

Ji Chen

List of Publications by Year in descending order

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117625

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#	ARTICLE	IF	CITATIONS
1	One-Step Ionic-Liquid-Assisted Electrochemical Synthesis of Ionic-Liquid-Functionalized Graphene Sheets Directly from Graphite. <i>Advanced Functional Materials</i> , 2008, 18, 1518-1525.	14.9	945
2	Chitosan(chitin)/cellulose composite biosorbents prepared using ionic liquid for heavy metal ions adsorption. <i>AIChE Journal</i> , 2009, 55, 2062-2069.	3.6	189
3	The inner synergistic effect of bifunctional ionic liquid extractant for solvent extraction. <i>Talanta</i> , 2010, 81, 1877-1883.	5.5	172
4	Removal of Cr(III, VI) by quaternary ammonium and quaternary phosphonium ionic liquids functionalized silica materials. <i>Chemical Engineering Journal</i> , 2010, 158, 108-114.	12.7	123
5	Application and Perspective of Ionic Liquids on Rare Earths Green Separation. <i>Separation Science and Technology</i> , 2012, 47, 223-232.	2.5	117
6	An overview on membrane strategies for rare earths extraction and separation. <i>Separation and Purification Technology</i> , 2018, 197, 70-85.	7.9	115
7	Application of Bifunctional Ionic Liquid Extractants [A336][CA-12] and [A336][CA-100] to the Lanthanum Extraction and Separation from Rare Earths in the Chloride Medium. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7534-7541.	3.7	105
8	Extraction and separation of heavy rare earth elements: A review. <i>Separation and Purification Technology</i> , 2021, 276, 119263.	7.9	96
9	A novel ammonium ionic liquid based extraction strategy for separating scandium from yttrium and lanthanides. <i>Separation and Purification Technology</i> , 2011, 81, 25-30.	7.9	94
10	Separation of scandium(III) from lanthanides(III) with room temperature ionic liquid based extraction containing Cyanex 925. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 267-272.	3.2	93
11	Application of Choline Chloride-xZnCl ₂ Ionic Liquids for Preparation of Biodiesel. <i>Chinese Journal of Chemical Engineering</i> , 2010, 18, 322-327.	3.5	88
12	Highly Selective Extraction and Separation of Rare Earths(III) Using Bifunctional Ionic Liquid Extractant. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1968-1975.	6.7	87
13	Recovery of rare earth elements from simulated fluorescent powder using bifunctional ionic liquid extractants (Bif-ILEs). <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 198-205.	3.2	86
14	Separation of cobalt and nickel using inner synergistic extraction from bifunctional ionic liquid extractant (Bif-ILE). <i>Journal of Hazardous Materials</i> , 2010, 182, 447-452.	12.4	74
15	Extraction and recovery of cerium(IV) and fluorine(I) from sulfuric solutions using bifunctional ionic liquid extractants. <i>Chemical Engineering Journal</i> , 2012, 179, 19-25.	12.7	74
16	Preparation and application of Aliquat 336 functionalized chitosan adsorbent for the removal of Pb(II). <i>Chemical Engineering Journal</i> , 2013, 232, 372-379.	12.7	72
17	An effective method for enhancing metal-ions TM selectivity of ionic liquid-based extraction system: Adding water-soluble complexing agent. <i>Talanta</i> , 2008, 74, 1071-1074.	5.5	70
18	Adsorption of phenol from water by N-butylimidazolium functionalized strongly basic anion exchange resin. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 462-468.	9.4	62

