

Junmei Zhao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Superior Na ⁺ Storage Performance of Low-Temperature-Synthesized Na ₃ (VO _{1-x} PO ₄) ₂ F _{1+2x} Nanoparticles for Na ⁺ Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9911-9916.	13.8	191
2	Scalable Room-Temperature Synthesis of Multi-shelled Na ₃ (VOPO ₄) ₂ F Microsphere Cathodes. <i>Joule</i> , 2018, 2, 2348-2363.	24.0	128
3	A Novel NASICON-Typed Na ₄ VMn _{0.5} Fe _{0.5} (PO ₄) ₃ Cathode for High-Performance Na ⁺ Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100729.	19.5	108
4	Rapid mechanochemical synthesis of polyanionic cathode with improved electrochemical performance for Na-ion batteries. <i>Nature Communications</i> , 2021, 12, 2848.	12.8	108
5	Synergistic extraction and separation of yttrium from heavy rare earths using mixture of sec-octylphenoxy acetic acid and bis(2,4,4-trimethylpentyl)phosphinic acid. <i>Analytica Chimica Acta</i> , 2005, 533, 83-88.	5.4	106
6	Mn-Rich Phosphate Cathodes for Na-Ion Batteries with Superior Rate Performance. <i>ACS Energy Letters</i> , 2022, 7, 97-107.	17.4	91
7	pH-regulative synthesis of Na ₃ (VPO ₄) ₂ F ₃ nanoflowers and their improved Na cycling stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7178-7184.	10.3	84
8	An ionic liquid-based synergistic extraction strategy for rare earths. <i>Green Chemistry</i> , 2015, 17, 2981-2993.	9.0	77
9	A phase-transfer assisted solvo-thermal strategy for low-temperature synthesis of Na ₃ (VO _{1-x} PO ₄) ₂ F _{1+2x} cathodes for sodium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 7160-7163.	4.1	66
10	Reversible Activation of V ⁴⁺ /V ⁵⁺ Redox Couples in NASICON Phosphate Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	65
11	Adsorptive recovery of vanadium(V) from chromium(VI)-containing effluent by Zr(IV)-loaded orange juice residue. <i>Chemical Engineering Journal</i> , 2014, 248, 79-88.	12.7	63
12	Adsorption of rare earths (III) by calcium alginate-poly glutamic acid hybrid gels. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 969-977.	3.2	62
13	Extraction and separation of cerium(IV) from nitric acid solutions containing thorium(IV) and rare earths(III) by DEHEHP. <i>Journal of Alloys and Compounds</i> , 2004, 374, 438-441.	5.5	53
14	Carboxymethyl chitosan entrapped by silica: preparation and adsorption behaviour toward neodymium (III) ions. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 317-325.	3.2	52
15	Adsorption Properties toward Trivalent Rare Earths by Alginate Beads Doping with Silica. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3453-3461.	3.7	51
16	Ionic liquid-based synergistic extraction of rare earths nitrates without diluent: Typical ion-association mechanism. <i>Separation and Purification Technology</i> , 2017, 179, 349-356.	7.9	37
17	Comprehensive Studies on the Hydrothermal Strategy for the Synthesis of Na ₃ (VO _{1-x}) ₂ F _{1+2x} (0 ≤ x ≤ 1) and their Na ⁺ Storage Performance. <i>Small Methods</i> , 2019, 3, 1800111.	12.7	33
18	Solvent-free mechanochemical synthesis of Na-rich Prussian white cathodes for high-performance Na-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 131083.	12.7	33

