Yan Zhao

List of Publications by Year
in descending order

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44 papers	1,821 citations	201385 27 h-index	264894 42 g-index
44 all docs	44 docs citations	44 times ranked	1251 citing authors

#	Article	IF	Citations
1	MOF-positioned polyamide membranes with a fishnet-like structure for elevated nanofiltration performance. Journal of Materials Chemistry A, 2019, 7, 16313-16322.	5.2	166
2	An anion exchange membrane modified by alternate electro-deposition layers with enhanced monovalent selectivity. Journal of Membrane Science, 2016, 520, 262-271.	4.1	141
3	The potential of Kevlar aramid nanofiber composite membranes. Journal of Materials Chemistry A, 2020, 8, 7548-7568.	5.2	114
4	Structure architecture of micro/nanoscale ZIF-L on a 3D printed membrane for a superhydrophobic and underwater superoleophobic surface. Journal of Materials Chemistry A, 2019, 7, 2723-2729.	5.2	79
5	Electric-pulse layer-by-layer assembled of anion exchange membrane with enhanced monovalent selectivity. Journal of Membrane Science, 2018, 548, 81-90.	4.1	73
6	Sulfonated reduced graphene oxide modification layers to improve monovalent anions selectivity and controllable resistance of anion exchange membrane. Journal of Membrane Science, 2017, 536, 167-175.	4.1	71
7	Technology-driven layer-by-layer assembly of a membrane for selective separation of monovalent anions and antifouling. Nanoscale, 2019, 11, 2264-2274.	2.8	70
8	A high flux organic solvent nanofiltration membrane from Kevlar aramid nanofibers with in situ incorporation of microspheres. Journal of Materials Chemistry A, 2018, 6, 22987-22997.	5.2	69
9	â€œSandwichâ€•like structure modified anion exchange membrane with enhanced monovalent selectivity and fouling resistant. Journal of Membrane Science, 2018, 556, 98-106.	4.1	66
10	A chemically assembled anion exchange membrane surface for monovalent anion selectivity and fouling reduction. Journal of Materials Chemistry A, 2019, 7, 6348-6356.	5.2	65
11	Metal-organic framework based membranes for selective separation of target ions. Journal of Membrane Science, 2021, 634, 119407.	4.1	60
12	Composite anti-scaling membrane made of interpenetrating networks of nanofibers for selective separation of lithium. Journal of Membrane Science, 2021, 618, 118668.	4.1	59
13	Tunable Nanoscale Interlayer of Graphene with Symmetrical Polyelectrolyte Multilayer Architecture for Lithium Extraction. Advanced Materials Interfaces, 2018, 5, 1701449.	1.9	57
14	A facile avenue to modify polyelectrolyte multilayers on anion exchange membranes to enhance monovalent selectivity and durability simultaneously. Journal of Membrane Science, 2017, 543, 310-318.	4.1	56
15	Integration of selectrodialysis and selectrodialysis with bipolar membrane to salt lake treatment for the production of lithium hydroxide. Desalination, 2019, 465, 1-12.	4.0	53
16	Formation of morphologically confined nanospaces via self-assembly of graphene and nanospheres for selective separation of lithium. Journal of Materials Chemistry A, 2018, 6, 18859-18864.	5.2	46
17	Robust Multilayer Grapheneâ€“Organic Frameworks for Selective Separation of Monovalent Anions. ACS Applied Materials & Interfaces, 2018, 10, 18426-18433.	4.0	44
18	Engineering of thermo-/pH-responsive membranes with enhanced gating coefficients, reversible behaviors and self-cleaning performance through acetic acid boosted microgel assembly. Journal of Materials Chemistry A, 2018, 6, 11874-11883.	5.2	42

