## Xianfeng Li

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ion exchange membranes for vanadium redox flow battery (VRB) applications. Energy and Environmental Science, 2011, 4, 1147.	30.8	856
2	Vanadium Flow Battery for Energy Storage: Prospects and Challenges. Journal of Physical Chemistry Letters, 2013, 4, 1281-1294.	4.6	443
3	An aqueous hybrid electrolyte for low-temperature zinc-based energy storage devices. Energy and Environmental Science, 2020, 13, 3527-3535.	30.8	442
4	Porous membranes in secondary battery technologies. Chemical Society Reviews, 2017, 46, 2199-2236.	38.1	357
5	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
6	Promoting the Transformation of Li <sub>2</sub> S <sub>2</sub> to Li <sub>2</sub> S: Significantly Increasing Utilization of Active Materials for Highâ€Sulfurâ€Loading Li–S Batteries. Advanced Materials, 2019, 31, e1901220.	21.0	303
7	Nanofiltration (NF) membranes: the next generation separators for all vanadium redox flow batteries (VRBs)?. Energy and Environmental Science, 2011, 4, 1676.	30.8	292
8	Inhibition of Zinc Dendrite Growth in Zincâ€Based Batteries. ChemSusChem, 2018, 11, 3996-4006.	6.8	291
9	Advanced porous membranes with ultra-high selectivity and stability for vanadium flow batteries. Energy and Environmental Science, 2016, 9, 441-447.	30.8	265
10	Dendriteâ€Free Zinc Deposition Induced by Tinâ€Modified Multifunctional 3D Host for Stable Zincâ€Based Flow Battery. Advanced Materials, 2020, 32, e1906803.	21.0	263
11	Highly Flexible and Conductive Cellulose-Mediated PEDOT:PSS/MWCNT Composite Films for Supercapacitor Electrodes. ACS Applied Materials & amp; Interfaces, 2017, 9, 13213-13222.	8.0	214
12	Carbon paper coated with supported tungsten trioxide as novel electrode for all-vanadium flow battery. Journal of Power Sources, 2012, 218, 455-461.	7.8	207
13	Composite membranes based on highly sulfonated PEEK and PBI: Morphology characteristics and performance. Journal of Membrane Science, 2008, 308, 66-74.	8.2	189
14	A novel single flow zinc–bromine battery with improved energy density. Journal of Power Sources, 2013, 235, 1-4.	7.8	181
15	Highly stable zinc–iodine single flow batteries with super high energy density for stationary energy storage. Energy and Environmental Science, 2019, 12, 1834-1839.	30.8	181
16	Sulfonated poly(tetramethydiphenyl ether ether ketone) membranes for vanadium redox flow battery application. Journal of Power Sources, 2011, 196, 482-487.	7.8	180
17	A highly reversible neutral zinc/manganese battery for stationary energy storage. Energy and Environmental Science, 2020, 13, 135-143.	30.8	180
18	Silica modified nanofiltration membranes with improved selectivity for redox flow battery application. Energy and Environmental Science, 2012, 5, 6299-6303.	30.8	171

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19	3D Flexible, Conductive, and Recyclable Ti <sub>3</sub> C <sub>2</sub> T <sub><i>x</i></sub> MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. ACS Nano, 2020, 14, 8678-8688.	14.6	164
20	Degradation mechanism of sulfonated poly(ether ether ketone) (SPEEK) ion exchange membranes under vanadium flow battery medium. Physical Chemistry Chemical Physics, 2014, 16, 19841-19847.	2.8	161
21	Bismuth nanodendrites as a high performance electrocatalyst for selective conversion of CO <sub>2</sub> to formate. Journal of Materials Chemistry A, 2016, 4, 13746-13753.	10.3	160
22	Advanced Materials for Zincâ€Based Flow Battery: Development and Challenge. Advanced Materials, 2019, 31, e1902025.	21.0	160
23	Anode for Zinc-Based Batteries: Challenges, Strategies, and Prospects. ACS Energy Letters, 2021, 6, 2765-2785.	17.4	159
24	The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.	2.8	158
25	A Long Cycle Life, Selfâ€Healing Zinc–lodine Flow Battery with High Power Density. Angewandte Chemie - International Edition, 2018, 57, 11171-11176.	13.8	150
