal state. *Journal of Materials Chemistry*, **2009**, 19, 448-453		135
524	Hydrophobic ionic liquids with strongly coordinating anions. *Chemical Communications*, **2010**, 46, 234-6	5.8	133
523	Electrochemical decomposition of choline chloride based ionic liquid analogues. *Green Chemistry*, **2009**, 11, 1357	10	131
522	Lanthanide-doped luminescent ionogels. *Dalton Transactions*, **2009**, 298-306	4.3	130
521	Selective uptake of rare earths from aqueous solutions by EDTA-functionalized magnetic and nonmagnetic nanoparticles. *ACS Applied Materials & Interfaces*, **2014**, 6, 4980-8	9.5	127
520	Perspectives for the recovery of rare earths from end-of-life fluorescent lamps. *Journal of Rare Earths*, **2014**, 32, 195-200	3.7	126
519	High pressure, high temperature electrochemical synthesis of metal–organic frameworks: films of MIL-100 (Fe) and HKUST-1 in different morphologies. *Journal of Materials Chemistry A*, **2013**, 1, 5827	13	121
518	Polarized Luminescence from Aligned Samples of Nematogenic Lanthanide Complexes. *Advanced Materials*, **2008**, 20, 252-257	24	119
517	Solvometallurgy: An Emerging Branch of Extractive Metallurgy. *Journal of Sustainable Metallurgy*, **2017**, 3, 570-600	2.7	117
516	Pyrrolidinium ionic liquid crystals. *Chemistry - A European Journal*, **2009**, 15, 656-74	4.8	117
515	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	10	115
514	Rare Earths and the Balance Problem: How to Deal with Changing Markets?. *Journal of Sustainable Metallurgy*, **2018**, 4, 126-146	2.7	115
513	Visible and near-infrared emission by samarium(III)-containing ionic liquid mixtures. *Inorganic Chemistry*, **2009**, 48, 3018-26	5.1	114
512	Spectroscopic properties of trivalent lanthanide ions in fluorophosphate glasses. *Journal of Non-Crystalline Solids*, **1998**, 238, 11-29	3.9	113

511	Rare-earth quinolinates: infrared-emitting molecular materials with a rich structural chemistry. *Inorganic Chemistry*, **2004**, 43, 8461-9	5.1	113
510	From NdFeB magnets towards the rare-earth oxides: a recycling process consuming only oxalic acid. *RSC Advances*, **2014**, 4, 64099-64111	3.7	112
509	Intense near-infrared luminescence of anhydrous lanthanide(III) iodides in an imidazolium ionic liquid. *Chemical Physics Letters*, **2005**, 402, 75-79	2.5	111
508	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, 6747-57	3.4	110
507	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	35.4	110
506	Selective recovery of rare earths from bauxite residue by combination of sulfation, roasting and leaching. *Minerals Engineering*, **2016**, 92, 151-159	4.9	109
505	Design of High Coordination Number Metallomesogens by Decoupling of the Complex-Forming and Mesogenic Groups: Nematic and Lamello-Columnar Mesophases. *Chemistry of Materials*, **2005**, 17, 6589-6598	9.6	108
504	Near-Infrared Luminescence of Lanthanide Calcein and Lanthanide Dipicolinate Complexes Doped into a Silica−PEG Hybrid Material. *Chemistry of Materials*, **2004**, 16, 1531-1535	9.6	108
503	Rare Earths and the Balance Problem. *Journal of Sustainable Metallurgy*, **2015**, 1, 29-38	2.7	103
502	A Hybrid Supercapacitor based on Porous Carbon and the Metal-Organic Framework MIL-100(Fe). *ChemElectroChem*, **2014**, 1, 1182-1188	4.3	103
501	Luminescent terbium-containing metal-organic framework films: new approaches for the electrochemical synthesis and application as detectors for explosives. *Chemical Communications*, **2014**, 50, 12545-7	5.8	102
500	Influence of dipicolinate ligands on the spectroscopic properties of europium(III) in solution. *Chemical Physics Letters*, **1997**, 266, 297-302	2.5	102
499	Degradation of Deep-Eutectic Solvents Based on Choline Chloride and Carboxylic Acids. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11521-11528	8.3	100
498	Electrocarboxylation: towards sustainable and efficient synthesis of valuable carboxylic acids. *Beilstein Journal of Organic Chemistry*, **2014**, 10, 2484-500	2.5	100
497	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	3.9	99
496	Near-infrared photoluminescence of lanthanide-doped liquid crystals. *Journal of Materials Chemistry*, **2003**, 13, 1520-1522		99
495	Speciation of uranyl complexes in ionic liquids by optical spectroscopy. *Inorganic Chemistry*, **2007**, 46, 11335-44	5.1	98
