

Feng Wu

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.

310 papers	13,075 citations	66 h-index	99 g-index
325 ext. papers	16,948 ext. citations	11.1 avg, IF	7.03 L-index

#	Paper	IF	Citations
310	Synergetic Anion Vacancies and Dense Heterointerfaces into Bimetal Chalcogenide Nanosheet Arrays for Boosting Electrocatalysis Sulfur Conversion.. <i>Advanced Materials</i> , 2022 , e2109552	24	9
309	Toward Highly Stable Anode for Secondary Batteries: Employing TiO Shell as Elastic Buffering Marix for FeO Nanoparticles.. <i>Small</i> , 2022 , e2105713	11	3
308	An Ion-Dipole-Reinforced Polyether Electrolyte with Ion-Solvation Cages Enabling High Voltage-Tolerant and Ion-Conductive Solid-State Lithium Metal Batteries (Adv. Funct. Mater. 5/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270031	15.6	0
307	Defects and sulfur-doping design of porous carbon spheres for high-capacity potassium-ion storage. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 682-689	13	7
306	Tailoring Defects in Hard Carbon Anode towards Enhanced Na Storage Performance. <i>Energy Material Advances</i> , 2022 , 2022, 1-11	1	6
305	Establishing Thermal Infusion Method for Stable Zinc Metal Anodes in Aqueous Zinc-ion Batteries.. <i>Advanced Materials</i> , 2022 , e2200782	24	10
304	Environmental and economic assessment of structural repair technologies for spent lithium-ion battery cathode materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 942-952	3.1	1
303	Solvent Effects on Kinetics and Electrochemical Performances of Rechargeable Aluminum Batteries. <i>Energy Material Advances</i> , 2022 , 2022, 1-10	1	4
302	A Designed Lithiophilic Carbon Channel on Separator to Regulate Lithium Deposition Behavior. <i>Small</i> , 2021 , e2104390	11	0
301	Closed-loop selective recycling process of spent LiNiCoMnO batteries by thermal-driven conversion. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127757	12.8	3
300	High-Performance Aqueous Zinc Batteries Based on Organic/Organic Cathodes Integrating Multiredox Centers. <i>Advanced Materials</i> , 2021 , e2106469	24	10
299	Encapsulation of Metallic Zn in a Hybrid MXene/Graphene Aerogel as a Stable Zn Anode for Foldable Zn-Ion Batteries. <i>Advanced Materials</i> , 2021 , e2106897	24	26
298	From Flower-Like to Spherical Deposition: A GCNT Aerogel Scaffold for Fast-Charging Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2102454	21.8	2
297	Lightweight Shield to Stabilize Li Metal Anodes at High Current Rates. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11878-11885	6.1	1
296	Rational Design of MOF-Based Materials for Next-Generation Rechargeable Batteries. <i>Nano-Micro Letters</i> , 2021 , 13, 203	19.5	20
295	An Antipulverization and High-Continuity Lithium Metal Anode for High-Energy Lithium Batteries. <i>Advanced Materials</i> , 2021 , e2105029	24	2
294	Engineering Catalytic CoSe-ZnSe Heterojunctions Anchored on Graphene Aerogels for Bidirectional Sulfur Conversion Reactions. <i>Advanced Science</i> , 2021 , e2103456	13.6	9

293	Roles of Fast-Ion Conductor LiTaO ₃ Modifying Ni-rich Cathode Material for Li-Ion Batteries. <i>ChemSusChem</i> , 2021 , 14, 1955-1961	8.3	9
292	High-Mass-Loading Electrodes for Advanced Secondary Batteries and Supercapacitors. <i>Electrochemical Energy Reviews</i> , 2021 , 4, 382-446	29.3	41
291	Effect of Electrolyte Additives on the Cycling Performance of Li Metal and the Kinetic Mechanism Analysis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18283-18293	9.5	1
290	Bimetallic Antimony-Vanadium Oxide Nanoparticles Embedded in Graphene for Stable Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21127-21137	9.5	1
289	Competitive Solvation Enhanced Stability of Lithium Metal Anode in Dual-Salt Electrolyte. <i>Nano Letters</i> , 2021 , 21, 3310-3317	11.5	31
288	Advanced Li-S Batteries Enabled by a Biomimetic Polysulfide-Engulfing Net. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23811-23821	9.5	0
287	A Universal Method for Enhancing the Structural Stability of Ni-Rich Cathodes Via the Synergistic Effect of Dual-Element Cosubstitution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24925-24936	9.5	16
286	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , 33, e2100810	24	35
285	Improved Electrochemical Performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials Induced by a Facile Polymer Coating for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6205-6213	6.1	2
284	Metal Chalcogenides with Heterostructures for High-Performance Rechargeable Batteries. <i>Small Science</i> , 2021 , 1, 2100012		21
283	Recovery and Reuse of Anode Graphite from Spent Lithium-Ion Batteries via Citric Acid Leaching. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6261-6268	6.1	12
282	Ultrathin Surface Coating of Nitrogen-Doped Graphene Enables Stable Zinc Anodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101649	24	62
281	Elucidating the Mechanism of Fast Na Storage Kinetics in Ether Electrolytes for Hard Carbon Anodes. <i>Advanced Materials</i> , 2021 , 33, e2008810	24	37
280	Self-Assembly of 0D-2D Heterostructure Electrocatalyst from MOF and MXene for Boosted Lithium Polysulfide Conversion Reaction. <i>Advanced Materials</i> , 2021 , 33, e2101204	24	38
279	Burning magnesium in carbon dioxide for highly effective phosphate removal 2021 , 3, 330-337		1
278	Lithium Induced Nano-Sized Copper with Exposed Lithiophilic Surfaces to Achieve Dense Lithium Deposition for Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2006950	15.6	33
277	Research Progress of Lithium Plating on Graphite Anode in Lithium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 165-173	4.9	12
276	Interfacial Degradation and Optimization of Li-rich Cathode Materials <i>Chinese Journal of Chemistry</i> , 2021 , 39, 402-420	4.9	3

275	Multi-electron Reaction Materials for High-Energy-Density Secondary Batteries: Current Status and Prospective. <i>Electrochemical Energy Reviews</i> , 2021 , 4, 35-66	29.3	33
274	Ultrathin 3 V Spinel Clothed Layered Lithium-Rich Oxides as Heterostructured Cathode for High-Energy and High-Power Li-ion Batteries <i>Chinese Journal of Chemistry</i> , 2021 , 39, 345-352	4.9	4
273	Strategies of Removing Residual Lithium Compounds on the Surface of Ni-Rich Cathode Materials <i>Chinese Journal of Chemistry</i> , 2021 , 39, 189-198	4.9	18
272	High-Temperature Storage Deterioration Mechanism of Cylindrical 21700-Type Batteries Using Ni-Rich Cathodes under Different SOC. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6286-6297	9.5	7
271	A lithium-ion battery recycling technology based on a controllable product morphology and excellent performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18623-18631	13	4
270	Regulating the Solvation Structure of Nonflammable Electrolyte for Dendrite-Free Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 681-687	9.5	10
269	Powering lithium-sulfur batteries by ultrathin sulfurized polyacrylonitrile nanosheets. <i>Nanoscale</i> , 2021 , 13, 16690-16695	7.7	1
268	Hard Carbon Anode Materials for Sodium-Ion Batteries 2021 , 87-109		
267	Sustainable Regeneration of High-Performance $\text{Li}_{1-x}\text{Na}_x\text{CoO}_2$ from Cathode Materials in Spent Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2607-2615	6.1	7
266	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. <i>Nano Letters</i> , 2021 , 21, 2074-2080	11.5	12
265	Fe_2VO_4 Nanoparticles Anchored on Ordered Mesoporous Carbon with Pseudocapacitive Behaviors for Efficient Sodium Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2009756	15.6	10
264	Hierarchical Triple-Shelled MnCo_2O_4 Hollow Microspheres as High-Performance Anode Materials for Potassium-Ion Batteries. <i>Small</i> , 2021 , 17, e2007597	11	14
263	Local Strong Solvation Electrolyte Trade-Off between Capacity and Cycle Life of Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101831	15.6	9
262	Nature-inspired porous multichannel carbon monolith: Molecular cooperative enables sustainable production and high-performance capacitive energy storage. <i>Informa Materials</i> , 2021 , 3, 1154	23.1	4
261	Anion-Doped Cobalt Selenide with Porous Architecture for High-Rate and Flexible Lithium-Sulfur Batteries. <i>Small Methods</i> , 2021 , 5, e2100649	12.8	10
260	Resolving the Structural Defects of Spent Li CoO Particles to Directly Reconstruct High Voltage Performance Cathode for Lithium-Ion Batteries. <i>Small Methods</i> , 2021 , 5, e2100672	12.8	3
259	Sublimated Se-Induced Formation of Dual-Conductive Surface Layers for High-Performance Ni-Rich Layered Cathodes. <i>ChemElectroChem</i> , 2021 , 8, 4207	4.3	3
258	How Can the Electrode Influence the Formation of the Solid Electrolyte Interface?. <i>ACS Energy Letters</i> , 2021 , 6, 3307-3320	20.1	12