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19	Controlled Synthesis of Na ₃ (VOPO ₄) ₂ F Cathodes with an Ultralong Cycling Performance. ACS Applied Energy Materials, 2019, 2, 7474-7482.	5.1	31
20	O ₃ -NaFe _{(1/3)Ni_{1/3}Mn_{1/3}Al_xO₂} Cathodes with Improved Air Stability for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 33015-33023.	8.0	31
21	Liquid-Liquid Extraction of Cerium(IV) from Nitric Acid Media by Di(2-Ethylhexyl) 2-Ethylhexyl Phosphonate (DEHEHP). Solvent Extraction and Ion Exchange, 2004, 22, 429-447.	2.0	30
22	Monodisperse Iron Phosphate Nanospheres: Preparation and Application in Energy Storage. ChemSusChem, 2012, 5, 1495-1500.	6.8	30
23	Recycling Cathodes from Spent Lithium-Ion Batteries Based on the Selective Extraction of Lithium. ACS Sustainable Chemistry and Engineering, 2021, 9, 10196-10204.	6.7	23
24	Revisiting of Tetragonal NaVPO ₄ F: A High Energy Density Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 30510-30519.	8.0	22
25	Investigation of three-liquid-phase extraction systems for the separation of Ti(IV), Fe(III) and Mg(II). Separation and Purification Technology, 2010, 76, 191-197.	7.9	20
26	Size-controlled synthesis and morphology evolution of bismuth trifluoridene nanocrystals via a novel solvent extraction route. Nanoscale, 2013, 5, 518-522.	5.6	20
27	Coordination Reactions in the Extraction of Cerium(IV) and Fluorine(I) by DEHEHP from Mixed Nitric Acid and Hydrofluoric Acid Solutions. Solvent Extraction and Ion Exchange, 2004, 22, 813-831.	2.0	18
28	Extraction of Rare Earths(III) from Nitrate Medium with Di(2-Ethylhexyl) 2-Ethylhexyl Phosphonate and Synergistic Extraction Combined with 1-Phenyl-3-Methyl-4-Benzoyl-Pyrazolone-5. Separation Science and Technology, 2006, 41, 3047-3063.	2.5	18
29	Interfacial behavior of DEHEHP and the kinetics of cerium(IV) extraction in nitrate media. Journal of Colloid and Interface Science, 2006, 294, 429-435.	9.4	18
30	Synergistic extraction of rare earths(III) from chloride medium with mixtures of 1-phenyl-3-methyl-4-benzoyl-pyrazolone-5 and di-(2-ethylhexyl)-2-ethylhexylphosphonate. Journal of Chemical Technology and Biotechnology, 2006, 81, 1384-1390.	3.2	17
31	Block copolymer micellization induced microphase mass transfer: Partition of Pd(II), Pt(IV) and Rh(III) in three-liquid-phase systems of S2O1-EOPO-Na2SO4-H2O. Journal of Colloid and Interface Science, 2011, 362, 228-234.	9.4	17
32	Large Scale One-Pot Synthesis of Monodispersed Na ₃ (VOPO ₄) ₂ F Cathode for Na-Ion Batteries. Energy Material Advances, 2022, 2022, .	11.0	16
33	Kinetics of Cerium(IV) Extraction with DEHEHP From HNO ₃ -HF Medium Using a Constant Interfacial Cell with Laminar Flow. Solvent Extraction and Ion Exchange, 2006, 24, 165-176.	2.0	15
34	Preparation of Several Alginate Matrix Gel Beads and their Adsorption Properties Towards Rare Earths (III). Waste and Biomass Valorization, 2013, 4, 665-674.	3.4	15
35	Regulated Synthesis of NaVOPO ₄ with an Enhanced Conductive Network as a High-Performance Cathode for Aqueous Na-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 6841-6851.	8.0	12
36	Distribution Behaviors of Light Rare Earths by Di-(2-ethylhexyl) 2-Ethylhexyl Phosphonate in Kerosene under the Action of a Self-Salting-Out Effect. Industrial & Engineering Chemistry Research, 2014, 53, 1598-1605.	3.7	11

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37	Preparation of Double Carboxylic Corn Stalk Gels and Their Adsorption Properties Towards Rare Earths (III). <i>Waste and Biomass Valorization</i> , 2018, 9, 1945-1954.	3.4	9
38	One-Step Synthesis of Carbon-Coated Na ₃ (VOPO ₄) ₂ F Using Biomass as a Reducing Agent and Their Electrochemical Properties. <i>Waste and Biomass Valorization</i> , 2020, 11, 2201-2209.	3.4	7
39	Preferential Extraction of Lithium from Spent Cathodes and the Regeneration of Layered Oxides for Li/Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24255-24264.	8.0	7
40	A phase transfer assisted solvo-thermal strategy for the synthesis of RE ₃ and Ln ³⁺ -doped RE ₃ nano-/microcrystals. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 171-178.	9.4	6
41	Extraction of rare earths by undiluted [P666,14][NO ₃] and DEHEHP, and the recovery of rare earths from lamp phosphors. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1518-1525.	3.0	5
42	A General Phase-Transfer Protocol for Mineral Acids and Its Application in the Large-Scale Synthesis of Highly Nanoporous Iron Phosphate in Nonaqueous Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12025-12030.	3.7	2
43	Rapid and solvent-free mechanochemical synthesis of Na iron hexacyanoferrate for high-performance Na-ion batteries. <i>Materials Today Energy</i> , 2022, 27, 101027.	4.7	1