Chenxiao Jiang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11831213/publications.pdf

Version: 2024-02-01

52	2,417	236612	205818
papers	citations	25 h-index	48 g-index

52	52	52	1737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ion exchange membranes: New developments and applications. Journal of Membrane Science, 2017, 522, 267-291.	4.1	650
2	Electrodialysis of concentrated brine from RO plant to produce coarse salt and freshwater. Journal of Membrane Science, 2014, 450, 323-330.	4.1	160
3	Production of Lithium Hydroxide from Lake Brines through Electroâ€“Electrodialysis with Bipolar Membranes (EEDBM). Industrial & Engineering Chemistry Research, 2014, 53, 6103-6112.	1.8	140
4	Development of BPPO-based anion exchange membranes for electrodialysis desalination applications. Desalination, 2016, 391, 61-68.	4.0	83
5	Multistage-batch electrodialysis to concentrate high-salinity solutions: Process optimisation, water transport, and energy consumption. Journal of Membrane Science, 2019, 570-571, 245-257.	4.1	81
6	Selectrodialysis with bipolar membrane for the reclamation of concentrated brine from RO plant. Desalination, 2018, 442, 8-15.	4.0	77
7	Water electro-transport with hydrated cations in electrodialysis. Desalination, 2015, 365, 204-212.	4.0	72
8	A power free electrodialysis (PFED) for desalination. Desalination, 2017, 404, 138-146.	4.0	64
9	Quaternized membranes bearing zwitterionic groups for vanadium redox flow battery through a green route. Journal of Membrane Science, 2015, 483, 60-69.	4.1	56
10	Bipolar membrane electrodialysis in aquaâ€“ethanol medium: Production of salicylic acid. Journal of Membrane Science, 2015, 482, 76-82.	4.1	53
11	Asymmetric porous monovalent cation perm-selective membranes with an ultrathin polyamide selective layer for cations separation. Journal of Membrane Science, 2018, 557, 49-57.	4.1	53
12	Improving the water dissociation efficiency in a bipolar membrane with amino-functionalized MIL-101. Journal of Membrane Science, 2017, 524, 370-376.	4.1	50
13	Electrodialysis Process for the Recycling and Concentrating of Tetramethylammonium Hydroxide (TMAH) from Photoresist Developer Wastewater. Industrial & Engineering Chemistry Research, 2013, 52, 18356-18361.	1.8	49
14	Complexation Electrodialysis as a general method to simultaneously treat wastewaters with metal and organic matter. Chemical Engineering Journal, 2018, 348, 952-959.	6.6	48
15	Biomimetic Nanocones that Enable High Ion Permselectivity. Angewandte Chemie - International Edition, 2019, 58, 12646-12654.	7.2	47
16	Storable hydrogen production by Reverse Electro-Electrodialysis (REED). Journal of Membrane Science, 2017, 544, 397-405.	4.1	43
17	Anion exchange membranes from hot-pressed electrospun QPPOâ€“SiO2 hybrid nanofibers for acid recovery. Journal of Membrane Science, 2015, 480, 115-121.	4.1	42
18	Reclamation of Aniline Wastewater and CO₂ Capture Using Bipolar Membrane Electrodialysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5743-5751.	3.2	42