257	Cobalt Selenide Hollow Polyhedron Encapsulated in Graphene for High-Performance Lithium/Sodium Storage. <i>Small</i> , 2021 , 17, e2102893	11	13
256	Continuous Conductive Networks Built by Prussian Blue Cubes and Mesoporous Carbon Lead to Enhanced Sodium-Ion Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38202-38212	9.5	5
255	Vertical Channels Design for Polymer Electrolyte to Enhance Mechanical Strength and Ion Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42957-42965	9.5	3
254	Boosting Sodium Storage Performance of Hard Carbon Anodes by Pore Architecture Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47671-47683	9.5	7
253	Tailoring double-layer aromatic polymers with multi-active sites towards high performance aqueous Zn-organic batteries. <i>Materials Horizons</i> , 2021 , 8, 3124-3132	14.4	1
252	Boosting the ultrahigh initial coulombic efficiency of porous carbon anodes for sodium-ion batteries via in situ fabrication of a passivation interface. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10780-10788	13	8
251	P-Doped Ni/NiO Heterostructured Yolk-Shell Nanospheres Encapsulated in Graphite for Enhanced Lithium Storage. <i>Small</i> , 2021 , e2105897	11	3
250	High Pseudocapacitance Boosts Ultrafast, High-Capacity Sodium Storage of 3D Graphene Foam-Encapsulated TiO Architecture. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23939-23950	9.5	14
249	Electrocatalytic Interlayer with Fast Lithium Polysulfides Diffusion for Lithium Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. <i>Advanced Functional Materials</i> , 2020 , 30, 2000742	15.6	48
248	Tuning Cobalt-Free Nickel-Rich Layered LiNi _{0.9} Mn _{0.1} O ₂ Cathode Material for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2020 , 7, 2637-2642	4.3	8
247	Synthesis of Ni-Rich Cathode Material from Maleic Acid-Leachate of Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7839-7850	8.3	13
246	A Soft Lithiophilic Graphene Aerogel for Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 2002013	15.6	34
245	A Mixed Modified Layer Formed In Situ to Protect and Guide Lithium Plating/Stripping Behavior. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31411-31418	9.5	12
244	A leaf-like Al ₂ O ₃ -based quasi-solid electrolyte with a fast Li ⁺ conductive interface for stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7280-7287	13	15
243	MOF-derived lithiophilic CuO nanorod arrays for stable lithium metal anodes. <i>Nanoscale</i> , 2020 , 12, 9416-9422	9.4	19
242	Densely Packed 3D Corrugated Papery Electrodes as Polysulfide Reservoirs for Lithium Sulfur Battery with Ultrahigh Volumetric Capacity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5648-5661	8.3	8
241	Fast Capacitive Energy Storage and Long Cycle Life in a Deintercalation-Intercalation Cathode Material. <i>Small</i> , 2020 , 16, e1906025	11	2
240	A High-Efficiency CoSe Electrocatalyst with Hierarchical Porous Polyhedron Nanoarchitecture for Accelerating Polysulfides Conversion in Li-S Batteries. <i>Advanced Materials</i> , 2020 , 32, e2002168	24	123