26	A Highly Ionâ€ <b>S</b> elective Zeolite Flake Layer on Porous Membranes for Flow Battery Applications. Angewandte Chemie - International Edition, 2016, 55, 3058-3062.	13.8	148
27	Advanced Charged Sponge‣ike Membrane with Ultrahigh Stability and Selectivity for Vanadium Flow Batteries. Advanced Functional Materials, 2016, 26, 210-218.	14.9	139
28	Progress and Perspectives of Flow Battery Technologies. Electrochemical Energy Reviews, 2019, 2, 492-506.	25.5	138
29	Intercalated polyaniline in V2O5 as a unique vanadium oxide bronze cathode for highly stable aqueous zinc ion battery. Energy Storage Materials, 2021, 38, 590-598.	18.0	135
30	Negatively charged nanoporous membrane for a dendrite-free alkaline zinc-based flow battery with long cycle life. Nature Communications, 2018, 9, 3731.	12.8	133
31	Phase Inversion: A Universal Method to Create Highâ€Performance Porous Electrodes for Nanoparticleâ€Based Energy Storage Devices. Advanced Functional Materials, 2016, 26, 8427-8434.	14.9	132
32	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. Nature Communications, 2020, 11, 13.	12.8	127
33	Advanced charged membranes with highly symmetric spongy structures for vanadium flow battery application. Energy and Environmental Science, 2013, 6, 776.	30.8	123
34	Mechanism of Polysulfone-Based Anion Exchange Membranes Degradation in Vanadium Flow Battery. ACS Applied Materials & Interfaces, 2015, 7, 19446-19454.	8.0	123
35	Activated Carbon Fiber Paper Based Electrodes with High Electrocatalytic Activity for Vanadium Flow Batteries with Improved Power Density. ACS Applied Materials & Interfaces, 2017, 9, 4626-4633.	8.0	122
36	The next generation vanadium flow batteries with high power density – a perspective. Physical Chemistry Chemical Physics, 2018, 20, 23-35.	2.8	121

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37	Toward a Low-Cost Alkaline Zinc-Iron Flow Battery with a Polybenzimidazole Custom Membrane for Stationary Energy Storage. IScience, 2018, 3, 40-49.	4.1	119
38	Porous V <sub>2</sub> O <sub>5</sub> yolk–shell microspheres for zinc ion battery cathodes: activation responsible for enhanced capacity and rate performance. Journal of Materials Chemistry A, 2020, 8, 5186-5193.	10.3	119
39	Ultrathin Bismuth Nanosheets as a Highly Efficient CO <sub>2</sub> Reduction Electrocatalyst. ChemSusChem, 2018, 11, 848-853.	6.8	116
40	A Low ost Neutral Zinc–Iron Flow Battery with High Energy Density for Stationary Energy Storage. Angewandte Chemie - International Edition, 2017, 56, 14953-14957.	13.8	115
41	Highly Stable Anion Exchange Membranes with Internal Crossâ€Linking Networks. Advanced Functional Materials, 2015, 25, 2583-2589.	14.9	114
42	VSC-doping and VSU-doping of Na3V2-xTix(PO4)2F3 compounds for sodium ion battery cathodes: Analysis of electrochemical performance and kinetic properties. Nano Energy, 2018, 47, 340-352.	16.0	113
43	Y-Doped Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> compounds for sodium ion battery cathodes: electrochemical performance and analysis of kinetic properties. Journal of Materials Chemistry A, 2017, 5, 10928-10935.	10.3	109
44	High-performance porous uncharged membranes for vanadium flow battery applications created by tuning cohesive and swelling forces. Energy and Environmental Science, 2016, 9, 2319-2325.	30.8	108
45	Morphology changes of polyvinylidene fluoride membrane under different phase separation mechanisms. Journal of Membrane Science, 2008, 320, 477-482.	8.2	106
46	Progress and prospect for NASICON-type Na3V2(PO4)3 for electrochemical energy storage. Journal of Energy Chemistry, 2018, 27, 1597-1617.	12.9	104
47	Sulfur embedded in one-dimensional French fries-like hierarchical porous carbon derived from a metal–organic framework for high performance lithium–sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 15314-15323.	10.3	101