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19	A durable and antifouling monovalent selective anion exchange membrane modified by polydopamine and sulfonated reduced graphene oxide. Separation and Purification Technology, 2018, 207, 116-123.	3.9	42
20	Electric field-based ionic control of selective separation layers. Journal of Materials Chemistry A, 2020, 8, 4244-4251.	5.2	40
21	Advanced ion transfer materials in electro-driven membrane processes for sustainable ion-resource extraction and recovery. Progress in Materials Science, 2022, 128, 100958.	16.0	36
22	Nanofiber Based Organic Solvent Anion Exchange Membranes for Selective Separation of Monovalent anions. ACS Applied Materials & Interfaces, 2020, 12, 7539-7547.	4.0	32
23	Alternating current enhanced deposition of a monovalent selective coating for anion exchange membranes with antifouling properties. Separation and Purification Technology, 2019, 229, 115807.	3.9	31
24	Thin and robust organic solvent cation exchange membranes for ion separation. Journal of Materials Chemistry A, 2019, 7, 13903-13909.	5.2	30
25	Recovery of chemically degraded polyethyleneimine by a re-modification method: prolonging the lifetime of cation exchange membranes. RSC Advances, 2016, 6, 16548-16554.	1.7	29
26	A continuous mode operation of bipolar membrane electrodialysis (BMED) for the production of high-pure choline hydroxide from choline chloride. Separation and Purification Technology, 2020, 233, 116054.	3.9	29
27	Self-assembled embedding of ion exchange materials into nanofiber-based hydrogel framework for fluoride capture. Chemical Engineering Journal, 2022, 431, 134201.	6.6	29
28	Mimicking the cell membrane: bio-inspired simultaneous functions with monovalent anion selectivity and antifouling properties of anion exchange membrane. Scientific Reports, 2016, 6, 37285.	1.6	27
29	Symmetrically recombined nanofibers in a high-selectivity membrane for cation separation in high temperature and organic solvent. Journal of Materials Chemistry A, 2019, 7, 20006-20012.	5.2	26
30	An integrated separation technology for high fluoride-containing wastewater treatment: Fluoride removal, membrane fouling behavior and control. Journal of Cleaner Production, 2022, 349, 131225.	4.6	21
31	Mussel-Inspired Monovalent Selective Cation Exchange Membranes Containing Hydrophilic MIL53(Al) Framework for Enhanced Ion Flux. Industrial & Engineering Chemistry Research, 2018, 57, 6275-6283.	1.8	19
32	Investigation of fluoride and silica removal from semiconductor wastewaters with a clean coagulation-ultrafiltration process. Chemical Engineering Journal, 2022, 438, 135562.	6.6	17
33	A review on nanofibrous separators towards enhanced mechanical properties for lithium-ion batteries. Composites Part B: Engineering, 2022, 243, 110105.	5.9	17
34	Ionic Control of Functional Zeolitic Imidazolate Framework-Based Membrane for Tailoring Selectivity toward Target Ions. ACS Applied Materials & Interfaces, 2022, 14, 11038-11049.	4.0	11
35	Effect of the bio-inspired modification of low-cost membranes with TiO2:ZnO as microbial fuel cell membranes. Chemosphere, 2022, 291, 132840.	4.2	10
36	Nitrate-Selective Anion Exchange Membranes Prepared using Discarded Reverse Osmosis Membranes as Support. Membranes, 2020, 10, 377.	1.4	9

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37	Membrane bioreactors for hospital wastewater treatment: recent advancements in membranes and processes. Frontiers of Chemical Science and Engineering, 2022, 16, 634-660.	2.3	9
38	Enhanced organic solvent nanofiltration of aligned Kevlar composite membrane by incorporated with amino-polystyrene nanospheres. Journal of Membrane Science, 2022, 647, 120290.	4.1	7
39	Vanadium recovery by electrodialysis using polymer inclusion membranes. Journal of Hazardous Materials, 2022, 436, 129315.	6.5	7
40	The Theory and Practice Value of Tunable Nanoscale Interlayer of Graphene: Response to Comment on â€œTunable Nanoscale Interlayer of Graphene with Symmetrical Polyelectrolyte Multilayer Architecture for Lithium Extractionâ€• Advanced Materials Interfaces, 2019, 6, 1801924.	1.9	4
41	Alternating electric field-based ionic control and layer-by-layer assembly of anion exchange membranes for enhancing target anion selectivity. Desalination, 2022, 533, 115773.	4.0	4
42	Graphene Oxide: Tunable Nanoscale Interlayer of Graphene with Symmetrical Polyelectrolyte Multilayer Architecture for Lithium Extraction (Adv. Mater. Interfaces 6/2018). Advanced Materials Interfaces, 2018, 5, 1870025.	1.9	3
43	Prospects of nanocomposite membranes for water treatment by electrodriven membrane processes. , 2020, , 321-354.		1
44	Review of Thermal- and Membrane-based Water Desalination Technologies and Integration with Alternative Energy Sources. Materials and Energy, 2021, , 1-40.	2.5	0