- 239 Biodegradable Bacterial Cellulose-Supported Quasi-Solid Electrolyte for Lithium Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 13950-13958 9.5 20
- 238 Cobalt nanoparticles shielded in N-doped carbon nanotubes for high areal capacity Li-S batteries. *Chemical Communications*, **2020**, 56, 3007-3010 5.8 25
- 237 Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. *Chemical Reviews*, **2020**, 120, 7020-7063 68.1 358
- 236 Dendrite-Free Lithium Anodes with a Metal Organic Framework-Derived Cake-like TiO₂ Coating on the Separator. *ChemElectroChem*, **2020**, 7, 2159-2164 4.3 4
- 235 Thermodynamic analysis and kinetic optimization of high-energy batteries based on multi-electron reactions. *National Science Review*, **2020**, 7, 1367-1386 10.8 12
- 234 Cycling Performance and Kinetic Mechanism Analysis of a Li Metal Anode in Series-Concentrated Ether Electrolytes. *ACS Applied Materials & Interfaces*, **2020**, 12, 8366-8375 9.5 10
- 233 A theoretical study on Na solvation in carbonate ester and ether solvents for sodium-ion batteries. *Physical Chemistry Chemical Physics*, **2020**, 22, 2164-2175 3.6 17
- 232 A hybrid solid electrolyte Li_{0.33}La_{0.557}TiO₃/poly(acrylonitrile) membrane infiltrated with a succinonitrile-based electrolyte for solid state lithium-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 706-713 13 38
- 231 Microsphere-Like SiO₂/MXene Hybrid Material Enabling High Performance Anode for Lithium Ion Batteries. *Small*, **2020**, 16, e1905430 11 48
- 230 In situ formation of a LiF and LiAl alloy anode protected layer on a Li metal anode with enhanced cycle life. *Journal of Materials Chemistry A*, **2020**, 8, 1247-1253 13 31
- 229 Sodium-Ion Batteries: Toward Rapid-Charging Sodium-Ion Batteries using Hybrid-Phase Molybdenum Sulfide Selenide-Based Anodes (Adv. Mater. 40/2020). *Advanced Materials*, **2020**, 32, 2070302 24 2
- 228 In situ formation of a Li₃N alloy protected layer for inducing lateral growth of dendrites. *Journal of Materials Chemistry A*, **2020**, 8, 23574-23579 13 6
- 227 Co-Construction of Sulfur Vacancies and Heterojunctions in Tungsten Disulfide to Induce Fast Electronic/Ionic Diffusion Kinetics for Sodium-Ion Batteries. *Advanced Materials*, **2020**, 32, e2005802 24 100
- 226 Glucose oxidase-based biocatalytic acid-leaching process for recovering valuable metals from spent lithium-ion batteries. *Waste Management*, **2020**, 114, 166-173 8.6 9
- 225 Rational Tuning of a LiSiO₃-Based Hybrid Interface with Unique Stepwise Prelithiation for Dendrite-Proof and High-Rate Lithium Anodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 39362-39371 9.5 15
- 224 Riveting Dislocation Motion: The Inspiring Role of Oxygen Vacancies in the Structural Stability of Ni-Rich Cathode Materials. *ACS Applied Materials & Interfaces*, **2020**, 12, 37208-37217 9.5 27
- 223 Leaching Mechanisms of Recycling Valuable Metals from Spent Lithium-Ion Batteries by a Malonic Acid-Based Leaching System. *ACS Applied Energy Materials*, **2020**, 3, 8532-8542 6.1 23
- 222 Clean the Ni-Rich Cathode Material Surface With Boric Acid to Improve Its Storage Performance. *Frontiers in Chemistry*, **2020**, 8, 573 5 12