48	Development and perspective in vanadium flow battery modeling. Applied Energy, 2014, 132, 254-266.	10.1	99
49	Multilayered Zn nanosheets as an electrocatalyst for efficient electrochemical reduction of CO2. Journal of Catalysis, 2018, 357, 154-162.	6.2	96
50	Layered double hydroxide membrane with high hydroxide conductivity and ion selectivity for energy storage device. Nature Communications, 2021, 12, 3409.	12.8	94
51	Selective Electrochemical Reduction of Carbon Dioxide Using Cu Based Metal Organic Framework for CO <sub>2</sub> Capture. ACS Applied Materials & Interfaces, 2018, 10, 2480-2489.	8.0	93
52	Investigation on the effect of catalyst on the electrochemical performance of carbon felt and graphite felt for vanadium flow batteries. Journal of Power Sources, 2015, 286, 73-81.	7.8	92
53	1-D oriented cross-linking hierarchical porous carbon fibers as a sulfur immobilizer for high performance lithium–sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 5965-5972.	10.3	92
54	Poly (ether etherÂketone) (PEEK) porous membranes with super high thermal stability and high rate capability for lithium-ion batteries. Journal of Membrane Science, 2017, 530, 125-131.	8.2	92

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55	Cageâ€Like Porous Carbon with Superhigh Activity and Br <sub>2</sub> â€Complexâ€Entrapping Capability for Bromineâ€Based Flow Batteries. Advanced Materials, 2017, 29, 1605815.	21.0	88
56	Hydrophobic asymmetric ultrafiltration PVDF membranes: an alternative separator for VFB with excellent stability. Physical Chemistry Chemical Physics, 2013, 15, 1766-1771.	2.8	87
57	A three-dimensional model for thermal analysis in a vanadium flow battery. Applied Energy, 2014, 113, 1675-1685.	10.1	86
58	Lithium Sulfur Primary Battery with Super High Energy Density: Based on the Cauliflower-like Structured C/S Cathode. Scientific Reports, 2015, 5, 14949.	3.3	86
59	Development of carbon coated membrane for zinc/bromine flow battery with high power density. Journal of Power Sources, 2013, 227, 41-47.	7.8	83
60	Superior Thermally Stable and Nonflammable Porous Polybenzimidazole Membrane with High Wettability for High-Power Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 8742-8750.	8.0	83
61	Zn electrode with a layer of nanoparticles for selective electroreduction of CO <sub>2</sub> to formate in aqueous solutions. Journal of Materials Chemistry A, 2016, 4, 16670-16676.	10.3	81
62	A high power density single flow zinc–nickel battery with three-dimensional porous negative electrode. Journal of Power Sources, 2013, 241, 196-202.	7.8	80
63	Poly(vinylidene fluoride) porous membranes precipitated in water/ethanol dual-coagulation bath: The relationship between morphology and performance in vanadium flow battery. Journal of Power Sources, 2014, 249, 84-91.	7.8	80
64	Porous membrane with high curvature, three-dimensional heat-resistance skeleton: a new and practical separator candidate for high safety lithium ion battery. Scientific Reports, 2015, 5, 8255.	3.3	80
65	Advanced porous PBI membranes with tunable performance induced by the polymer-solvent interaction for flow battery application. Energy Storage Materials, 2018, 10, 40-47.	18.0	80
66	Anionâ€Conductive Membranes with Ultralow Vanadium Permeability and Excellent Performance in Vanadium Flow Batteries. ChemSusChem, 2013, 6, 328-335.	6.8	79
67	Bimodal highly ordered mesostructure carbon with high activity for Br2/Brâ^ redox couple in bromine based batteries. Nano Energy, 2016, 21, 217-227.	16.0	79
68	Ion conducting membranes for aqueous flow battery systems. Chemical Communications, 2018, 54, 7570-7588.	4.1	79
69	Aqueous Flow Batteries: Research and Development. Chemistry - A European Journal, 2019, 25, 1649-1664.	3.3	79
70	Vanadium-based polyanionic compounds as cathode materials for sodium-ion batteries: Toward high-power applications. Journal of Energy Chemistry, 2021, 55, 361-390.	12.9	79