494	Rare-Earth Economics: The Balance Problem. *Jom*, **2013**, 65, 846-848	2.1	97

493	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	3.9	96
492	Speciation of copper(II) complexes in an ionic liquid based on choline chloride and in choline chloride/water mixtures. *Inorganic Chemistry*, **2012**, 51, 4972-81	5.1	96
491	Investigation of thermal properties of glassy itraconazole: identification of a monotropic mesophase. *Thermochimica Acta*, **2001**, 376, 175-181	2.9	95
490	Smelting of Bauxite Residue (Red Mud) in View of Iron and Selective Rare Earths Recovery. *Journal of Sustainable Metallurgy*, **2016**, 2, 28-37	2.7	94
489	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, 439-47	2.8	94
488	Copper(I)-containing ionic liquids for high-rate electrodeposition. *Chemistry - A European Journal*, **2011**, 17, 5054-9	4.8	93
487	Liquid-liquid extraction of europium(III) and other trivalent rare-earth ions using a non-fluorinated functionalized ionic liquid. *Dalton Transactions*, **2014**, 43, 1862-72	4.3	92
486	A continuous ionic liquid extraction process for the separation of cobalt from nickel. *Green Chemistry*, **2013**, 15, 3160	10	92
485	Piperidinium, piperazinium and morpholinium ionic liquid crystals. *Journal of Physical Chemistry B*, **2009**, 113, 9506-11	3.4	92
484	Selective extraction of metals using ionic liquids for nickel metal hydride battery recycling. *Green Chemistry*, **2014**, 16, 4595-4603	10	90
483	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, 1429-37	3.4	89
482	On the electrochemical deposition of metal–organic frameworks. *Journal of Materials Chemistry A*, **2016**, 4, 3914-3925	13	88
481	Liquid-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, 16533-41	3.6	88
480	Room-temperature magnetic anisotropy of lanthanide complexes: A model study for various coordination polyhedra. *Journal of Chemical Physics*, **2002**, 116, 4673-4685	3.9	88
479	Synthesis, spectral and mesomorphic properties of octa-alkoxy substituted phthalocyanine ligands and lanthanide complexes. *Materials Science and Engineering C*, **2001**, 18, 229-238	8.3	86
478	Recovery of scandium from leachates of Greek bauxite residue by adsorption on functionalized chitosan–silica hybrid materials. *Green Chemistry*, **2016**, 18, 2005-2013	10	84
477	Polynuclear Metal Complexes Obtained from the Task-Specific Ionic Liquid Betainium Bistriflimide. *Crystal Growth and Design*, **2008**, 8, 1353-1363	3.5	83
476	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, 1379-87	4.3	82

475	Uranyl complexes of carboxyl-functionalized ionic liquids. *Inorganic Chemistry*, **2010**, 49, 3351-60	5.1	82
474	Imidazo[4,5-f]-1,10-phenanthrolines: Versatile Ligands for the Design of Metallomesogens. *Chemistry of Materials*, **2008**, 20, 1278-1291	9.6	82
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472	Ionic liquids as solvents for near-infrared emitting lanthanide complexes. *Chemical Physics Letters*, **2004**, 395, 306-310	2.5	80
471	Imidazolium ionic liquids as solvents for cerium(IV)-mediated oxidation reactions. *Journal of Organic Chemistry*, **2007**, 72, 517-24	4.2	79
470	Rare-Earth complexes of ferrocene-containing ligands: visible-light excitable luminescent materials. *Inorganic Chemistry*, **2007**, 46, 5302-9	5.1	78
469	Speciation of rare-earth metal complexes in ionic liquids: a multiple-technique approach. *Chemistry - A European Journal*, **2009**, 15, 1449-61	4.8	76
468	Hydrogen bonding versus van der Waals interactions: competitive influence of noncovalent interactions on 2D self-assembly at the liquid-solid interface. *Chemistry - A European Journal*, **2010**, 16, 14447-58	4.8	75
467	Structure and Mesomorphic Behavior of Alkoxy-Substituted Bis(phthalocyaninato)lanthanide(III) Complexes. *Chemistry of Materials*, **2003**, 15, 3930-3938	9.6	75
466	JuddOfelt intensity parameters of trivalent lanthanide ions in a NaPO3BaF2 based fluorophosphate glass. *Journal of Alloys and Compounds*, **1999**, 283, 59-65	5.7	74
465	Antimony Recovery from End-of-Life Products and Industrial Process Residues: A Critical Review. *Journal of Sustainable Metallurgy*, **2016**, 2, 79-103	2.7	73
464	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	3.7	73
