

# Ji Chen

## List of Publications by Year in descending order

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77  
papers

4,063  
citations

117625

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118850

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docs citations

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times ranked

4297  
citing authors

#	ARTICLE	IF	CITATIONS
1	An innovative technique for the separation of ion-adsorption high yttrium rare earth ore by Er (III) / Tm (III) grouping first. Separation and Purification Technology, 2022, 280, 119929.	7.9	6
2	A novel synergistic extraction system for the recovery of scandium (III) from sulfuric acid medium with mixed Cyanex923 and N1923. Separation and Purification Technology, 2022, 283, 120223.	7.9	16
3	High-Efficiency Removal of Calcium and Magnesium from Lithium-Concentrated Solution via Counter-Current Extraction Using Di-(2-ethylhexyl)phosphinic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 967-974.	6.7	4
4	A preliminary study of polymer inclusion membrane for lutetium(III) separation and membrane regeneration. Journal of Rare Earths, 2021, 39, 1256-1263.	4.8	10
5	Regulating and regenerating the valuable metals from the cathode materials in lithium-ion batteries by nickel-cobalt-manganese co-extraction. Separation and Purification Technology, 2021, 259, 118088.	7.9	42
6	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. Separation and Purification Technology, 2021, 258, 118026.	7.9	12
7	Thermodynamic and application study of complicated extraction system Ce(IV)â€“HFâ€“H3BO3â€“H2SO4 using Cyanex 923. Journal of Rare Earths, 2021, 39, 1117-1125.	4.8	2
8	Recovery of lanthanum and cerium from rare earth polishing powder wastes utilizing acid baking-water leaching-precipitation process. Separation and Purification Technology, 2021, 261, 118244.	7.9	18
9	Extraction and separation of heavy rare earth elements: A review. Separation and Purification Technology, 2021, 276, 119263.	7.9	96
10	Solvent extraction of titanium(IV) from sulfuric acid solution with Cyanex923 and its application in leach liquor of red mud. Separation and Purification Technology, 2021, 277, 119470.	7.9	11
11	A polymer inclusion membrane functionalized by di(2-ethylhexyl) phosphinic acid with hierarchically ordered porous structure for Lutetium(III) transport. Journal of Membrane Science, 2020, 593, 117458.	8.2	26
12	A novel synergistic extraction system for the recovery of scandium (III) by Cyanex272 and Cyanex923 in sulfuric acid medium. Separation and Purification Technology, 2020, 233, 115977.	7.9	38
13	Thermal decomposition mechanism of low-content-fluorite BayanÂObo rare earth concentrate roasted with sodium carbonate and its consequent separation study. Journal of Rare Earths, 2020, 38, 994-1002.	4.8	6
14	Separation of heavy rare earths by di-(2-ethylhexyl) phosphinic acid: From fundamentals to cascade extraction simulation. Minerals Engineering, 2020, 149, 106232.	4.3	17
15	An integrated process for the separation and recovery of valuable metals from the spent LiNi0.5Co0.2Mn0.3O2 cathode materials. Separation and Purification Technology, 2020, 245, 116869.	7.9	34
16	Liquid-liquid extraction and recovery of Cerium(IV) and Phosphorus from sulfuric acid solution using Cyanex 923. Separation and Purification Technology, 2019, 209, 351-358.	7.9	41
17	Application of P507 and isoctanol extraction system in recovery of scandium from simulated red mud leach solution. Journal of Rare Earths, 2019, 37, 1002-1008.	4.8	48
18	Deep insights into the solution and interface behaviors in heavy rare earth extraction: A molecular dynamics study. Journal of Molecular Liquids, 2019, 296, 111790.	4.9	10

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19	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
20	Further improvement for separation of heavy rare earths by mixtures of acidic organophosphorus extractants. <i>Hydrometallurgy</i> , 2019, 188, 73-80.	4.3	39
21	Preparation of REPO <sub>4</sub> (RE=La-Gd) nanorods from an ionic liquid extraction system and luminescent properties of CePO <sub>4</sub> :Tb <sup>3+</sup> . <i>Rare Metals</i> , 2019, 38, 122-127.	7.1	12
22	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
23	An overview on membrane strategies for rare earths extraction and separation. <i>Separation and Purification Technology</i> , 2018, 197, 70-85.	7.9	115
24	Recovery of fluorine utilizing complex properties of cerium(IV) to obtain high purity CeF <sub>3</sub> by solvent extraction. <i>Separation and Purification Technology</i> , 2018, 191, 153-160.	7.9	17
25	Phase Transformation and Thermal Decomposition Kinetics of a Mixed Rare Earth Concentrate. <i>ACS Omega</i> , 2018, 3, 17036-17041.	3.5	15
26	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
27	Integrated Process To Recover NiMH Battery Anode Alloy with Selective Leaching and Multistage Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 7551-7558.	3.7	22
28	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
29	High-performance polymer-supported extractants with phosphonate ligands for scandium(III) separation. <i>AIChE Journal</i> , 2016, 62, 2479-2489.	3.6	21
30	Aqueous Partition Mechanism of Organophosphorus Extractants in Rare Earths Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 8424-8431.	3.7	32
31	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
32	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
33	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
34	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
35	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
36	Interface mechanism of a rapid and mild aqueous-organic method to prepare CePO <sub>4</sub> nanostructures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 444, 246-251.	4.7	5

