

# Feng Wu

## List of Publications by Year in descending order

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321  
papers

21,562  
citations

5268

83  
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14759

127  
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325  
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325  
docs citations

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times ranked

15092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. <i>Chemical Reviews</i> , 2020, 120, 7020-7063.	47.7	957
2	The pursuit of solid-state electrolytes for lithium batteries: from comprehensive insight to emerging horizons. <i>Materials Horizons</i> , 2016, 3, 487-516.	12.2	592
3	Sustainable nitrogen-doped porous carbon with high surface areas prepared from gelatin for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 19088.	6.7	373
4	Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Oxide Coated by Dual-Conductive Layers as High Performance Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29732-29743.	8.0	309
5	Ultrathin Surface Coating of Nitrogen-Doped Graphene Enables Stable Zinc Anodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2101649.	21.0	302
6	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. <i>Nature Communications</i> , 2019, 10, 73.	12.8	291
7	Effect of $\text{Ni}^{2+}$ Content on Lithium/Nickel Disorder for Ni-Rich Cathode Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7702-7708.	8.0	287
8	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.	21.0	281
9	Process for recycling mixed-cathode materials from spent lithium-ion batteries and kinetics of leaching. <i>Waste Management</i> , 2018, 71, 362-371.	7.4	267
10	Electrolytes and Electrolyte/Electrode Interfaces in Sodium-Ion Batteries: From Scientific Research to Practical Application. <i>Advanced Materials</i> , 2019, 31, e1808393.	21.0	264
11	Spinel/Layered Heterostructured Cathode Material for High-Capacity and High-Rate Li-Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 3722-3726.	21.0	249
12	Co-Construction of Sulfur Vacancies and Heterojunctions in Tungsten Disulfide to Induce Fast Electronic/Ionic Diffusion Kinetics for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2005802.	21.0	244
13	Effects of Mg doping on the remarkably enhanced electrochemical performance of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9578-9586.	10.3	236
14	Ultrathin Spinel Membrane-Encapsulated Layered Lithium-Rich Cathode Material for Advanced Li-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 3550-3555.	9.1	227
15	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. <i>Electrochemical Energy Reviews</i> , 2018, 1, 461-482.	25.5	215
16	Paving the Path toward Reliable Cathode Materials for Aluminum-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1806510.	21.0	214
17	Biomimetic ant-nest ionogel electrolyte boosts the performance of dendrite-free lithium batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1660-1667.	30.8	211
18	Recent progress on MOF-derived carbon materials for energy storage. , 2020, 2, 176-202.		198

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19	Multifunctional AlPO <sub>4</sub> Coating for Improving Electrochemical Properties of Low-Cost Li <sub>0.2</sub> Fe <sub>0.1</sub> Ni <sub>0.15</sub> Mn <sub>0.55</sub> O <sub>2</sub> Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 3773-3781.	8.0	189
20	Electrolytes for Rechargeable Lithium-Air Batteries. Angewandte Chemie - International Edition, 2020, 59, 2974-2997.	13.8	187
21	Ether-based electrolytes for sodium ion batteries. Chemical Society Reviews, 2022, 51, 4484-4536.	38.1	187
22	Nitrogen-Rich Mesoporous Carbon as Anode Material for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 27124-27130.	8.0	185
23	Self-Assembly of 0D-2D Heterostructure Electrocatalyst from MOF and MXene for Boosted Lithium Polysulfide Conversion Reaction. Advanced Materials, 2021, 33, e2101204.	21.0	183
24	High-Mass-Loading Electrodes for Advanced Secondary Batteries and Supercapacitors. Electrochemical Energy Reviews, 2021, 4, 382-446.	25.5	181
25	A Comprehensive Review of the Advancement in Recycling the Anode and Electrolyte from Spent Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 13527-13554.	6.7	179
26	Improvement of Rate and Cycle Performance by Rapid Polyaniline Coating of a MWCNT/Sulfur Cathode. Journal of Physical Chemistry C, 2011, 115, 24411-24417.	3.1	172
27	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. Advanced Materials, 2019, 31, e1806532.	21.0	172
28	Insights into the Na <sup>+</sup> Storage Mechanism of Phosphorus-Functionalized Hard Carbon as Ultrahigh Capacity Anodes. Advanced Energy Materials, 2018, 8, 1702781.	19.5	170
29	Anion-effects on electrochemical properties of ionic liquid electrolytes for rechargeable aluminum batteries. Journal of Materials Chemistry A, 2015, 3, 22677-22686.	10.3	165
30	Phosphorus-Doped Hard Carbon Nanofibers Prepared by Electrospinning as an Anode in Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 21335-21342.	8.0	164
31	An Effective Approach To Protect Lithium Anode and Improve Cycle Performance for Li-S Batteries. ACS Applied Materials & Interfaces, 2014, 6, 15542-15549.	8.0	157
32	Encapsulation of Metallic Zn in a Hybrid MXene/Graphene Aerogel as a Stable Zn Anode for Foldable Zn-Ion Batteries. Advanced Materials, 2022, 34, e2106897.	21.0	153
33	3D-0D Graphene-Fe <sub>3</sub> O <sub>4</sub> Quantum Dot Hybrids as High-Performance Anode Materials for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 26878-26885.	8.0	152
34	Selective Recovery of Li and Fe from Spent Lithium-Ion Batteries by an Environmentally Friendly Mechanochemical Approach. ACS Sustainable Chemistry and Engineering, 2018, 6, 11029-11035.	6.7	152
35	Crumpled Ir Nanosheets Fully Covered on Porous Carbon Nanofibers for Long-Life Rechargeable Lithium-CO <sub>2</sub> Batteries. Advanced Materials, 2018, 30, e1803124.	21.0	144
36	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. Nature Communications, 2016, 7, 11774.	12.8	143