463	Structure and Mesomorphism of Silver Alkanoates. *Chemistry of Materials*, **2004**, 16, 2021-2027	9.6	73
462	Homogeneous liquid-liquid extraction of rare earths with the betaine-betainium bis(trifluoromethylsulfonyl)imide ionic liquid system. *International Journal of Molecular Sciences*, **2013**, 14, 21353-77	6.3	72
461	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	8.3	69
460	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	4.3	68
459	Narrow band photoluminescence of europium-doped liquid crystals. *Journal of Materials Chemistry*, **2002**, 12, 3374-3376		67
458	Potential MRI Contrast Agents Based on Micellar Incorporation of Amphiphilic Bis(alkylamide) Derivatives of [(GdDTPA)(H2O)]2*European Journal of Inorganic Chemistry*, **2003**, 2003, 3021-3027	2.3	66

457	Visible light sensitisation of europium(III) luminescence in a 9-hydroxyphenal-1-one complex. *Chemical Communications*, **2005**, 590-2	5.8	66
456	Spectroscopic properties of Gd3+-doped fluorozirconate glass. *Chemical Physics Letters*, **1997**, 280, 333-338	2.5	65
455	Separation of rare earths from transition metals by liquid-liquid extraction from a molten salt hydrate to an ionic liquid phase. *Dalton Transactions*, **2014**, 43, 3186-95	4.3	64
454	Accurate lattice parameter measurements of stoichiometric uranium dioxide. *Journal of Nuclear Materials*, **2015**, 459, 135-142	3.3	63
453	Strong erbium luminescence in the near-infrared telecommunication window. *Chemical Physics Letters*, **2004**, 397, 447-450	2.5	63
452	Homogeneous liquid-liquid extraction of neodymium(III) by choline hexafluoroacetylacetonate in the ionic liquid choline bis(trifluoromethylsulfonyl)imide. *Dalton Transactions*, **2014**, 43, 11566-78	4.3	62
451	Solvometallurgical recovery of cobalt from lithium-ion battery cathode materials using deep-eutectic solvents. *Green Chemistry*, **2020**, 22, 4210-4221	10	61
450	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	61
449	Growth of sputter-deposited gold nanoparticles in ionic liquids. *Physical Chemistry Chemical Physics*, **2011**, 13, 13565-71	3.6	61
448	Pyrrolidinium ionic liquid crystals with pendant mesogenic groups. *Langmuir*, **2009**, 25, 5881-97	4	61
447	Mixed copper-lanthanide metallomesogens. *Chemistry - A European Journal*, **2002**, 8, 1101-5	4.8	61
446	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	3.9	60
445	A simple model for crystal field splittings of the 7F1 and 5D1 energy levels of Eu3+. *Chemical Physics Letters*, **1995**, 245, 75-78	2.5	60
444	Selective Extraction of Metals from Chloride Solutions with the Tetraoctylphosphonium Oleate Ionic Liquid. *Industrial & Engineering Chemistry Research*, **2015**, 54, 5149-5158	3.9	59
443	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	5.7	59
442	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	3.8	58
441	Synthesis, mesomorphism, and unusual magnetic behaviour of lanthanide complexes with perfluorinated counterions. *Chemistry - A European Journal*, **2001**, 7, 99-105	4.8	58
440	Reduction of the transition temperatures in mesomorphic lanthanide complexes by the exchange of counter-ions. *Journal of Materials Chemistry*, **1998**, 8, 1551-1553		58

439	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	11.9	57
438	Structure and mesomorphism of neodymium(III) alkanoates. *Inorganic Chemistry*, **2000**, 39, 5938-45	5.1	57
437	Dual-doped mesoporous carbon synthesized by a novel nanocasting method with superior catalytic activity for oxygen reduction. *Nano Energy*, **2016**, 26, 131-138	17.1	57
436	Separation of rare earths by split-anion extraction. *Hydrometallurgy*, **2015**, 156, 206-214	4	56
435	Stability of sputter-deposited gold nanoparticles in imidazolium ionic liquids. *Physical Chemistry Chemical Physics*, **2012**, 14, 5662-71	3.6	56
434	Reductive splitting of cellulose in the ionic liquid 1-butyl-3-methylimidazolium chloride. *ChemSusChem*, **2010**, 3, 91-6	8.3	55
433	Lanthanide-Containing Metallomesogens with Low Transition Temperatures. *Chemistry of Materials* , **2006**, 18, 3698-3704	9.6	55
432	Gadolinium DTPA-Monoamide Complexes Incorporated into Mixed Micelles as Possible MRI Contrast Agents. *European Journal of Inorganic Chemistry*, **2004**, 2004, 3538-3543	2.3	55
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429	Separation of rare earths and nickel by solvent extraction with two mutually immiscible ionic liquids. *RSC Advances*, **2014**, 4, 5753	3.7	54
428	Cobalt(II) complexes of nitrile-functionalized ionic liquids. *Chemistry - A European Journal*, **2010**, 16, 1849-58	5.8	54
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426	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	3.6	54
425	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	1.7	54
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423	Separation of cobalt and nickel using a thermomorphic ionic-liquid-based aqueous biphasic system. *Chemical Communications*, **2015**, 51, 15932-5	5.8	52
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421	Study of the luminescence of tris(2-thenoyltrifluoroacetonato)lanthanide(III) complexes covalently linked to 1,10-phenanthroline-functionalized hybrid sol–gel glasses. *Journal of Luminescence*, **2005**, 114, 77-84	3.8	52
420	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, 15131-40	3.4	51
419	Purification of indium by solvent extraction with undiluted ionic liquids. *Green Chemistry*, **2016**, 18, 4116-4127	10	51
418	Sulfonic acid functionalized ionic liquids for dissolution of metal oxides and solvent extraction of metal ions. *Chemical Communications*, **2015**, 51, 9006-9	5.8	50
417	Solvent Extraction of Scandium(III) by an Aqueous Biphasic System with a Nonfluorinated Functionalized Ionic Liquid. *Industrial & Engineering Chemistry Research*, **2015**, 54, 8988-8996	3.9	50
416	Thermochromism and switchable paramagnetism of cobalt(II) in thiocyanate ionic liquids. *Dalton Transactions*, **2015**, 44, 11286-9	4.3	50
415	A propeller-like uranyl metallomesogen. *Journal of the American Chemical Society*, **2005**, 127, 17602-3	16.4	50
414	Separation of cobalt and nickel by solvent extraction with two mutually immiscible ionic liquids. *Physical Chemistry Chemical Physics*, **2013**, 15, 9663-9	3.6	49
413	Visible-light-sensitized near-infrared luminescence from rare-earth complexes of the 9-hydroxyphenalen-1-one ligand. *Inorganic Chemistry*, **2006**, 45, 10416-8	5.1	48
412	Optical properties of -doped fluorophosphate glasses. *Journal of Physics Condensed Matter*, **1998**, 10, 7231-7241	1.8	48
411	Influence of the lanthanide contraction on the transition temperatures of rare-earth containing metallomesogens with Schiff base ligands. *Chemical Physics Letters*, **1999**, 300, 509-514	2.5	48
410	Towards magnetic liquid crystals. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1999**, 357, 3063-3077	3	48
409	Thermochromic properties of low-melting ionic uranyl isothiocyanate complexes. *Chemical Communications*, **2011**, 47, 4490-2	5.8	47
408	Lanthanide(III) nosylates as new nitration catalysts. *Tetrahedron Letters*, **2004**, 45, 3137-3139	2	47
407	Spectroscopic properties of uranyl chloride complexes in non-aqueous solvents. *Physical Chemistry Chemical Physics*, **2004**, 6, 3292-3298	3.6	47
406	Narrow bandwidth red electroluminescence from solution-processed lanthanide-doped polymer thin films. *Thin Solid Films*, **2005**, 491, 264-269	2.2	47
405	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	2.7	46
404	Acid-Stable Magnetic Core–Shell Nanoparticles for the Separation of Rare Earths. *Industrial & Engineering Chemistry Research*, **2014**, 53, 15222-15229	3.9	46

403	High current density electrodeposition from silver complex ionic liquids. *Physical Chemistry Chemical Physics*, **2012**, 14, 1706-15	3.6	46
402	Synthesis, characterization, and pharmacokinetic evaluation of a potential MRI contrast agent containing two paramagnetic centers with albumin binding affinity. *Chemistry - A European Journal*, **2005**, 11, 3077-86	4.8	45
401	Lanthanide(III) Dodecanoates: Structure, Thermal Behaviour, and Ion-Size Effects on the Mesomorphism. *European Journal of Inorganic Chemistry*, **2000**, 2000, 1429-1436	2.3	45
400	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	5.7	44
399	A heterobimetallic ruthenium-gadolinium complex as a potential agent for bimodal imaging. *Inorganic Chemistry*, **2011**, 50, 10005-14	5.1	44
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