

Zhi-yong Ji

List of Publications by Year in descending order

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430754

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#	ARTICLE	IF	CITATIONS
1	Preliminary study on recovering lithium from high Mg ²⁺ /Li ⁺ ratio brines by electrodialysis. Separation and Purification Technology, 2017, 172, 168-177.	3.9	156
2	Development of recovering lithium from brines by selective-electrodialysis: Effect of coexisting cations on the migration of lithium. Journal of Membrane Science, 2018, 548, 408-420.	4.1	151
3	Removal of ammonium from wastewater using calcium form clinoptilolite. Journal of Hazardous Materials, 2007, 141, 483-488.	6.5	117
4	Study on lithium extraction from brines based on LiMn ₂ O ₄ /Li _{1-x} Mn ₂ O ₄ by electrochemical method. Electrochimica Acta, 2017, 252, 350-361.	2.6	115
5	Prefractionation of LiCl from concentrated seawater/salt lake brines by electrodialysis with monovalent selective ion exchange membranes. Journal of Cleaner Production, 2018, 193, 338-350.	4.6	113
6	Highly and Stably Water Permeable Thin Film Nanocomposite Membranes Doped with MIL-101 (Cr) Nanoparticles for Reverse Osmosis Application. Materials, 2016, 9, 870.	1.3	90
7	Effect of coexisting ions on recovering lithium from high Mg ²⁺ /Li ⁺ ratio brines by selective-electrodialysis. Separation and Purification Technology, 2018, 207, 1-11.	3.9	89
8	Preparation of titanium-base lithium ionic sieve with sodium persulfate as eluent and its performance. Chemical Engineering Journal, 2017, 328, 768-775.	6.6	51
9	Effective Recycling Performance of Li ⁺ Extraction from Spinel-Type LiMn ₂ O ₄ with Persulfate. Industrial & Engineering Chemistry Research, 2014, 53, 9889-9896.	1.8	45
10	Treatment of wastewater containing 2-methoxyphenol by persulfate with thermal and alkali synergistic activation: Kinetics and mechanism. Chemical Engineering Journal, 2020, 380, 122411.	6.6	45
11	Separating and recovering lithium from brines using selective-electrodialysis: Sensitivity to temperature. Chemical Engineering Research and Design, 2018, 140, 116-127.	2.7	43
12	Effective treatment of levofloxacin wastewater by an electro-Fenton process with hydrothermal-activated graphite felt as cathode. Environmental Pollution, 2020, 266, 115348.	3.7	42
13	Lithium extraction process on spinel-type LiMn ₂ O ₄ and characterization based on the hydrolysis of sodium persulfate. Solid State Ionics, 2017, 301, 116-124.	1.3	39
14	Effect of ions (K ⁺ , Mg ²⁺ , Ca ²⁺ and SO ₄ ²⁻) and temperature on energy generation performance of reverse electrodialysis stack. Electrochimica Acta, 2018, 290, 282-290.	2.6	32
15	A different approach for seawater decalcification pretreatment using carbon dioxide as precipitator. Desalination, 2013, 322, 151-158.	4.0	23
16	Li ⁺ Extraction from Spinel-Type LiMn ₂ O ₄ in Different Eluents and Li ⁺ Insertion in the Aqueous Phase. Solvent Extraction and Ion Exchange, 2016, 34, 549-557.	0.8	23
17	Investigation of electrochemical oxidation technology for selective bromine extraction in comprehensive utilization of concentrated seawater. Separation and Purification Technology, 2020, 248, 117108.	3.9	23
18	Electrochemical lithium extraction based on "rocking-chair" electrode system with high energy-efficient: The driving mode of constant current-constant voltage. Desalination, 2022, 533, 115767.	4.0	21

#	ARTICLE	IF	CITATIONS
19	Effect of Impurity Ions in the Electrosorption Lithium Extraction Process: Generation and Restriction of Selective Concentration Polarization. ACS Sustainable Chemistry and Engineering, 2020, 8, 11834-11844.	3.2	20
20	Preparation of Li ₂ CO ₃ from high Mg ²⁺ /Li ⁺ brines based on selective-electrodialysis with feed and bleed mode. Journal of Environmental Chemical Engineering, 2021, 9, 106635.	3.3	20
21	The preparation of calcium carbonate with different morphologies under the effect of alkanolamide 6502. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 588, 124392.	2.3	18
22	Development of electrochemical lithium extraction based on a rocking chair system of LiMn ₂ O ₄ /Li _{1-x} Mn ₂ O ₄ : Self-driven plus external voltage driven. Separation and Purification Technology, 2021, 259, 118154.	3.9	17
23	Efficient degradation of 2-methoxyphenol using heterogeneous-homogeneous synergistic activated persulfate with modified clinoptilolite. Chemical Engineering Journal, 2020, 400, 125863.	6.6	16
24	Establishment of PPy-derived carbon encapsulated LiMn ₂ O ₄ film electrode and its performance for efficient Li ⁺ electrosorption. Separation and Purification Technology, 2022, 280, 119726.	3.9	16
25	Recovery of K ⁺ from concentrates from brackish and seawater desalination with modified clinoptilolite. Desalination and Water Treatment, 2016, 57, 6829-6837.	1.0	14
26	Wet Flue Gas Desulfurization Process: Phase Equilibrium of a Quaternary System at Various Temperatures. Chemical Engineering and Technology, 2013, 36, 1359-1364.	0.9	9
27	Performance parameters analysis of reverse electrodialysis process: Sensitive to the repeating unit pairs, inflow velocity and feed concentration. International Journal of Energy Research, 2020, 44, 7093-7102.	2.2	9
28	Enhanced oxidative removal of NO by UV/in situ Fenton: Factors, kinetics and simulation. Science of the Total Environment, 2021, 778, 146202.	3.9	9
29	Response of salinity gradient power generation to inflow mode and temperature difference by reverse electrodialysis. Journal of Environmental Management, 2022, 303, 114124.	3.8	8
30	Highly efficient recovery of bromine from shale gas wastewater by selective electrochemical oxidation. Journal of Environmental Chemical Engineering, 2022, 10, 107946.	3.3	8
31	Effective and continuous degradation of levofloxacin via the graphite felt electrode loaded with Fe ₃ O ₄ . Separation and Purification Technology, 2022, 281, 119902.	3.9	7
32	Synthesis and characterization of a plat sheet potassium ion sieve membrane and its performances for separation potassium. Separation and Purification Technology, 2019, 212, 834-842.	3.9	6
33	Phase equilibrium of the ternary system of NH ₄ Cl-CaCl ₂ -H ₂ O at 50°C. Frontiers of Chemical Engineering in China, 2010, 4, 75-77.	0.6	5
34	Influences of additives on the crystal habit of potassium chloride. Frontiers of Chemical Engineering in China, 2010, 4, 78-81.	0.6	5
35	Stable phase equilibria in the ternary system (Na ₂ SO ₄ +Li ₂ SO ₄ +H ₂ O) at 308.15K and 313.15K. Fluid Phase Equilibria, 2015, 397, 81-86.	1.4	4
36	Effects of system parameters and residual ions on the oxidation removal of NO by Fenton method. Environmental Science and Pollution Research, 2021, 28, 2959-2971.	2.7	4

#	ARTICLE	IF	CITATIONS
37	Efficient treatment of pure terephthalic acid wastewater with Na ₂ S ₂ O ₈ based on thermal activation. Environmental Technology and Innovation, 2020, 19, 100897.	3.0	4