221	An "Ether-In-Water" Electrolyte Boosts Stable Interfacial Chemistry for Aqueous Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004017	24	42
220	Toward Rapid-Charging Sodium-Ion Batteries using Hybrid-Phase Molybdenum Sulfide Selenide-Based Anodes. <i>Advanced Materials</i> , 2020 , 32, e2003534	24	34
219	Advances and Prospects of Surface Modification on Nickel-Rich Materials for Lithium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1817-1831	4.9	11
218	A Comprehensive Review of the Advancement in Recycling the Anode and Electrolyte from Spent Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13527-13554	8.3	61
217	Electrolytes for Rechargeable Lithium-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2974-2997	16.4	89
216	Elektrolyte für wiederaufladbare Lithium-Luft-Batterien. <i>Angewandte Chemie</i> , 2020 , 132, 2994-3019	3.6	12
215	Improved Stability of Layered and Porous Nickel-Rich Cathode Materials by Relieving the Accumulation of Inner Stress. <i>ChemSusChem</i> , 2020 , 13, 426-433	8.3	17
214	Recycling supercapacitor activated carbons for adsorption of silver (I) and chromium (VI) ions from aqueous solutions. <i>Chemosphere</i> , 2020 , 238, 124638	8.4	24
213	Recent progress on MOF-derived carbon materials for energy storage		76
212	CoS Nanorods as an Electrocatalyst To Enhance Polysulfide Conversion and Alleviate Passivation in Li-S Batteries under Lean Electrolyte Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21701-21708	9.5	12
211	Development of a LiFePO ₄ -based high power lithium secondary battery for HEVs applications. <i>Rare Metals</i> , 2020 , 39, 1457-1463	5.5	25
210	Biochars preparation from waste sludge and composts under different carbonization conditions and their Pb(II) adsorption behaviors. <i>Water Science and Technology</i> , 2019 , 80, 1063-1075	2.2	7
209	Effect of the Activation Process on the Microstructure and Electrochemical Properties of N-Doped Carbon Cathodes in Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34997-35004	9.5	15
208	Low-Temperature Molten-Salt-Assisted Recovery of Valuable Metals from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16144-16150	8.3	49
207	An MXene/CNTs@P nanohybrid with stable TiO ₂ bonds for enhanced lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21766-21773	13	45
206	Maleic, glycolic and acetoacetic acids-leaching for recovery of valuable metals from spent lithium-ion batteries: leaching parameters, thermodynamics and kinetics. <i>Royal Society Open Science</i> , 2019 , 6, 191061	3.3	7
205	High-Capacity Interstitial Mn-Incorporated MnFeO/Graphene Nanocomposite for Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37812-37821	9.5	27
204	Improving the Structure Stability of LiNiCoMnO by Surface Perovskite-like LaNiLiO Self-Assembling and Subsurface La Doping. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36751-36762	9.5	32

203	A green and effective room-temperature recycling process of LiFePO cathode materials for lithium-ion batteries. <i>Waste Management</i> , 2019 , 85, 437-444	8.6	50
202	A 3D flower-like VO ₂ /MXene hybrid architecture with superior anode performance for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1315-1322	13	63
201	CF@rGO/PPy-S Hybrid Foam with Paper Window-like Microstructure as Freestanding and Flexible Cathode for the Lithium-Sulfur Battery. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4151-4158	6.1	10
200	Stable Conversion Mn ₃ O ₄ Li-Ion Battery Anode Material with Integrated Hierarchical and Core-Shell Structure. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5206-5213	6.1	9
199	Vanadium Organometallics as an Interfacial Stabilizer for Ca VO/Vanadyl Acetylacetonate Hybrid Nanocomposite with Enhanced Energy Density and Power Rate for Full Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23291-23302	9.5	9
198	Nature-Inspired, Graphene-Wrapped 3D MoS Ultrathin Microflower Architecture as a High-Performance Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22323-22331	9.5	64
197	Polypyrrole-Modified Prussian Blue Cathode Material for Potassium Ion Batteries via In Situ Polymerization Coating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22339-22345	9.5	44
196	Freestanding N-Doped Carbon Coated CuO Array Anode for Lithium-Ion and Sodium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1900252	3.5	5
195	Flexible Hydrogel Electrolyte with Superior Mechanical Properties Based on Poly(vinyl alcohol) and Bacterial Cellulose for the Solid-State Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15537-15542	9.5	53
194	Hand-in-Hand Reinforced rGO Film Used as an Auxiliary Functional Layer for High-Performance Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12544-12553	9.5	27
193	In situ generated spinel-phase skin on layered Li-rich short nanorods as cathode materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2019 , 54, 9098-9110	4.3	10
192	A Li ⁺ conductive metal organic framework electrolyte boosts the high-temperature performance of dendrite-free lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9530-9536	13	57
191	Electrolytes and Electrolyte/Electrode Interfaces in Sodium-Ion Batteries: From Scientific Research to Practical Application. <i>Advanced Materials</i> , 2019 , 31, e1808393	24	141
190	An Ionic Liquid/Poly(vinylidene fluoride-co-hexafluoropropylene) Gel-Polymer Electrolyte with a Compatible Interface for Sodium-Based Batteries. <i>ChemElectroChem</i> , 2019 , 6, 2423-2429	4.3	12
189	Lotus Seedpod-Derived Hard Carbon with Hierarchical Porous Structure as Stable Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12554-12561	9.5	84
188	Fluffy carbon-coated red phosphorus as a highly stable and high-rate anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11205-11213	13	39
187	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1806532	24	109
186	Hollow NaTi _{1.9} Sn _{0.1} (PO ₄) ₃ @C Nanoparticles for Anodes of Sodium-Ion Batteries with Superior Rate and Cycling Properties. <i>Energy Technology</i> , 2019 , 7, 1900079	3.5	5

185	Electrostatic Self-assembly of 0D-2D SnO Quantum Dots/TiCT MXene Hybrids as Anode for Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 65	19.5	83
184	Consolidating the grain boundary of the garnet electrolyte LLZTO with Li ₃ BO ₃ for high-performance LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /LiFePO ₄ hybrid solid batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20633-20639	13	25
183	Inhibition of Crystallization of Poly(ethylene oxide) by Ionic Liquid: Insight into Plasticizing Mechanism and Application for Solid-State Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43252-43260	9.5	31
182	Lithium-Ion Batteries: Inducing Favorable Cation Antisite by Doping Halogen in Ni-Rich Layered Cathode with Ultrahigh Stability (Adv. Sci. 4/2019). <i>Advanced Science</i> , 2019 , 6, 1970021	13.6	3
181	Paving the Path toward Reliable Cathode Materials for Aluminum-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1806510	24	138
180	Effects of a High-Concentration LiPF ₆ -Based Carbonate Ester Electrolyte for the Electrochemical Performance of a High-Voltage Layered LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8878-8884	6.1	12
179	Confined Growth of Nano-NaV(PO) in Porous Carbon Framework for High-Rate Na-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3107-3115	9.5	31
178	Use of Ce to Reinforce the Interface of Ni-Rich LiNi Co Mn O Cathode Materials for Lithium-Ion Batteries under High Operating Voltage. <i>ChemSusChem</i> , 2019 , 12, 935-943	8.3	71
177	Carbon Nanofiber Elastically Confined Nanoflowers: A Highly Efficient Design for Molybdenum Disulfide-Based Flexible Anodes Toward Fast Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5183-5192	9.5	34
176	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. <i>Nature Communications</i> , 2019 , 10, 73	17.4	169
175	Sufficient Utilization of Zirconium Ions to Improve the Structure and Surface properties of Nickel-Rich Cathode Materials for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 1639-1648	8.3	83
174	Insights into the Na ⁺ Storage Mechanism of Phosphorus-Functionalized Hard Carbon as Ultrahigh Capacity Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1702781	21.8	124
173	Designing Realizable and Scalable Techniques for Practical Lithium Sulfur Batteries: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1398-1414	6.4	43
172	Strongly Coupled Carbon Nanosheets/Molybdenum Carbide Nanocluster Hollow Nanospheres for High-Performance Aprotic Li-O Battery. <i>Small</i> , 2018 , 14, e1704366	11	28
171	Boosting Fast Sodium Storage of a Large-Scalable Carbon Anode with an Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2018 , 8, 1703159	21.8	90
170	3D Electronic Channels Wrapped Large-Sized Na V (PO) as Flexible Electrode for Sodium-Ion Batteries. <i>Small</i> , 2018 , 14, e1702864	11	83
169	Three-Dimensional Carbon Current Collector Promises Small Sulfur Molecule Cathode with High Areal Loading for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10882-10889	9.5	25
168	Innovative Application of Acid Leaching to Regenerate Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ Cathodes from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5959-5968	8.3	86