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37	Rational Design of MOF-Based Materials for Next-Generation Rechargeable Batteries. Nano-Micro Letters, 2021, 13, 203.	27.0	143
38	Innovative Application of Acid Leaching to Regenerate $\text{Li}(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})\text{O}_2$ Cathodes from Spent Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 5959-5968.	6.7	140
39	Chemical Inhibition Method to Synthesize Highly Crystalline Prussian Blue Analogs for Sodium-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 31669-31676.	8.0	139
40	Elucidating the Mechanism of Fast Na Storage Kinetics in Ether Electrolytes for Hard Carbon Anodes. Advanced Materials, 2021, 33, e2008810.	21.0	139
41	Lotus Seedpod-Derived Hard Carbon with Hierarchical Porous Structure as Stable Anode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 12554-12561.	8.0	131
42	Development and Challenges of Functional Electrolytes for High-Performance Lithium-Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1800919.	14.9	129
43	High-Voltage and Noncorrosive Ionic Liquid Electrolyte Used in Rechargeable Aluminum Battery. ACS Applied Materials & Interfaces, 2016, 8, 27444-27448.	8.0	126
44	Solid-State Li-Ion Batteries Using Fast, Stable, Glassy Nanocomposite Electrolytes for Good Safety and Long Cycle-Life. Nano Letters, 2016, 16, 1960-1968.	9.1	124
45	Enhanced Sodium Ion Storage Behavior of P2-Type $\text{Na}_{2/3}\text{Fe}_{1/2}\text{Mn}_{1/2}\text{O}_2$ Synthesized via a Chelating Agent Assisted Route. ACS Applied Materials & Interfaces, 2016, 8, 2857-2865.	8.0	121
46	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. Advanced Materials, 2021, 33, e2100810.	21.0	121
47	Surface Modification of Li-Rich Cathode Materials for Lithium-Ion Batteries with a PEDOT:PSS Conducting Polymer. ACS Applied Materials & Interfaces, 2016, 8, 23095-23104.	8.0	119
48	Boosting Fast Sodium Storage of a Large-Scale Scalable Carbon Anode with an Ultralong Cycle Life. Advanced Energy Materials, 2018, 8, 1703159.	19.5	119
49	Sufficient Utilization of Zirconium Ions to Improve the Structure and Surface properties of Nickel-Rich Cathode Materials for Lithium-Ion Batteries. ChemSusChem, 2018, 11, 1639-1648.	6.8	117
50	Novel Solid-State Li/LiFePO <sub>4</sub> Battery Configuration with a Ternary Nanocomposite Electrolyte for Practical Applications. Advanced Materials, 2011, 23, 5081-5085.	21.0	116
51	The role of yttrium content in improving electrochemical performance of layered lithium-rich cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9760.	10.3	116
52	Open-Structured $\text{V}_2\text{O}_5 \cdot \text{H}_2\text{O}$ Nanoflakes as Highly Reversible Cathode Material for Monovalent and Multivalent Intercalation Batteries. Advanced Energy Materials, 2017, 7, 1602720.	19.5	116
53	3D Electronic Channels Wrapped Large-Sized $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as Flexible Electrode for Sodium-Ion Batteries. Small, 2018, 14, e1702864.	10.0	116
54	Flexible Hydrogel Electrolyte with Superior Mechanical Properties Based on Poly(vinyl alcohol) and Bacterial Cellulose for the Solid-State Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 15537-15542.	8.0	113

