

Xianfeng Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

272
papers

11,554
citations

60
h-index

93
g-index

284
ext. papers

14,496
ext. citations

12
avg. IF

7.02
L-index

#	Paper	IF	Citations
272	A highly stable membrane for vanadium flow batteries (VFBs) enabled by the selective degradation of ionic side chains. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 762-771	13	0
271	Recent development and prospect of membranes for alkaline zinc-iron flow battery 2022 , 2, 100029		1
270	Opportunities and challenges of organic flow battery for electrochemical energy storage technology. <i>Journal of Energy Chemistry</i> , 2022 , 67, 621-639	12	3
269	A low-cost bromine-fixed additive enables a high capacity retention zinc-bromine batteries. <i>Journal of Energy Chemistry</i> , 2022 , 65, 89-93	12	3
268	Progress and Perspective of the Cathode Materials towards Bromine-Based Flow Batteries. <i>Energy Material Advances</i> , 2022 , 2022, 1-22	1	0
267	A High Energy Density Bromine-Based Flow Battery with Two-Electron Transfer. <i>ACS Energy Letters</i> , 2022 , 7, 1034-1039	20.1	0
266	Low-cost hydrocarbon membrane enables commercial-scale flow batteries for long-duration energy storage. <i>Joule</i> , 2022 ,	27.8	4
265	Advanced porous composite membrane with ability to regulate zinc deposition enables dendrite-free and high-areal capacity zinc-based flow battery. <i>Energy Storage Materials</i> , 2022 , 47, 415-423	19.4	0
264	High-energy-density aqueous zinc-based hybrid supercapacitor-battery with uniform zinc deposition achieved by multifunctional decoupled additive. <i>Nano Energy</i> , 2022 , 96, 107120	17.1	1
263	Morphology Selection Kinetics of Li Sphere via Interface Regulation at High Current Density for Pragmatic Li Metal Batteries. <i>Advanced Energy Materials</i> , 2022 , 12, 2103503	21.8	3
262	Optical Property of Inorganic Halide Perovskite Hexagonal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25044-25054	3.8	1
261	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021 , 2, 100180	17.8	37
260	Rechargeable aqueous zinc-bromine batteries: an overview and future perspectives. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26070-26084	3.6	2
259	Operando surface science methodology reveals surface effect in charge storage electrodes. <i>National Science Review</i> , 2021 , 8, nwaa289	10.8	6
258	Electrochemical Production of Formic Acid from CO with Cetyltrimethylammonium Bromide-Assisted Copper-Based Catalysts. <i>ChemSusChem</i> , 2021 , 14, 1962-1969	8.3	0
257	Controllable Design Coupled with Finite Element Analysis of Low-Tortuosity Electrode Architecture for Advanced Sodium-Ion Batteries with Ultra-High Mass Loading. <i>Advanced Energy Materials</i> , 2021 , 11, 2003725	21.8	14
256	A Complexing Agent to Enable a Wide-Temperature Range Bromine-Based Flow Battery for Stationary Energy Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2100133	15.6	7