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19	The preparation of supported ionic liquids (SILs) and their application in rare metals separation. <i>Science China Chemistry</i> , 2012, 55, 1479-1487.	8.2	61
20	The preparation of sol-gel materials doped with ionic liquids and trialkyl phosphine oxides for Yttrium(III) uptake. <i>Analytica Chimica Acta</i> , 2007, 604, 107-113.	5.4	59
21	Biosorption of Methylene Blue from Aqueous Solution Using Lawny Grass Modified with Citric Acid. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3392-3399.	1.9	59
22	One-step molybdate ion assisted electrochemical synthesis of MoO_3 -decorated graphene sheets and its potential applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 15009.	6.7	50
23	Asymmetric Membrane Containing Ionic Liquid [A336][P507] for the Preconcentration and Separation of Heavy Rare Earth Lutetium. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2644-2650.	6.7	50
24	Extraction of mid-heavy rare earth metal ions from sulphuric acid media by ionic liquid [A336][P507]. <i>Hydrometallurgy</i> , 2016, 161, 152-159.	4.3	48
25	Application of P507 and isooctanol extraction system in recovery of scandium from simulated red mud leach solution. <i>Journal of Rare Earths</i> , 2019, 37, 1002-1008.	4.8	48
26	Direct synthesis of ordered N-methylimidazolium functionalized mesoporous silica as highly efficient anion exchanger of Cr(VI). <i>Journal of Materials Chemistry</i> , 2010, 20, 1553-1559.	6.7	44
27	Adsorption and separation of rhenium(VII) using N-methylimidazolium functionalized strong basic anion exchange resin. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 437-443.	3.2	43
28	Regulating and regenerating the valuable metals from the cathode materials in lithium-ion batteries by nickel-cobalt-manganese co-extraction. <i>Separation and Purification Technology</i> , 2021, 259, 118088.	7.9	42
29	Liquid-liquid extraction and recovery of Cerium(IV) and Phosphorus from sulfuric acid solution using Cyanex 923. <i>Separation and Purification Technology</i> , 2019, 209, 351-358.	7.9	41
30	Comprehensive appraisal and application of novel extraction system for heavy rare earth separation on the basis of coordination equilibrium effect. <i>Hydrometallurgy</i> , 2016, 165, 351-357.	4.3	39
31	Further improvement for separation of heavy rare earths by mixtures of acidic organophosphorus extractants. <i>Hydrometallurgy</i> , 2019, 188, 73-80.	4.3	39
32	Extraction and recovery of cerium(IV) along with fluorine(I) from bastnasite leaching liquor by DEHEHP in $[\text{C}_{18}\text{mim}]_6\text{PF}_6$. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 949-956.	3.2	38
33	A novel synergistic extraction system for the recovery of scandium (III) by Cyanex272 and Cyanex923 in sulfuric acid medium. <i>Separation and Purification Technology</i> , 2020, 233, 115977.	7.9	38
34	Extraction Behaviors of Heavy Rare Earths with Organophosphoric Extractants: The Contribution of Extractant Dimer Dissociation, Acid Ionization, and Complexation. A Quantum Chemistry Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2531-2543.	2.5	35
35	An integrated process for the separation and recovery of valuable metals from the spent $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ cathode materials. <i>Separation and Purification Technology</i> , 2020, 245, 116869.	7.9	34
36	Solvent impregnated resin prepared using ionic liquid Cyphos IL 104 for Cr(VI) removal. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 3126-3130.	4.2	32

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37	Aqueous Partition Mechanism of Organophosphorus Extractants in Rare Earths Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8424-8431.	3.7	32
38	Extraction of scandium(III) using ionic liquids functionalized solvent impregnated resins. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3284-3290.	2.6	31
39	Applying basic research on a dialkylphosphoric acid based task-specific ionic liquid for the solvent extraction and membrane separation of yttrium. <i>Separation and Purification Technology</i> , 2018, 207, 179-186.	7.9	28
40	Extraction mechanism of cerium(IV) in H ₂ SO ₄ /H ₃ PO ₄ system using bifunctional ionic liquid extractants. <i>Journal of Rare Earths</i> , 2013, 31, 1195-1201.	4.8	27
41	A polymer inclusion membrane functionalized by di(2-ethylhexyl) phosphinic acid with hierarchically ordered porous structure for Lutetium(III) transport. <i>Journal of Membrane Science</i> , 2020, 593, 117458.	8.2	26
42	Adsorption of Ce(IV) in nitric acid medium by imidazolium anion exchange resin. <i>Journal of Rare Earths</i> , 2011, 29, 969-973.	4.8	23
43	An engineeringâ€urpose preparation strategy for ammoniumâ€type ionic liquid with high purity. <i>AIChE Journal</i> , 2010, 56, 989-996.	3.6	22
44	Integrated Process To Recover NiMH Battery Anode Alloy with Selective Leaching and Multistage Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7551-7558.	3.7	22
45	Application of Porous N-Methylimidazolium Strongly Basic Anion Exchange Resins on Cr(VI) Adsorption from Electroplating Wastewater. <i>Separation Science and Technology</i> , 2012, 47, 256-263.	2.5	21
46	Highâ€performance polymerâ€supported extractants with phosphonate ligands for scandium(III) separation. <i>AIChE Journal</i> , 2016, 62, 2479-2489.	3.6	21
47	Enrichment of Aromatic Compounds Using Ionic Liquid and Ionic Liquid-Based Aqueous Biphasic Systems. <i>Separation Science and Technology</i> , 2010, 45, 663-669.	2.5	20
48	Recovery of Trace Rare Earths from High-Level Fe ³⁺ and Al ³⁺ Waste of Oil Shale Ash (Fe ³⁺ Al ³⁺ OSA). <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11645-11651.	3.7	20
49	Wet Air Oxidation and Kinetics of Cerium(III) of Rare Earth Hydroxides. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13790-13796.	3.7	19
50	Recovery of lanthanum and cerium from rare earth polishing powder wastes utilizing acid baking-water leaching-precipitation process. <i>Separation and Purification Technology</i> , 2021, 261, 118244.	7.9	18
51	Kinetics of cerium(IV) and fluoride extraction from sulfuric solutions using bifunctional ionic liquid extractant (Bif-ILE) [A336] [P204]. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1937-1945.	4.2	17
52	Recovery of fluorine utilizing complex properties of cerium(IV) to obtain high purity CeF ₃ by solvent extraction. <i>Separation and Purification Technology</i> , 2018, 191, 153-160.	7.9	17
53	Separation of heavy rare earths by di-(2-ethylhexyl) phosphinic acid: From fundamentals to cascade extraction simulation. <i>Minerals Engineering</i> , 2020, 149, 106232.	4.3	17
54	A novel synergistic extraction system for the recovery of scandium (III) from sulfuric acid medium with mixed Cyanex923 and N1923. <i>Separation and Purification Technology</i> , 2022, 283, 120223.	7.9	16