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55	Use of Ce to Reinforce the Interface of Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Materials for Lithium-Ion Batteries under High Operating Voltage. <i>ChemSusChem</i> , 2019, 12, 935-943.	6.8	113
56	Electrostatic Self-assembly of 2D $\text{SnO}_2$ Quantum Dots/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Hybrids as Anode for Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 65.	27.0	112
57	A 3D flower-like $\text{VO}_2$ /MXene hybrid architecture with superior anode performance for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1315-1322.	10.3	112
58	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.	6.7	111
59	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. <i>Nano Letters</i> , 2015, 15, 7431-7439.	9.1	110
60	Toward Practical High-Energy Batteries: A Modularly Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. <i>Advanced Materials</i> , 2017, 29, 1700598.	21.0	110
61	A green and effective room-temperature recycling process of $\text{LiFePO}_4$ cathode materials for lithium-ion batteries. <i>Waste Management</i> , 2019, 85, 437-444.	7.4	110
62	High-Rate and Cycling-Stable Nickel-Rich Cathode Materials with Enhanced $\text{Li}^+$ Diffusion Pathway. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 582-587.	8.0	108
63	3D coral-like nitrogen-sulfur co-doped carbon-sulfur composite for high performance lithium-sulfur batteries. <i>Scientific Reports</i> , 2015, 5, 13340.	3.3	104
64	Layer-by-Layer Assembled Architecture of Polyelectrolyte Multilayers and Graphene Sheets on Hollow Carbon Spheres/Sulfur Composite for High-Performance Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2016, 16, 5488-5494.	9.1	104
65	A Chemical Precipitation Method Preparing Hollow Core-Shell Heterostructures Based on the Prussian Blue Analogs as Cathode for Sodium-Ion Batteries. <i>Small</i> , 2018, 14, e1801246.	10.0	104
66	Nature-Inspired $\text{Na}_2\text{Ti}_3\text{O}_7$ Nanosheets-Formed Three-Dimensional Microflowers Architecture as a High-Performance Anode Material for Rechargeable Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11669-11677.	8.0	103
67	Three-dimensional fusiform hierarchical micro/nano $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ with a preferred orientation (110) plane as a high energy cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5942-5951.	10.3	101
68	"Liquid-in-Solid" and "Solid-in-Liquid" Electrolytes with High Rate Capacity and Long Cycling Life for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 848-856.	6.7	100
69	Na-Rich $\text{Na}_{3-x}\text{V}_2\text{Ni}_x(\text{PO}_4)_3/\text{C}$ for Sodium Ion Batteries: Controlling the Doping Site and Improving the Electrochemical Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27779-27787.	8.0	99
70	Engineered Biochar from Biofuel Residue: Characterization and Its Silver Removal Potential. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10634-10640.	8.0	98
71	High-Performance Aqueous Zinc Batteries Based on Organic/Organic Cathodes Integrating Multiredox Centers. <i>Advanced Materials</i> , 2021, 33, e2106469.	21.0	98
72	An MXene/CNTs@P nanohybrid with stable Ti-O-P bonds for enhanced lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21766-21773.	10.3	97

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73	Structural and Electrochemical Study of Hierarchical $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 21939-21947.	8.0	95
74	Preparation of Prussian Blue Submicron Particles with a Pore Structure by Two-Step Optimization for Na-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 16078-16086.	8.0	95
75	Competitive Solvation Enhanced Stability of Lithium Metal Anode in Dual-Salt Electrolyte. Nano Letters, 2021, 21, 3310-3317.	9.1	95
76	Preparation of $\text{MnO}_2$ -Modified Graphite Sorbents from Spent Li-Ion Batteries for the Treatment of Water Contaminated by Lead, Cadmium, and Silver. ACS Applied Materials & Interfaces, 2017, 9, 25369-25376.	8.0	94
77	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy $\text{Li-O}_2$ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23635-23645.	8.0	93
78	Expanding Interlayer Spacing of Hard Carbon by Natural $\text{K}^+$ Doping to Boost Na-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 27030-27038.	8.0	93
79	Nature-Inspired, Graphene-Wrapped 3D $\text{MoS}_2$ Ultrathin Microflower Architecture as a High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 22323-22331.	8.0	93
80	An "Ether-in-Water" Electrolyte Boosts Stable Interfacial Chemistry for Aqueous Lithium-Ion Batteries. