

# Chenxiao Jiang

## List of Publications by Year in descending order

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52  
papers

2,417  
citations

236833

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Bipolar membrane electrodialysis for clean production of <i>L</i> -lysine: From laboratory to industrialization. <i>AIChE Journal</i> , 2022, 68, e17490.	1.8	13
2	Bipolar Membrane Electrodialysis for Cleaner Production of Gluconic Acid: Valorization of the Regenerated Base for the Upstream Enzyme Catalysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 7634-7644.	1.8	15
3	Bipolar membrane-assisted reverse electrodialysis for high power density energy conversion via acid-base neutralization. <i>Journal of Membrane Science</i> , 2022, 647, 120288.	4.1	19
4	Ion-exchange distillation for isolating lithium from lake brine. <i>AIChE Journal</i> , 2022, 68, .	1.8	26
5	Ion-plus salinity gradient flow Battery. <i>Chemical Engineering Science</i> , 2022, 253, 117580.	1.9	5
6	Ion exchange membranes for acid recovery: Diffusion Dialysis (DD) or Selective Electrodialysis (SED)? <i>Desalination</i> , 2022, 531, 115690.	4.0	26
7	Multistage-batch bipolar membrane electrodialysis for base production from high-salinity wastewater. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 764-773.	2.3	6
8	Electrodialysis membrane technology for industrial wastewater treatment: recent advances. , 2022, , 265-315.		0
9	Acid recovery from molybdenum metallurgical wastewater via selective electrodialysis and nanofiltration. <i>Separation and Purification Technology</i> , 2022, 295, 121318.	3.9	22
10	A Sustainable Electrochemical Method for the Production of Vanadium Pentoxide Using Bipolar Membrane Electrodialysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 8233-8241.	1.8	6
11	Ion exchange membrane related processes towards carbon capture, utilization and storage: Current trends and perspectives. <i>Separation and Purification Technology</i> , 2022, 296, 121390.	3.9	18
12	Electrodialysis for the volume reduction of the simulated radionuclides containing seawater. <i>Journal of Hazardous Materials</i> , 2022, 439, 129601.	6.5	5
13	An alkaline stable anion exchange membrane for electro-desalination. <i>Desalination</i> , 2021, 497, 114779.	4.0	16
14	A sustainable valorization of neopentyl glycol salt waste containing sodium formate via bipolar membrane electrodialysis. <i>Separation and Purification Technology</i> , 2021, 254, 117563.	3.9	31
15	Physical and chemical synergistic strategy: A facile approach to fabricate monovalent ion permselective membranes. <i>Chemical Engineering Science</i> , 2021, 245, 116873.	1.9	18
16	A Generalized Reverse-Electrodialysis Model Incorporating Both Continuous and Recycle Modes for Energy Harvesting From Salinity Gradient Power. <i>IEEE Access</i> , 2021, 9, 71626-71637.	2.6	3
17	Bipolar membrane electrodialysis for cleaner production of <i>N</i> -methylated glycine derivative amino acids. <i>AIChE Journal</i> , 2020, 66, e17023.	1.8	26
18	A Novel Anion Exchange Membrane for Bisulfite Anion Separation by Grafting a Quaternized Moiety through BPPO via Thermal-Induced Phase Separation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5782.	1.8	5