#	Article	IF	Citations
19	Diffusion dialysis membranes with semi-interpenetrating network for alkali recovery. Journal of Membrane Science, 2014, 451, 18-23.	4.1	40
20	An excellent method to produce morpholine by bipolar membrane electrodialysis. Separation and Purification Technology, 2013, 115, 100-106.	3.9	35
21	Fouling deposition as an effective approach for preparing monovalent selective membranes. Journal of Membrane Science, 2019, 580, 327-335.	4.1	33
22	Ammonia capture from wastewater with a high ammonia nitrogen concentration by water splitting and hollow fiber extraction. Chemical Engineering Science, 2020, 227, 115934.	1.9	31
23	A sustainable valorization of neopentyl glycol salt waste containing sodium formate via bipolar membrane electrodialysis. Separation and Purification Technology, 2021, 254, 117563.	3.9	31
24	Separation of methionine from the mixture with sodium carbonate using bipolar membrane electrodialysis. Journal of Membrane Science, 2016, 498, 48-56.	4.1	30
25	Simultaneous CO2 capture and amino acid production using bipolar membrane electrodialysis (BMED). Journal of Membrane Science, 2017, 542, 264-271.	4.1	30
26	Novel synthetic route to prepare doubly quaternized anion exchange membranes for diffusion dialysis application. Separation and Purification Technology, 2017, 189, 204-212.	3.9	27
27	Bipolar membrane electrodialysis for cleaner production of <scp>Nâ€methylated</scp> glycine derivative amino acids. AICHE Journal, 2020, 66, e17023.	1.8	26
28	Ionâ€â€œdistillationâ€•for isolating lithium from lake brine. AICHE Journal, 2022, 68, .	1.8	26
29	Ion exchange membranes for acid recovery: Diffusion Dialysis (DD) or Selective Electrodialysis (SED)?. Desalination, 2022, 531, 115690.	4.0	26
30	Acid recovery from molybdenum metallurgical wastewater via selective electrodialysis and nanofiltration. Separation and Purification Technology, 2022, 295, 121318.	3.9	22
31	Water-Dissociation-Assisted Electrolysis for Hydrogen Production in a Salinity Power Cell. ACS Sustainable Chemistry and Engineering, 2019, 7, 13023-13030.	3.2	21
32	Biomimetic Nanocones that Enable High Ion Permselectivity. Angewandte Chemie, 2019, 131, 12776-12784.	1.6	20
33	Bipolar membrane-assisted reverse electrodialysis for high power density energy conversion via acid-base neutralization. Journal of Membrane Science, 2022, 647, 120288.	4.1	19
34	Physical and chemical synergistic strategy: A facile approach to fabricate monovalent ion permselective membranes. Chemical Engineering Science, 2021, 245, 116873.	1.9	18
35	Ion exchange membrane related processes towards carbon capture, utilization and storage: Current trends and perspectives. Separation and Purification Technology, 2022, 296, 121390.	3.9	18
36	Electro-Driven in Situ Construction of Functional Layer Using Amphoteric Molecule: The Role of Tryptophan in Ion Sieving. ACS Applied Materials & Interfaces, 2019, 11, 36626-36637.	4.0	17

#	Article	IF	Citations
37	One-pot preparation of anion exchange membranes from bromomethylated poly(2,6-dimethyl-1,4-phenylene oxide) for electrodialysis. Chemical Engineering Science, 2015, 135, 526-531.	1.9	16
38	An alkaline stable anion exchange membrane for electro-desalination. Desalination, 2021, 497, 114779.	4.0	16
39	Bipolar Membrane Electrodialysis for Cleaner Production of Gluconic Acid: Valorization of the Regenerated Base for the Upstream Enzyme Catalysis. Industrial & Engineering Chemistry Research, 2022, 61, 7634-7644.	1.8	15
40	Hybrid membranes from sulphonated poly (2, 6-dimethyl-1, 4-phenylene oxide) and sulphonated nano silica for alkali recovery. Journal of Membrane Science, 2016, 498, 201-207.	4.1	14
41	Bipolar membrane electrodialysis for clean production of <scp>Lâ€10â€camphorsulfonic</scp> acid: From laboratory to industrialization. AICHE Journal, 2022, 68, e17490.	1.8	13
42	In-Situ Combination of Bipolar Membrane Electrodialysis with Monovalent Selective Anion-Exchange Membrane for the Valorization of Mixed Salts into Relatively High-Purity Monoprotic and Diprotic Acids. Membranes, 2020, 10, 135.	1.4	12
43	Conversion of Potassium Chloride into Potassium Sulfate by Four-Compartment Electrodialysis: Batch Operation Process. Industrial & Engineering Chemistry Research, 2015, 54, 11937-11943.	1.8	11
44	Electrodialysis-Based Separation Technologies in the Food Industry. , 2019, , 349-381.		8
45	Multistage-batch bipolar membrane electrodialysis for base production from high-salinity wastewater. Frontiers of Chemical Science and Engineering, 2022, 16, 764-773.	2.3	6
46	A Sustainable Electrochemical Method for the Production of Vanadium Pentoxide Using Bipolar Membrane Electrodialysis. Industrial & Engineering Chemistry Research, 2022, 61, 8233-8241.	1.8	6
47	A Novel Anion Exchange Membrane for Bisulfite Anion Separation by Grafting a Quaternized Moiety through BPPO via Thermal-Induced Phase Separation. International Journal of Molecular Sciences, 2020, 21, 5782.	1.8	5
48	Ion-plus salinity gradient flow Battery. Chemical Engineering Science, 2022, 253, 117580.	1.9	5
49	Electrodialysis for the volume reduction of the simulated radionuclides containing seawater. Journal of Hazardous Materials, 2022, 439, 129601.	6.5	5
50	A Generalized Reverse-Electrodialysis Model Incorporating Both Continuous and Recycle Modes for Energy Harvesting From Salinity Gradient Power. IEEE Access, 2021, 9, 71626-71637.	2.6	3
51	<scp>Noteworthy</scp> issues for producing and transforming bioproducts by electrodalysis. Journal of Chemical Technology and Biotechnology, 2014, 89, 1437-1444.	1.6	2
52	Electrodialysis membrane technology for industrial wastewater treatment: recent advances. , 2022, , 265-315.		0