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37	Wet Air Oxidation and Kinetics of Cerium(III) of Rare Earth Hydroxides. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 13790-13796.	3.7	19
38	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
39	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
40	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
41	Extraction mechanism of cerium(IV) in H <sub>2</sub> SO <sub>4</sub> /H <sub>3</sub> PO <sub>4</sub> system using bifunctional ionic liquid extractants. <i>Journal of Rare Earths</i> , 2013, 31, 1195-1201.	4.8	27
42	Ionic liquids assisted synthesis and luminescence properties of Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cl:Ce <sup>3+</sup> ,Tb <sup>3+</sup> nanostructures. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	11
43	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
44	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
45	Ionic liquid-based hydrothermal synthesis and luminescent properties of CaF <sub>2</sub> :Ce <sup>3+</sup> /Mn <sup>2+</sup> nanocrystals. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	8
46	Application and Perspective of Ionic Liquids on Rare Earths Green Separation. <i>Separation Science and Technology</i> , 2012, 47, 223-232.	2.5	117
47	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
48	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
49	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
50	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
51	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
52	One-step molybdate ion assisted electrochemical synthesis of $\text{I}^{\pm}$ -MoO <sub>3</sub> -decorated graphene sheets and its potential applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 15009.	6.7	50
53	Biosorption of Methylene Blue from Aqueous Solution Using Lawny Grass Modified with Citric Acid. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 3392-3399.	1.9	59
54	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 &amp; Engineering Chemistry Research</i> , 2011, 50, 7534-7541.	3.7	105

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55	A novel ammonium ionic liquid based extraction strategy for separating scandium from yttrium and lanthanides. Separation and Purification Technology, 2011, 81, 25-30.	7.9	94
56	Ionic liquids as novel spectroscopic solvents for Eu(III)-containing complex. Journal of Rare Earths, 2011, 29, 915-919.	4.8	6
57	Adsorption of Ce(IV) in nitric acid medium by imidazolium anion exchange resin. Journal of Rare Earths, 2011, 29, 969-973.	4.8	23
58	Adsorption of phenol from water by N-butylimidazolium functionalized strongly basic anion exchange resin. Journal of Colloid and Interface Science, 2011, 364, 462-468.	9.4	62
59	Application of N-methylimidazolium functionalized anion exchange resin containing NaOH for production of biodiesel. Fuel Processing Technology, 2011, 92, 1328-1332.	7.2	11
60	Extraction of scandium(III) using ionic liquids functionalized solvent impregnated resins. Journal of Applied Polymer Science, 2011, 120, 3284-3290.	2.6	31
61	An engineering purpose preparation strategy for ammonium type ionic liquid with high purity. AIChE Journal, 2010, 56, 989-996.	3.6	22
62	Removal of Cr(III, VI) by quaternary ammonium and quaternary phosphonium ionic liquids functionalized silica materials. Chemical Engineering Journal, 2010, 158, 108-114.	12.7	123
63	Application of Choline Chloride·xZnCl <sub>2</sub> Ionic Liquids for Preparation of Biodiesel. Chinese Journal of Chemical Engineering, 2010, 18, 322-327.	3.5	88
64	Toward greener separations of rare earths: Bifunctional ionic liquid extractants in biodiesel. AIChE Journal, 2010, 56, 2338-2346.	3.6	14
65	Separation of cobalt and nickel using inner synergistic extraction from bifunctional ionic liquid extractant (Bif-ILE). Journal of Hazardous Materials, 2010, 182, 447-452.	12.4	74
66	Applying Aqueous Biphasic Systems for Partitioning N-Methylimidazolium Grafted Merrifield Resin Microparticles. Solvent Extraction and Ion Exchange, 2010, 28, 653-664.	2.0	3
67	Enrichment of Aromatic Compounds Using Ionic Liquid and Ionic Liquid-Based Aqueous Biphasic Systems. Separation Science and Technology, 2010, 45, 663-669.	2.5	20
68	Recovery of Trace Rare Earths from High-Level Fe <sup>3+</sup> and Al <sup>3+</sup> Waste of Oil Shale Ash (Fe <sup>3+</sup> -Al <sup>3+</sup> -OSA). Industrial & Engineering Chemistry Research, 2010, 49, 11645-11651.	3.7	20
69	Direct synthesis of ordered N-methylimidazolium functionalized mesoporous silica as highly efficient anion exchanger of Cr(VI). Journal of Materials Chemistry, 2010, 20, 1553-1559.	6.7	44
70	The inner synergistic effect of bifunctional ionic liquid extractant for solvent extraction. Talanta, 2010, 81, 1877-1883.	5.5	172
71	Chitosan(chitin)/cellulose composite biosorbents prepared using ionic liquid for heavy metal ions adsorption. AIChE Journal, 2009, 55, 2062-2069.	3.6	189
72	Extraction and recovery of cerium(IV) along with fluorine(I) from bastnasite leaching liquor by DEHEHP in [C <sub>8</sub> mim]PF <sub>6</sub> . Journal of Chemical Technology and Biotechnology, 2009, 84, 949-956.	3.2	38

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73	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
74	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
75	An effective method for enhancing metal-ions™ selectivity of ionic liquid-based extraction system: Adding water-soluble complexing agent. <i>Talanta</i> , 2008, 74, 1071-1074.	5.5	70
76	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
77	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