255	Macro-scale Turing-shape membranes for energy storage. <i>Cell Reports Physical Science</i> , 2021 , 2, 100361	6.1	1
254	The Mystery from Tetragonal NaVPO ₄ F to Monoclinic NaVPO ₄ F: Crystal Presentation, Phase Conversion, and Na-Storage Kinetics. <i>Advanced Energy Materials</i> , 2021 , 11, 2100627	21.8	2
253	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. <i>Energy Storage Materials</i> , 2021 , 36, 417-426	19.4	7
252	Endogenous Symbiotic Li N/Cellulose Skin to Extend the Cycle Life of Lithium Anode. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11718-11724	16.4	25
251	Highly Active Ag Nanoparticle Electrocatalysts toward V ²⁺ /V ³⁺ Redox Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3913-3920	6.1	4
250	Endogenous Symbiotic Li ₃ N/Cellulose Skin to Extend the Cycle Life of Lithium Anode. <i>Angewandte Chemie</i> , 2021 , 133, 11824-11830	3.6	
249	Constructing Phase-Transitional NiS@Nitrogen-Doped Carbon Cathode Material with High Rate Capability and Cycling Stability for Alkaline Zinc-Based Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19008-19015	9.5	1
248	Atomic-Dispersed Coordinated Unsaturated Nickel/Nitrogen Sites in Hollow Carbon Spheres for the Efficient Electrochemical CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5437-5444	8.2	4
247	Act in contravention: a non-planar coupled electrode design utilizing Tip effect for ultra-high areal capacity, long cycle life zinc-based batteries. <i>Science Bulletin</i> , 2021 , 66, 889-896	10.6	12
246	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	15.6	8
245	Multifunctional Carbon Felt Electrode with N-Rich Defects Enables a Long-Cycle Zinc-Bromine Flow Battery with Ultrahigh Power Density. <i>Advanced Functional Materials</i> , 2021 , 31, 2102913	15.6	11
244	Intercalated polyaniline in V ₂ O ₅ as a unique vanadium oxide bronze cathode for highly stable aqueous zinc ion battery. <i>Energy Storage Materials</i> , 2021 , 38, 590-598	19.4	33
243	Enabling superior rate capability and reliable sodium ion batteries by employing galvanostatic-potentiostatic operation mode. <i>Journal of Power Sources</i> , 2021 , 496, 229834	8.9	0
242	Layered double hydroxide membrane with high hydroxide conductivity and ion selectivity for energy storage device. <i>Nature Communications</i> , 2021 , 12, 3409	17.4	19
241	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	16.4	15
240	Controlled synthesis of pure-phase metastable tetragonal Nb ₂ O ₅ anode material for high-performance lithium batteries. <i>Journal of Solid State Chemistry</i> , 2021 , 299, 122136	3.3	2
239	A highly stable membrane with hierarchical structure for wide pH range flow batteries. <i>Journal of Energy Chemistry</i> , 2021 , 56, 80-86	12	11
238	Vanadium-based polyanionic compounds as cathode materials for sodium-ion batteries: Toward high-energy and high-power applications. <i>Journal of Energy Chemistry</i> , 2021 , 55, 361-390	12	28

237	A high potential biphenol derivative cathode: toward a highly stable air-insensitive aqueous organic flow battery. <i>Science Bulletin</i> , 2021 , 66, 457-463	10.6	8
236	A non-ionic membrane with high performance for alkaline zinc-iron flow battery. <i>Journal of Membrane Science</i> , 2021 , 618, 118585	9.6	11
235	Advanced poly(vinyl pyrrolidone) decorated chlorinated polyvinyl chloride membrane with low area resistance for vanadium flow battery. <i>Journal of Membrane Science</i> , 2021 , 620, 118947	9.6	5
234	A defect-free MOF composite membrane prepared via in-situ binder-controlled restrained second-growth method for energy storage device. <i>Energy Storage Materials</i> , 2021 , 35, 687-694	19.4	10
233	Organic Electrode Materials for Non-aqueous K-Ion Batteries. <i>Transactions of Tianjin University</i> , 2021 , 27, 1-23	2.9	7
232	N-doped hierarchical porous carbon derived from bismuth salts decorated ZIF8 as a highly efficient electrocatalyst for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 320-326	13	3
231	Ion/Molecule-selective transport nanochannels of membranes for redox flow batteries. <i>Energy Storage Materials</i> , 2021 , 34, 648-668	19.4	18
230	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	13	2
229	A highly reversible zinc deposition for flow batteries regulated by critical concentration induced nucleation. <i>Energy and Environmental Science</i> , 2021 , 14, 4077-4084	35.4	15
228	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 183001	3	63
227	Anode for Zinc-Based Batteries: Challenges, Strategies, and Prospects. <i>ACS Energy Letters</i> , 2021 , 6, 2765-2785	27.85	30
226	Ion conductive membranes for flow batteries: Design and ions transport mechanism. <i>Journal of Membrane Science</i> , 2021 , 632, 119355	9.6	6
225	A Coral-Like FeP@NC Anode with Increasing Cycle Capacity for Sodium-Ion and Lithium-Ion Batteries Induced by Particle Refinement. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25013-25019	16.4	16
224	The crucial role of parallel and interdigitated flow channels in a trapezoid flow battery. <i>Journal of Power Sources</i> , 2021 , 512, 230497	8.9	0
223	Perspective on organic flow batteries for large-scale energy storage. <i>Current Opinion in Electrochemistry</i> , 2021 , 30, 100836	7.2	1
222	Phenylene-Bridged Bispyridinium with High Capacity and Stability for Aqueous Flow Batteries. <i>Advanced Materials</i> , 2021 , 33, e2005839	24	19
221	Stop Four Gaps with One Bush: Versatile Hierarchical Polybenzimidazole Nanoporous Membrane for Highly Durable Li-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55809-55819	9.5	3
220	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	9.5	4