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19	Ammonia capture from wastewater with a high ammonia nitrogen concentration by water splitting and hollow fiber extraction. <i>Chemical Engineering Science</i> , 2020, 227, 115934.	1.9	31
20	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. <i>Membranes</i> , 2020, 10, 135.	1.4	12
21	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie</i> , 2019, 131, 12776-12784.	1.6	20
22	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12646-12654.	7.2	47
23	Water-Dissociation-Assisted Electrolysis for Hydrogen Production in a Salinity Power Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13023-13030.	3.2	21
24	Electro-Driven in Situ Construction of Functional Layer Using Amphoteric Molecule: The Role of Tryptophan in Ion Sieving. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36626-36637.	4.0	17
25	Fouling deposition as an effective approach for preparing monovalent selective membranes. <i>Journal of Membrane Science</i> , 2019, 580, 327-335.	4.1	33
26	Electrodialysis-Based Separation Technologies in the Food Industry. , 2019, , 349-381.		8
27	Multistage-batch electrodialysis to concentrate high-salinity solutions: Process optimisation, water transport, and energy consumption. <i>Journal of Membrane Science</i> , 2019, 570-571, 245-257.	4.1	81
28	Asymmetric porous monovalent cation perm-selective membranes with an ultrathin polyamide selective layer for cations separation. <i>Journal of Membrane Science</i> , 2018, 557, 49-57.	4.1	53
29	Complexation Electrodialysis as a general method to simultaneously treat wastewaters with metal and organic matter. <i>Chemical Engineering Journal</i> , 2018, 348, 952-959.	6.6	48
30	Selectrodialysis with bipolar membrane for the reclamation of concentrated brine from RO plant. <i>Desalination</i> , 2018, 442, 8-15.	4.0	77
31	Storable hydrogen production by Reverse Electro-Electrodialysis (REED). <i>Journal of Membrane Science</i> , 2017, 544, 397-405.	4.1	43
32	Simultaneous CO <sub>2</sub> capture and amino acid production using bipolar membrane electrodialysis (BMED). <i>Journal of Membrane Science</i> , 2017, 542, 264-271.	4.1	30
33	Novel synthetic route to prepare doubly quaternized anion exchange membranes for diffusion dialysis application. <i>Separation and Purification Technology</i> , 2017, 189, 204-212.	3.9	27
34	A power free electrodialysis (PFED) for desalination. <i>Desalination</i> , 2017, 404, 138-146.	4.0	64
35	Ion exchange membranes: New developments and applications. <i>Journal of Membrane Science</i> , 2017, 522, 267-291.	4.1	650
36	Improving the water dissociation efficiency in a bipolar membrane with amino-functionalized MIL-101. <i>Journal of Membrane Science</i> , 2017, 524, 370-376.	4.1	50

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37	Reclamation of Aniline Wastewater and CO <sub>2</sub> Capture Using Bipolar Membrane Electrodialysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5743-5751.	3.2	42
38	Development of BPPO-based anion exchange membranes for electrodialysis desalination applications. Desalination, 2016, 391, 61-68.	4.0	83
39	Separation of methionine from the mixture with sodium carbonate using bipolar membrane electrodialysis. Journal of Membrane Science, 2016, 498, 48-56.	4.1	30
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	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
42	Anion exchange membranes from hot-pressed electrospun QPPO-SiO <sub>2</sub> hybrid nanofibers for acid recovery. Journal of Membrane Science, 2015, 480, 115-121.	4.1	42
43	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
44	Bipolar membrane electrodialysis in aqua-ethanol medium: Production of salicylic acid. Journal of Membrane Science, 2015, 482, 76-82.	4.1	53
45	Water electro-transport with hydrated cations in electrodialysis. Desalination, 2015, 365, 204-212.	4.0	72
46	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
47	Electrodialysis of concentrated brine from RO plant to produce coarse salt and freshwater. Journal of Membrane Science, 2014, 450, 323-330.	4.1	160
48	Noteworthy issues for producing and transforming bioproducts by electrodialysis. Journal of Chemical Technology and Biotechnology, 2014, 89, 1437-1444.	1.6	2
49	Production of Lithium Hydroxide from Lake Brines through Electro- Electrodialysis with Bipolar Membranes (EEDBM). Industrial & Engineering Chemistry Research, 2014, 53, 6103-6112.	1.8	140
50	Diffusion dialysis membranes with semi-interpenetrating network for alkali recovery. Journal of Membrane Science, 2014, 451, 18-23.	4.1	40
51	An excellent method to produce morpholine by bipolar membrane electrodialysis. Separation and Purification Technology, 2013, 115, 100-106.	3.9	35
52	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