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157	Vitamin K as a high-performance organic anode material for rechargeable potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12559-12564	13	62
156	Stable CarbonBelenium Bonds for Enhanced Performance in Tremella-Like 2D Chalcogenide Battery Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1800927	21.8	52
155	Process for recycling mixed-cathode materials from spent lithium-ion batteries and kinetics of leaching. <i>Waste Management</i> , 2018 , 71, 362-371	8.6	163
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152	Tuning Microstructures of Graphene to Improve Power Capability of Rechargeable Hybrid Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37110-37118	9.5	13
151	Crumpled Ir Nanosheets Fully Covered on Porous Carbon Nanofibers for Long-Life Rechargeable Lithium-CO Batteries. <i>Advanced Materials</i> , 2018 , 30, e1803124	24	89
150	Chemical Synthesis of K ₂ S ₂ and K ₂ S ₃ for Probing Electrochemical Mechanisms in KB Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2858-2864	20.1	47

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34	Preparation and electrochemical properties of re-synthesized LiCoO ₂ from spent lithium-ion batteries. <i>Science Bulletin</i> , 2012 , 57, 4188-4194		24
33	Lithium–air and lithium–copper batteries based on a polymer stabilized interface between two immiscible electrolytic solutions (ITIES). <i>New Journal of Chemistry</i> , 2012 , 36, 2140	3.6	5
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31	Nanostructure and formation mechanism of Pt-WO ₃ /C nanocatalyst by ethylene glycol method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 377-383	1	4
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29	Capacitive Energy Storage on Fe/Li ₃ PO ₄ Grain Boundaries. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3803-3808	3.8	37
28	Improvement of Rate and Cycle Performance by Rapid Polyaniline Coating of a MWCNT/Sulfur Cathode. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24411-24417	3.8	162
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26	The Structure–Activity Relationship and Physicochemical Properties of Acetamide-Based Brønsted Acid Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20007-20015	3.8	12
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15	Synthesis of copolymers of 3-acryloyloxymethyl-3?-methyloxetane and 3-(2-(2-(2-methoxyethylenoxy)ethylenoxy)ethylenoxy)-3?-methyloxetane and their ionic conductivity properties. <i>Frontiers of Chemical Engineering in China</i> , 2007 , 1, 343-348		2
14	Hydrogen Generation from Ethanol Steam Reforming over Rare Earth Promoted Nickel-based Catalysts 2007 ,		1
13	Synthesis and characterization of homo- and copolymers of 3-(2-cyano ethoxy)methyl- and 3-[methoxy(triethylenoxy)]methyl-3?-methyl-oxetane. <i>Polymer International</i> , 2005 , 54, 1440-1448	3.3	15
12	New Binary Room-Temperature Molten Salt Electrolyte Based on Urea and LiTFSI. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9966-9969	3.4	66
11	Enhanced Electrochemical Performance of Ni-Rich Cathode Materials with an In Situ-Formed LiBO ₂ /B ₂ O ₃ Hybrid Coating Layer. <i>ACS Applied Energy Materials</i> ,	6.1	3
10	Progress in electrolyte and interface of hard carbon and graphite anode for sodium-ion battery		9
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8	Sustainable Recycling of Cathode Scrap towards High-Performance Anode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2103288	21.8	4
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4	In situ-formed flexible three-dimensional honeycomb-like film for a $\text{LiF}/\text{Li}_3\text{N}$ -enriched hybrid organic/inorganic interphase on the Li metal anode. <i>Materials Chemistry Frontiers</i> ,	7.8	3
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2	8.5 μm -Thick Flexible-Rigid Hybrid Solid Electrolyte/Lithium Integration for Air-Stable and Interface-Compatible All-Solid-State Lithium Metal Batteries. <i>Advanced Energy Materials</i> ,2200368	21.8	5
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