

Zhizhang Yuan

List of Publications by Year in descending order

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44
papers

3,273
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186265

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all docs

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docs citations

45
times ranked

2139
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Electrolytes for pH-Neutral Aqueous Organic Redox Flow Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2108777.	14.9	43
2	Porous polybenzimidazole membranes with positive charges enable an excellent anti-fouling ability for vanadium-methylene blue flow battery. <i>Journal of Energy Chemistry</i> , 2022, 68, 247-254.	12.9	7
3	Recent development and prospect of membranes for alkaline zinc-iron flow battery. , 2022, 2, 100029.		8
4	Low-cost hydrocarbon membrane enables commercial-scale flow batteries for long-duration energy storage. <i>Joule</i> , 2022, 6, 884-905.	24.0	53
5	Low-cost all-iron flow battery with high performance towards long-duration energy storage. <i>Journal of Energy Chemistry</i> , 2022, 73, 445-451.	12.9	17
6	A highly stable membrane with hierarchical structure for wide pH range flow batteries. <i>Journal of Energy Chemistry</i> , 2021, 56, 80-86.	12.9	22
7	A non-ionic membrane with high performance for alkaline zinc-iron flow battery. <i>Journal of Membrane Science</i> , 2021, 618, 118585.	8.2	22
8	A data-driven and DFT assisted theoretic guide for membrane design in flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14545-14552.	10.3	9
9	In Situ Defect-Free Vertically Aligned Layered Double Hydroxide Composite Membrane for High Areal Capacity and Long-Cycle Zinc-Based Flow Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2102167.	14.9	36
10	Layered double hydroxide membrane with high hydroxide conductivity and ion selectivity for energy storage device. <i>Nature Communications</i> , 2021, 12, 3409.	12.8	94
11	Dendrite-Free Zinc-Based Battery with High Areal Capacity via the Region-Induced Deposition Effect of Turing Membrane. <i>Journal of the American Chemical Society</i> , 2021, 143, 13135-13144.	13.7	73
12	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	9.1	306
13	Rechargeable aqueous zinc-bromine batteries: an overview and future perspectives. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26070-26084.	2.8	32
14	Porous Membrane with High Selectivity for Alkaline Quinone-Based Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48533-48541.	8.0	18
15	Effect of Electrolyte Additives on the Water Transfer Behavior for Alkaline Zinc-Iron Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51573-51580.	8.0	13
16	A Boron Nitride Nanosheets Composite Membrane for a Long-Life Zinc-Based Flow Battery. <i>Angewandte Chemie</i> , 2020, 132, 6781-6785.	2.0	4
17	A Boron Nitride Nanosheets Composite Membrane for a Long-Life Zinc-Based Flow Battery. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6715-6719.	13.8	67
18	Mixed Matrix Membranes: A Cost-Effective Mixed Matrix Polyethylene Porous Membrane for Long-Cycle High Power Density Alkaline Zinc-Based Flow Batteries (<i>Adv. Funct. Mater.</i> 29/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970201.	14.9	1

#	ARTICLE	IF	CITATIONS
19	Advanced Materials for Zinc-Based Flow Battery: Development and Challenge. <i>Advanced Materials</i> , 2019, 31, e1902025.	21.0	160
20	A Cost-Effective Mixed Matrix Polyethylene Porous Membrane for Long-Cycle High Power Density Alkaline Zinc-Based Flow Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1901674.	14.9	20
21	Zinc-Based Flow Batteries: Advanced Materials for Zinc-Based Flow Battery: Development and Challenge (Adv. Mater. 50/2019). <i>Advanced Materials</i> , 2019, 31, 1970356.	21.0	2
22	Toward a Low-Cost Alkaline Zinc-Iron Flow Battery with a Polybenzimidazole Custom Membrane for Stationary Energy Storage. <i>IScience</i> , 2018, 3, 40-49.	4.1	119
23	Advanced porous PBI membranes with tunable performance induced by the polymer-solvent interaction for flow battery application. <i>Energy Storage Materials</i> , 2018, 10, 40-47.	18.0	80
24	Negatively charged nanoporous membrane for a dendrite-free alkaline zinc-based flow battery with long cycle life. <i>Nature Communications</i> , 2018, 9, 3731.	12.8	133
25	Mechanism and transfer behavior of ions in Nafion membranes under alkaline media. <i>Journal of Membrane Science</i> , 2018, 566, 8-14.	8.2	35
26	Ion conducting membranes for aqueous flow battery systems. <i>Chemical Communications</i> , 2018, 54, 7570-7588.	4.1	79
27	Advanced charged porous membranes with flexible internal crosslinking structures for vanadium flow batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6193-6199.	10.3	34
28	Porous membranes in secondary battery technologies. <i>Chemical Society Reviews</i> , 2017, 46, 2199-2236.	38.1	357
29	Solvent-Induced Rearrangement of Ion-Transport Channels: A Way to Create Advanced Porous Membranes for Vanadium Flow Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1604587.	14.9	66
30	Highly stable aromatic poly(ether sulfone) composite ion exchange membrane for vanadium flow battery. <i>Journal of Membrane Science</i> , 2017, 541, 465-473.	8.2	50
31	A Venus-flytrap-inspired pH-responsive porous membrane with internal crosslinking networks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25555-25561.	10.3	32
32	Advanced Charged Sponge-Like Membrane with Ultrahigh Stability and Selectivity for Vanadium Flow Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 210-218.	14.9	139
33	Polypyrrole modified porous poly(ether sulfone) membranes with high performance for vanadium flow batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12955-12962.	10.3	46
34	A Highly Ion-Selective Zeolite Flake Layer on Porous Membranes for Flow Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3058-3062.	13.8	148
35	High-performance porous uncharged membranes for vanadium flow battery applications created by tuning cohesive and swelling forces. <i>Energy and Environmental Science</i> , 2016, 9, 2319-2325.	30.8	108
36	A Highly Ion-Selective Zeolite Flake Layer on Porous Membranes for Flow Battery Applications. <i>Angewandte Chemie</i> , 2016, 128, 3110-3114.	2.0	25

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37	Advanced porous membranes with ultra-high selectivity and stability for vanadium flow batteries. <i>Energy and Environmental Science</i> , 2016, 9, 441-447.	30.8	265
38	Porous membrane with high curvature, three-dimensional heat-resistance skeleton: a new and practical separator candidate for high safety lithium ion battery. <i>Scientific Reports</i> , 2015, 5, 8255.	3.3	80
39	Highly stable membranes based on sulfonated fluorinated poly(ether ether ketone)s with bifunctional groups for vanadium flow battery application. <i>Polymer Chemistry</i> , 2015, 6, 5385-5392.	3.9	27
40	Composite membrane with ultra-thin ion exchangeable functional layer: a new separator choice for manganese-based cathode material in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7006-7013.	10.3	12
41	Highly Stable Anion Exchange Membranes with Internal Cross-Linking Networks. <i>Advanced Functional Materials</i> , 2015, 25, 2583-2589.	14.9	114
42	Mechanism of Polysulfone-Based Anion Exchange Membranes Degradation in Vanadium Flow Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19446-19454.	8.0	123
43	Morphology and performance of poly(ether sulfone)/sulfonated poly(ether ether ketone) blend porous membranes for vanadium flow battery application. <i>RSC Advances</i> , 2014, 4, 40400-40406.	3.6	33
44	Degradation mechanism of sulfonated poly(ether ether ketone) (SPEEK) ion exchange membranes under vanadium flow battery medium. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19841-19847.	2.8	161