71	SPEEK and functionalized mesoporous MCM-41 mixed matrix membranes for CO2 separations. Journal of Materials Chemistry, 2012, 22, 20057.	6.7	78
72	A highly stable neutral viologen/bromine aqueous flow battery with high energy and power density. Chemical Communications, 2019, 55, 4801-4804.	4.1	78

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73	Long Cycle Life Lithium Metal Batteries Enabled with Upright Lithium Anode. Advanced Functional Materials, 2019, 29, 1806752.	14.9	78
74	Ultrafast and Stable Liâ€(De)intercalation in a Large Single Crystal Hâ€Nb <sub>2</sub> O <sub>5</sub> Anode via Optimizing the Homogeneity of Electron and Ion Transport. Advanced Materials, 2020, 32, e2001001.	21.0	78
75	Scalable and Economic Synthesis of High-Performance Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> by a Solvothermal–Ball-Milling Method. ACS Energy Letters, 2019, 4, 1565-1571.	17.4	75
76	Advanced acid-base blend ion exchange membranes with high performance for vanadium flow battery application. Journal of Membrane Science, 2018, 553, 25-31.	8.2	74
77	The Challenge of Lithium Metal Anodes for Practical Applications. Small Methods, 2019, 3, 1800551.	8.6	74
78	Endogenous Symbiotic Li <sub>3</sub> N/Cellulose Skin to Extend the Cycle Life of Lithium Anode. Angewandte Chemie - International Edition, 2021, 60, 11718-11724.	13.8	74
79	Dendrite-Free Zinc-Based Battery with High Areal Capacity via the Region-Induced Deposition Effect of Turing Membrane. Journal of the American Chemical Society, 2021, 143, 13135-13144.	13.7	73
80	Porous poly (ether sulfone) membranes with tunable morphology: Fabrication and their application for vanadium flow battery. Journal of Power Sources, 2013, 233, 202-208.	7.8	71
81	Progress on the electrode materials towards vanadium flow batteries (VFBs) with improved power density. Journal of Energy Chemistry, 2018, 27, 1292-1303.	12.9	69
82	Flow field design and optimization based on the mass transport polarization regulation in a flow-through type vanadium flow battery. Journal of Power Sources, 2016, 324, 402-411.	7.8	68
83	A Long Cycle Life, Selfâ€Healing Zinc–lodine Flow Battery with High Power Density. Angewandte Chemie, 2018, 130, 11341-11346.	2.0	67
84	All-NASICON LVP-LTP aqueous lithium ion battery with excellent stability and low-temperature performance. Electrochimica Acta, 2018, 278, 279-289.	5.2	67
85	A Boron Nitride Nanosheets Composite Membrane for a Longâ€Life Zincâ€Based Flow Battery. Angewandte Chemie - International Edition, 2020, 59, 6715-6719.	13.8	67
86	Solventâ€Induced Rearrangement of Ionâ€Transport Channels: A Way to Create Advanced Porous Membranes for Vanadium Flow Batteries. Advanced Functional Materials, 2017, 27, 1604587.	14.9	66
87	A low cost shutdown sandwich-like composite membrane with superior thermo-stability for lithium-ion battery. Journal of Membrane Science, 2017, 542, 1-7.	8.2	66
88	Li <sub>8</sub> NaRb <sub>3</sub> (SO <sub>4</sub> ) <sub>6</sub> ·2H <sub>2</sub> O as a new sulfate deep-ultraviolet nonlinear optical material. Journal of Materials Chemistry C, 2018, 6, 12240-12244.	5.5	66
89	A Coralâ€Like FeP@NC Anode with Increasing Cycle Capacity for Sodiumâ€Ion and Lithiumâ€Ion Batteries Induced by Particle Refinement. Angewandte Chemie - International Edition, 2021, 60, 25013-25019.	13.8	66
90	Naphthaleneâ€based poly(arylene ether ketone) copolymers containing sulfobutyl pendant groups for proton exchange membranes. Journal of Polymer Science Part A, 2009, 47, 5772-5783.	2.3	64

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91	Phenyleneâ€Bridged Bispyridinium with High Capacity and Stability for Aqueous Flow Batteries. Advanced Materials, 2021, 33, e2005839.	21.0	63
92	Steam-Etched Spherical Carbon/Sulfur Composite with High Sulfur Capacity and Long Cycle Life for Li/S Battery Application. ACS Applied Materials & Interfaces, 2015, 7, 3590-3599.	8.0	62