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55	Separation of ternary systems of hydrophilic ionic liquid with miscible organic compounds by RPLC with refractive index detection. <i>Journal of Separation Science</i> , 2008, 31, 1060-1066.	2.5	15
56	Phase Transformation and Thermal Decomposition Kinetics of a Mixed Rare Earth Concentrate. <i>ACS Omega</i> , 2018, 3, 17036-17041.	3.5	15
57	Toward greener separations of rare earths: Bifunctional ionic liquid extractants in biodiesel. <i>AIChE Journal</i> , 2010, 56, 2338-2346.	3.6	14
58	Solvent Extraction of Yttrium by Task-specific Ionic Liquids Bearing Carboxylic Group. <i>Chinese Journal of Chemical Engineering</i> , 2012, 20, 40-46.	3.5	12
59	Extraction mechanism of rare earths from chloride acidic solution with ammonium-bifunctionalized ionic liquid extractants. <i>Science China Chemistry</i> , 2016, 59, 532-537.	8.2	12
60	Preparation of REPO ₄ (RE=La, Gd) nanorods from an ionic liquid extraction system and luminescent properties of CePO ₄ :Tb ³⁺ . <i>Rare Metals</i> , 2019, 38, 122-127.	7.1	12
61	A novel neutral-base coupling synergistic extraction system of Cyanex923 and primary amine N1923 for the recovery of cerium(IV) and fluorine from sulfuric acid medium. <i>Separation and Purification Technology</i> , 2021, 258, 118026.	7.9	12
62	Application of N-methylimidazolium functionalized anion exchange resin containing NaOH for production of biodiesel. <i>Fuel Processing Technology</i> , 2011, 92, 1328-1332.	7.2	11
63	Ionic liquids assisted synthesis and luminescence properties of Ca ₅ (PO ₄) ₃ Cl:Ce ³⁺ ,Tb ³⁺ nanostructures. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	11
64	Extraction Kinetics of Lanthanum in Chloride Medium by Bifunctional Ionic Liquid [A336][CA-12] Using a Constant Interfacial Cell with Laminar Flow. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 1174-1177.	3.5	11
65	Solvent extraction of titanium(IV) from sulfuric acid solution with Cyanex923 and its application in leach liquor of red mud. <i>Separation and Purification Technology</i> , 2021, 277, 119470.	7.9	11
66	Deep insights into the solution and interface behaviors in heavy rare earth extraction: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2019, 296, 111790.	4.9	10
67	A preliminary study of polymer inclusion membrane for lutetium(III) separation and membrane regeneration. <i>Journal of Rare Earths</i> , 2021, 39, 1256-1263.	4.8	10
68	Ionic liquid-based hydrothermal synthesis and luminescent properties of CaF ₂ :Ce ³⁺ /Mn ²⁺ nanocrystals. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	8
69	Ionic liquids as novel spectroscopic solvents for Eu(III)-containing complex. <i>Journal of Rare Earths</i> , 2011, 29, 915-919.	4.8	6
70	Thermal decomposition mechanism of low-content-fluorite Bayan Obo rare earth concentrate roasted with sodium carbonate and its consequent separation study. <i>Journal of Rare Earths</i> , 2020, 38, 994-1002.	4.8	6
71	An innovative technique for the separation of ion-adsorption high yttrium rare earth ore by Er (III) / Tm (III) grouping first. <i>Separation and Purification Technology</i> , 2022, 280, 119929.	7.9	6
72	Interface mechanism of a rapid and mild aqueous-organic method to prepare CePO ₄ nanostructures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 444, 246-251.	4.7	5

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73	Recovery of cerium(IV) in acidic nitrate solutions by solvent extraction with a novel extractant tris(2-ethylhexyl)phosphine oxide. <i>Hydrometallurgy</i> , 2019, 190, 105155.	4.3	5
74	High-Efficiency Removal of Calcium and Magnesium from Lithium-Concentrated Solution via Counter-Current Extraction Using Di-(2-ethylhexyl)phosphinic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 967-974.	6.7	4
75	Applying Aqueous Biphasic Systems for Partitioning N-Methylimidazolium Grafted Merrifield Resin Microparticles. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 653-664.	2.0	3
76	Solubilization behaviors of interfacial lutetium-extractant complex in a solvent extraction system. <i>Journal of Rare Earths</i> , 2018, 36, 505-512.	4.8	3
77	Thermodynamic and application study of complicated extraction system $Ce(IV) \sim HF \sim H_3BO_3 \sim H_2SO_4$ using Cyanex 923. <i>Journal of Rare Earths</i> , 2021, 39, 1117-1125.	4.8	2