219	Recent Development in Composite Membranes for Flow Batteries. <i>ChemSusChem</i> , 2020 , 13, 3805	8.3	15
218	3D Flexible, Conductive, and Recyclable TiCT MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. <i>ACS Nano</i> , 2020 , 14, 8678-8688	16.7	92
217	Revisiting of Tetragonal NaVPOF: A High Energy Density Cathode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30510-30519	9.5	4
216	Electrode Design for High-Performance Sodium-Ion Batteries: Coupling Nanorod-Assembled NaV(PO) ₄ @C Microspheres with a 3D Conductive Charge Transport Network. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13869-13877	9.5	26
215	High Rate Performance Li ₄ Ti ₅ O ₁₂ /N-doped Carbon/Stainless Steel Mesh Flexible Electrodes Prepared by Electrostatic Spray Deposition for Lithium-ion Capacitors. <i>Chemistry Letters</i> , 2020 , 49, 337-340	17	2
214	A Boron Nitride Nanosheets Composite Membrane for a Long-Life Zinc-Based Flow Battery. <i>Angewandte Chemie</i> , 2020 , 132, 6781-6785	3.6	2
213	Holey three-dimensional wood-based electrode for vanadium flow batteries. <i>Energy Storage Materials</i> , 2020 , 27, 327-332	19.4	27
212	Porous V ₂ O ₅ yolk-shell microspheres for zinc ion battery cathodes: activation responsible for enhanced capacity and rate performance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5186-5193	13	59
211	A Boron Nitride Nanosheets Composite Membrane for a Long-Life Zinc-Based Flow Battery. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6715-6719	16.4	35
210	Porous membrane with improved dendrite resistance for high-performance lithium metal-based battery. <i>Journal of Membrane Science</i> , 2020 , 605, 118108	9.6	31
209	An aqueous hybrid electrolyte for low-temperature zinc-based energy storage devices. <i>Energy and Environmental Science</i> , 2020 , 13, 3527-3535	35.4	175
208	Advanced scalable zeolite β -sieveing composite membranes with high selectivity. <i>Journal of Membrane Science</i> , 2020 , 595, 117569	9.6	16
207	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. <i>Nature Communications</i> , 2020 , 11, 13	17.4	67
206	High-Performance Solar Redox Flow Battery toward Efficient Overall Splitting of Hydrogen Sulfide. <i>ACS Energy Letters</i> , 2020 , 5, 597-603	20.1	12
205	A highly reversible neutral zinc/manganese battery for stationary energy storage. <i>Energy and Environmental Science</i> , 2020 , 13, 135-143	35.4	83
204	Affinity Laminated Chromatography Membrane Built-in Electrodes for Suppressing Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903233	21.8	9
203	Dendrite-Free Zinc Deposition Induced by Tin-Modified Multifunctional 3D Host for Stable Zinc-Based Flow Battery. <i>Advanced Materials</i> , 2020 , 32, e1906803	24	135
202	A simple pre-sodiation strategy to improve the performance and energy density of sodium ion batteries with Na ₄ V ₂ (PO ₄) ₃ as the cathode material. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23368-23375	13	13

201	Porous Membrane with High Selectivity for Alkaline Quinone-Based Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48533-48541	9.5	8
200	An all-weather Li/LiV ₂ (PO ₄) ₃ primary battery with improved shelf-life based on the in situ modification of the cathode/electrolyte interface. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16951-16959	3.3	3
199	Membranes with Well-Defined Selective Layer Regulated by Controlled Solvent Diffusion for High Power Density Flow Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2001382	21.8	28
198	Low-Cost Titanium-Bromine Flow Battery with Ultrahigh Cycle Stability for Grid-Scale Energy Storage. <i>Advanced Materials</i> , 2020 , 32, e2005036	24	9
197	Cost, performance prediction and optimization of a vanadium flow battery by machine-learning. <i>Energy and Environmental Science</i> , 2020 , 13, 4353-4361	35.4	17
196	Trithiocyanuric acid derived g-C ₃ N ₄ for anchoring the polysulfide in LiS batteries application. <i>Journal of Energy Chemistry</i> , 2020 , 43, 71-77	12	39
195	Ultrafast and Stable Li-(De)intercalation in a Large Single Crystal H-Nb O Anode via Optimizing the Homogeneity of Electron and Ion Transport. <i>Advanced Materials</i> , 2020 , 32, e2001001	24	36
194	LiCr(MoO ₄) ₂ : a new high specific capacity cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 567-573	13	16
193	Highly stable zinc-bromine single flow batteries with super high energy density for stationary energy storage. <i>Energy and Environmental Science</i> , 2019 , 12, 1834-1839	35.4	101
192	N-Doped Nanoporous Carbon from Biomass as a Highly Efficient Electrocatalyst for the CO ₂ Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5249-5255	8.3	21
191	Polybenzimidazole membrane with dual proton transport channels for vanadium flow battery applications. <i>Journal of Membrane Science</i> , 2019 , 586, 202-210	9.6	31
190	Advanced Porous Membranes with Tunable Morphology Regulated by Ionic Strength of Nonsolvent for Flow Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24107-24113	9.5	27
189	Scalable and Economic Synthesis of High-Performance Na ₃ V ₂ (PO ₄) ₂ F ₃ by a Solvothermal Ball-Milling Method. <i>ACS Energy Letters</i> , 2019 , 4, 1565-1571	20.1	43
188	Promoting the Transformation of Li ₂ S to Li ₂ S ₈ : Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901220	24	186
187	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	15.6	13
186	A novel aqueous Li ⁺ (or Na ⁺)/Br ⁻ hybrid-ion battery with super high areal capacity and energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13050-13059	13	8
185	The Challenge of Lithium Metal Anodes for Practical Applications. <i>Small Methods</i> , 2019 , 3, 1800551	12.8	42
184	A highly stable neutral viologen/bromine aqueous flow battery with high energy and power density. <i>Chemical Communications</i> , 2019 , 55, 4801-4804	5.8	45

183	Fast kinetics of Mg ²⁺ /Li ⁺ hybrid ions in a polyanion Li ₃ V ₂ (PO ₄) ₃ cathode in a wide temperature range. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9968-9976	13	27
182	Membranes Fabricated by Solvent treatment for Flow Battery: Effects of initial structures and intrinsic properties. <i>Journal of Membrane Science</i> , 2019 , 577, 212-218	9.6	12
181	Tuning the electrocatalytic properties of a Cu electrode with organic additives containing amine group for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5453-5462	13	22
180	Aqueous Flow Batteries: Research and Development. <i>Chemistry - A European Journal</i> , 2019 , 25, 1649-1664	48	54
179	Highly selective core-shell structural membrane with cage-shaped pores for flow battery. <i>Energy Storage Materials</i> , 2019 , 17, 325-333	19.4	10
178	Mixed Matrix Membranes: A Cost-Effective Mixed Matrix Polyethylene Porous Membrane for Long-Cycle High Power Density Alkaline Zinc-Based Flow Batteries (Adv. Funct. Mater. 29/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970201	15.6	1
177	Bi-Modified Zn Catalyst for Efficient CO ₂ Electrochemical Reduction to Formate. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15190-15196	8.3	22
176	Progress and Perspectives of Flow Battery Technologies. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 492-506	6.3	65
175	Going Nano with Confined Effects to Construct Pomegranate-like Cathode for High-Energy and High-Power Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28934-28942	9.5	2
174	Advanced Materials for Zinc-Based Flow Battery: Development and Challenge. <i>Advanced Materials</i> , 2019 , 31, e1902025	24	77
173	A TiN Nanorod Array 3D Hierarchical Composite Electrode for Ultrahigh-Power-Density Bromine-Based Flow Batteries. <i>Advanced Materials</i> , 2019 , 31, e1904690	24	23
172	Giving comes before receiving—High performance wide temperature range Li-ion battery with Li ₅ V ₂ (PO ₄) ₃ as both cathode material and extra Li donor. <i>Nano Energy</i> , 2019 , 66, 104175	17.1	17
171	Long Cycle Life Lithium Metal Batteries Enabled with Upright Lithium Anode. <i>Advanced Functional Materials</i> , 2019 , 29, 1806752	15.6	60
170	Constructing high-performance 3D porous self-standing electrodes with various morphologies and shapes by a flexible phase separation-derived method. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22550-22558	13	7
169	Dual-Stimuli-Responsive Cross-Linked Graphene Oxide/Poly(vinyl alcohol) Membranes with Anisotropic Liquid Penetration Behaviors. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 3413-3421	4.3	4
168	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	24	2
167	Battery assembly optimization: Tailoring the electrode compression ratio based on the polarization analysis in vanadium flow batteries. <i>Applied Energy</i> , 2019 , 235, 495-508	10.7	23
166	Abrupt Structural Transformation in Asymmetric ABPOF (A = K, Rb, Cs). <i>Inorganic Chemistry</i> , 2019 , 58, 1733-1737	5.1	11

165	Advanced acid-base blend ion exchange membranes with high performance for vanadium flow battery application. <i>Journal of Membrane Science</i> , 2018 , 553, 25-31	9.6	57
164	VSC-doping and VSU-doping of Na ₃ V ₂ -xTi _x (PO ₄) ₂ F ₃ compounds for sodium ion battery cathodes: Analysis of electrochemical performance and kinetic properties. <i>Nano Energy</i> , 2018 , 47, 340-352	17.1	74
163	A beryllium-free deep-UV nonlinear optical material CsNaMgP ₂ O ₇ with honeycomb-like topological layers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3910-3916	7.1	35
162	Quasi-Stable Electroless Ni ₃ P Deposition: A Pivotal Strategy to Create Flexible Li ₂ S Pouch Batteries with Bench Mark Cycle Stability and Specific Capacity. <i>Advanced Functional Materials</i> , 2018 , 28, 1707272	15.6	17
161	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	6.1	71
160	Towards enhanced sodium storage by investigation of the Li ion doping and rearrangement mechanism in Na ₃ V ₂ (PO ₄) ₃ for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4209-4213	13	38
159	Low-Cost Room-Temperature Synthesis of NaVO ₂ ·1.69H ₂ O Nanobelts for Mg Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4757-4766	9.5	38
158	Polysulfide Stabilization: A Pivotal Strategy to Achieve High Energy Density Li ₂ S Batteries with Long Cycle Life. <i>Advanced Functional Materials</i> , 2018 , 28, 1704987	15.6	39
157	Selective Electrochemical Reduction of Carbon Dioxide Using Cu Based Metal Organic Framework for CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2480-2489	9.5	67
156	LiVBO: a new nano-rod cathode material for lithium ion batteries. <i>Nanoscale</i> , 2018 , 10, 1997-2003	7.7	5
155	Ultrathin Bismuth Nanosheets as a Highly Efficient CO Reduction Electrocatalyst. <i>ChemSusChem</i> , 2018 , 11, 848-853	8.3	84
154	A Long Cycle Life, Self-Healing Zinc-Iodine Flow Battery with High Power Density. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11171-11176	16.4	91
153	Mixing Halogens To Assemble an All-Inorganic Layered Perovskite with Warm White-Light Emission. <i>Chemistry - A European Journal</i> , 2018 , 24, 9243-9246	4.8	10
152	Highly selective charged porous membranes with improved ion conductivity. <i>Nano Energy</i> , 2018 , 48, 353-360	13.6	30
151	Anchor and activate sulfide with LiTi ₂ (PO ₄) _{2.88} F _{0.12} nano spheres for lithium sulfur battery application. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7639-7648	13	15
150	Tuning the gas separation performance of fluorinated and sulfonated PEEK membranes by incorporation of zeolite 4A. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45952	2.9	26
149	Flow field design and optimization of high power density vanadium flow batteries: A novel trapezoid flow battery. <i>AIChE Journal</i> , 2018 , 64, 782-795	3.6	28
148	Rücktitelbild: A Long Cycle Life, Self-Healing Zinc-Iodine Flow Battery with High Power Density (Angew. Chem. 35/2018). <i>Angewandte Chemie</i> , 2018 , 130, 11644-11644	3.6	

147	Solvent treatment: the formation mechanism of advanced porous membranes for flow batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15569-15576	13	13
146	Progress on the electrode materials towards vanadium flow batteries (VFBs) with improved power density. <i>Journal of Energy Chemistry</i> , 2018 , 27, 1292-1303	12	44
145	The Effect of Organic Additives on the Activity and Selectivity of CO Electroreduction: The Role of Functional Groups. <i>ChemSusChem</i> , 2018 , 11, 2904-2911	8.3	7
144	A Long Cycle Life, Self-Healing Zinc/Bismuth Flow Battery with High Power Density. <i>Angewandte Chemie</i> , 2018 , 130, 11341-11346	3.6	44
143	All-NASICON LVP-LTP aqueous lithium ion battery with excellent stability and low-temperature performance. <i>Electrochimica Acta</i> , 2018 , 278, 279-289	6.7	40
142	Porous polyetherimide membranes with tunable morphology for lithium-ion battery. <i>Journal of Membrane Science</i> , 2018 , 565, 42-49	9.6	32
141	Magnesium/Lithium-Ion Hybrid Battery with High Reversibility by Employing NaVO ₂ ·6.9H ₂ O Nanobelts as a Positive Electrode. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21313-21320	9.5	40
140	Multilayered Zn nanosheets as an electrocatalyst for efficient electrochemical reduction of CO ₂ . <i>Journal of Catalysis</i> , 2018 , 357, 154-162	7.3	59
139	From zeolite-type metal organic framework to porous nano-sheet carbon: High activity positive electrode material for bromine-based flow batteries. <i>Nano Energy</i> , 2018 , 44, 240-247	17.1	30
138	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	19.4	52
137	Multi-functional nanowall arrays with unrestricted Li ⁺ transport channels and an integrated conductive network for high-areal-capacity LiB batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22958-22965	13	25
136	Vapour induced phase inversion: preparing high performance self-standing sponge-like electrodes with a sulfur loading of over 10 mg cm ⁻² . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24066-24070	13	4
135	Superior Na-storage performance of molten-state-blending-synthesized monoclinic NaVPO ₄ F nanoplates for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24201-24209	13	24
134	Li ₈ NaRb ₃ (SO ₄) ₆ ·2H ₂ O as a new sulfate deep-ultraviolet nonlinear optical material. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12240-12244	7.1	42
133	A membrane-free interfacial battery with high energy density. <i>Chemical Communications</i> , 2018 , 54, 11626-11629	5.8	1629
132	Inhibition of Zinc Dendrite Growth in Zinc-Based Batteries. <i>ChemSusChem</i> , 2018 , 11, 3996-4006	8.3	149
131	A Langbeinite-Type Yttrium Phosphate LiCsY(PO). <i>Inorganic Chemistry</i> , 2018 , 57, 13087-13091	5.1	17
130	Advanced porous membranes with slit-like selective layer for flow battery. <i>Nano Energy</i> , 2018 , 54, 73-81	17.1	33

129	Physical Properties of a Promising Nonlinear Optical Crystal K ₃ Ba ₃ Li ₂ Al ₄ B ₆ O ₂₀ F. <i>Crystal Growth and Design</i> , 2018 , 18, 7368-7372	3.5	5
128	Li ₃ Cr(MoO ₄) ₃ : a NASICON-type high specific capacity cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19107-19112	13	13
127	Negatively charged nanoporous membrane for a dendrite-free alkaline zinc-based flow battery with long cycle life. <i>Nature Communications</i> , 2018 , 9, 3731	17.4	76
126	Mechanism and transfer behavior of ions in Nafion membranes under alkaline media. <i>Journal of Membrane Science</i> , 2018 , 566, 8-14	9.6	21
125	Progress and prospect for NASICON-type Na ₃ V ₂ (PO ₄) ₃ for electrochemical energy storage. <i>Journal of Energy Chemistry</i> , 2018 , 27, 1597-1617	12	56
124	Special report on the achievements realized by researchers of Chinese Academy of Sciences in the field of energy storage technologies. <i>Journal of Energy Storage</i> , 2018 , 18, 285-294	7.8	3
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121	BiMnO: a new mullite-type anode material for lithium-ion batteries. <i>Dalton Transactions</i> , 2018 , 47, 7739-7746	4.46	5
120	A multi-electron transfer ferrocene derivative positive redox moiety with improved solubility and potential. <i>Chemical Communications</i> , 2018 , 54, 8419-8422	5.8	13
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116	Advanced charged porous membranes with flexible internal crosslinking structures for vanadium flow batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6193-6199	13	22
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112	Y-Doped Na ₃ V ₂ (PO ₄) ₂ F ₃ compounds for sodium ion battery cathodes: electrochemical performance and analysis of kinetic properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10928-10935	13	76

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108	Porous membranes in secondary battery technologies. <i>Chemical Society Reviews</i> , 2017 , 46, 2199-2236	58.5	256
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102	A Low-Cost Neutral Zinc-Iron Flow Battery with High Energy Density for Stationary Energy Storage. <i>Angewandte Chemie</i> , 2017 , 129, 15149-15153	3.6	10
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5	Organic Electrolytes for pH-Neutral Aqueous Organic Redox Flow Batteries. <i>Advanced Functional Materials</i> , 2108777	15.6	4
4	Highly stable titanium-manganese single flow batteries for stationary energy storage. <i>Journal of Materials Chemistry A</i> ,	13	5

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2	Machine Learning for Flow Batteries: Opportunities and Challenges. <i>Chemical Science</i> ,	9.4	0
1	A 60°C Low-Temperature Aqueous Lithium Ion-Bromine Battery with High Power Density Enabled by Electrolyte Design. <i>Advanced Energy Materials</i> ,2200728	21.8	0