93	Carbon-Free CoO Mesoporous Nanowire Array Cathode for High-Performance Aprotic Li–O <sub>2</sub> Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23182-23189.	8.0	62
94	Trithiocyanuric acid derived g–C3N4 for anchoring the polysulfide in Li–S batteries application. Journal of Energy Chemistry, 2020, 43, 71-77.	12.9	61
95	Polysulfide Stabilization: A Pivotal Strategy to Achieve High Energy Density Li–S Batteries with Long Cycle Life. Advanced Functional Materials, 2018, 28, 1704987.	14.9	60
96	Improving the electrochemical performance of Na 3 V 2 (PO 4 ) 3 cathode in sodium ion batteries through Ce/V substitution based on rational design and synthesis optimization. Electrochimica Acta, 2017, 238, 288-297.	5.2	59
97	Cost, performance prediction and optimization of a vanadium flow battery by machine-learning. Energy and Environmental Science, 2020, 13, 4353-4361.	30.8	59
98	A highly reversible zinc deposition for flow batteries regulated by critical concentration induced nucleation. Energy and Environmental Science, 2021, 14, 4077-4084.	30.8	58
99	A novel solvent-template method to manufacture nano-scale porous membranes for vanadium flow battery applications. Journal of Materials Chemistry A, 2014, 2, 9524.	10.3	57
100	Rational design of a nested pore structure sulfur host for fast Li/S batteries with a long cycle life. Journal of Materials Chemistry A, 2016, 4, 1653-1662.	10.3	57
101	Polybenzimidazole membrane with dual proton transport channels for vanadium flow battery applications. Journal of Membrane Science, 2019, 586, 202-210.	8.2	56
102	Composite porous membranes with an ultrathin selective layer for vanadium flow batteries. Chemical Communications, 2014, 50, 4596-4599.	4.1	55
103	The transfer behavior of different ions across anion and cation exchange membranes under vanadium flow battery medium. Journal of Power Sources, 2014, 271, 1-7.	7.8	55
104	Free-Standing Thin Webs of Activated Carbon Nanofibers by Electrospinning for Rechargeable Li–O <sub>2</sub> Batteries. ACS Applied Materials & Interfaces, 2016, 8, 1937-1942.	8.0	54
105	Towards enhanced sodium storage by investigation of the Li ion doping and rearrangement mechanism in Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 4209-4218.	10.3	54
106	Membranes with Wellâ€Defined Selective Layer Regulated by Controlled Solvent Diffusion for High Power Density Flow Battery. Advanced Energy Materials, 2020, 10, 2001382.	19.5	54
107	Rational design and synthesis of LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3â^'x</sub> F <sub>x</sub> anode materials for high-performance aqueous lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 593-599.	10.3	53
108	Low-cost hydrocarbon membrane enables commercial-scale flow batteries for long-duration energy storage. Joule, 2022, 6, 884-905.	24.0	53

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109	Crosslinkable sulfonated poly (diallyl-bisphenol ether ether ketone) membranes for vanadium redox flow battery application. Journal of Power Sources, 2012, 217, 309-315.	7.8	52
110	Porous polyetherimide membranes with tunable morphology for lithium-ion battery. Journal of Membrane Science, 2018, 565, 42-49.	8.2	52
111	Porous membrane with improved dendrite resistance for high-performance lithium metal-based battery. Journal of Membrane Science, 2020, 605, 118108.	8.2	52
112	Investigation on the performance evaluation method of flow batteries. Journal of Power Sources, 2014, 266, 145-149.	7.8	51
113	Magnesium/Lithium-Ion Hybrid Battery with High Reversibility by Employing NaV <sub>3</sub> O <sub>8</sub> ·1.69H <sub>2</sub> O Nanobelts as a Positive Electrode. ACS Applied Materials & Interfaces, 2018, 10, 21313-21320.	8.0	51
114	Highly stable aromatic poly (ether sulfone) composite ion exchange membrane for vanadium flow battery. Journal of Membrane Science, 2017, 541, 465-473.	8.2	50
115	Hydrophilic porous poly(sulfone) membranes modified by UV-initiated polymerization for vanadium flow battery application. Journal of Membrane Science, 2014, 454, 478-487.	8.2	49
116	Shapeable electrodes with extensive materials options and ultra-high loadings for energy storage devices. Nano Energy, 2017, 39, 418-428.	16.0	49
117	Electrode Design for High-Performance Sodium-Ion Batteries: Coupling Nanorod-Assembled Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C Microspheres with a 3D Conductive Charge Transport Network. ACS Applied Materials & Interfaces, 2020, 12, 13869-13877.	8.0	49
118	Holey three-dimensional wood-based electrode for vanadium flow batteries. Energy Storage Materials, 2020, 27, 327-332.	18.0	49
119	Layer-by-Layer Assembled C/S Cathode with Trace Binder for Li–S Battery Application. ACS Applied Materials & Interfaces, 2015, 7, 25002-25006.	8.0	48
120	A highly efficient electrocatalyst for oxygen reduction reaction: phosphorus and nitrogen co-doped hierarchically ordered porous carbon derived from an iron-functionalized polymer. Nanoscale, 2016, 8, 1580-1587.	5.6	48
121	The catalytic effect of bismuth for VO 2 + /VO 2+ and V 3+ /V 2+ redox couples in vanadium flow batteries. Journal of Energy Chemistry, 2017, 26, 1-7.	12.9	48
122	A beryllium-free deep-UV nonlinear optical material CsNaMgP <sub>2</sub> O <sub>7</sub> with honeycomb-like topological layers. Journal of Materials Chemistry C, 2018, 6, 3910-3916.	5.5	48
123	Low-Cost Room-Temperature Synthesis of NaV <sub>3</sub> O <sub>8</sub> ·1.69H <sub>2</sub> O Nanobelts for Mg Batteries. ACS Applied Materials & Interfaces, 2018, 10, 4757-4766.	8.0	48
124	Advanced porous membranes with slit-like selective layer for flow battery. Nano Energy, 2018, 54, 73-81.	16.0	48
125	A Bi-doped Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cathode material with an enhanced high-rate capacity and long cycle stability for lithium ion batteries. Dalton Transactions, 2015, 44, 17579-17586.	3.3	46
126	Polypyrrole modified porous poly(ether sulfone) membranes with high performance for vanadium flow batteries. Journal of Materials Chemistry A, 2016, 4, 12955-12962.	10.3	46

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127	A TiN Nanorod Array 3D Hierarchical Composite Electrode for Ultrahighâ€Powerâ€Density Bromineâ€Based Flow Batteries. Advanced Materials, 2019, 31, e1904690.	21.0	46
128	N-Doped Nanoporous Carbon from Biomass as a Highly Efficient Electrocatalyst for the CO <sub>2</sub> Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 5249-5255.	6.7	46
129	Morphology and Electrochemical Properties of Perfluorosulfonic Acid Ionomers for Vanadium Flow Battery Applications: Effect of Sideâ€Chain Length. ChemSusChem, 2013, 6, 1262-1269.	6.8	45
130	Effects of phosphate additives on the stability of positive electrolytes for vanadium flow batteries. Electrochimica Acta, 2015, 164, 307-314.	5.2	45
131	Relationship between activity and structure of carbon materials for Br <sub>2</sub> /Br <sup>â^'</sup> in zinc bromine flow batteries. RSC Advances, 2016, 6, 40169-40174.	3.6	44
132	Solvent resistant nanofiltration membranes based on crosslinked polybenzimidazole. RSC Advances, 2016, 6, 16925-16932.	3.6	44
133	From zeolite-type metal organic framework to porous nano-sheet carbon: High activity positive electrode material for bromine-based flow batteries. Nano Energy, 2018, 44, 240-247.	16.0	44
134	Bi-Modified Zn Catalyst for Efficient CO <sub>2</sub> Electrochemical Reduction to Formate. ACS Sustainable Chemistry and Engineering, 2019, 7, 15190-15196.	6.7	44
135	Highly selective charged porous membranes with improved ion conductivity. Nano Energy, 2018, 48, 353-360.	16.0	43
136	Organic Electrolytes for pHâ€Neutral Aqueous Organic Redox Flow Batteries. Advanced Functional Materials, 2022, 32, 2108777.	14.9	43
137	Zinc-nickel single flow batteries with improved cycling stability by eliminating zinc accumulation on the negative electrode. Electrochimica Acta, 2014, 145, 109-115.	5.2	42
138	Advanced Porous Membranes with Tunable Morphology Regulated by Ionic Strength of Nonsolvent for Flow Battery. ACS Applied Materials & amp; Interfaces, 2019, 11, 24107-24113.	8.0	42
139	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. Energy Storage Materials, 2021, 36, 417-426.	18.0	42
140	Multifunctional Carbon Felt Electrode with Nâ€Rich Defects Enables a Longâ€Cycle Zincâ€Bromine Flow Battery with Ultrahigh Power Density. Advanced Functional Materials, 2021, 31, 2102913.	14.9	42
141	Investigation of sulfonated poly(ether ether ketone sulfone)/heteropolyacid composite membranes for high temperature fuel cell applications. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1967-1978.	2.1	41
142	Flow field design and optimization of high power density vanadium flow batteries: A novel trapezoid flow battery. AICHE Journal, 2018, 64, 782-795.	3.6	41
143	Design and synthesis of a free-standing carbon nano-fibrous web electrode with ultra large pores for high-performance vanadium flow batteries. RSC Advances, 2017, 7, 45932-45937.	3.6	40
144	Fast kinetics of Mg <sup>2+</sup> /Li <sup>+</sup> hybrid ions in a polyanion Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode in a wide temperature range. Journal of Materials Chemistry A, 2019, 7, 9968-9976.	10.3	40

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145	Superior Na-storage performance of molten-state-blending-synthesized monoclinic NaVPO <sub>4</sub> F nanoplates for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 24201-24209.	10.3	39
146	Opportunities and challenges of organic flow battery for electrochemical energy storage technology. Journal of Energy Chemistry, 2022, 67, 621-639.	12.9	39
147	Performance gains in single flow zinc–nickel batteries through novel cell configuration. Electrochimica Acta, 2013, 105, 618-621.	5.2	38
148	Solvent responsive silica composite nanofiltration membrane with controlled pores and improved ion selectivity for vanadium flow battery application. Journal of Power Sources, 2015, 274, 1126-1134.	7.8	38
149	Synthesis and electrochemical properties of Li <sub>3</sub> V <sub>2</sub> (P <sub>1â^x</sub> B <sub>x</sub> O <sub>4</sub> ) <sub>3</sub> /C cathode materials. Journal of Materials Chemistry A, 2015, 3, 19469-19475.	10.3	37
150	Ion/Molecule-selective transport nanochannels of membranes for redox flow batteries. Energy Storage Materials, 2021, 34, 648-668.	18.0	37
151	Act in contravention: a non-planar coupled electrode design utilizing "tip effect―for ultra-high areal capacity, long cycle life zinc-based batteries. Science Bulletin, 2021, 66, 889-896.	9.0	37
152	Sulfonated poly(ether ether sulfone) copolymers for proton exchange membrane fuel cells. Journal of Applied Polymer Science, 2007, 104, 1443-1450.	2.6	36
153	In Situ Defectâ€Free Vertically Aligned Layered Double Hydroxide Composite Membrane for High Areal Capacity and Long ycle Zincâ€Based Flow Battery. Advanced Functional Materials, 2021, 31, 2102167.	14.9	36
154	High-performance PBI membranes for flow batteries: from the transport mechanism to the pilot plant. Energy and Environmental Science, 2022, 15, 1594-1600.	30.8	36
155	Mechanism and transfer behavior of ions in Nafion membranes under alkaline media. Journal of Membrane Science, 2018, 566, 8-14.	8.2	35
156	A defect-free MOF composite membrane prepared via in-situ binder-controlled restrained second-growth method for energy storage device. Energy Storage Materials, 2021, 35, 687-694.	18.0	35
157	Synthesis and characterization of a series of SPEEK/TiO <sub>2</sub> hybrid membranes for direct methanol fuel cell. Journal of Applied Polymer Science, 2008, 109, 1057-1062.	2.6	34
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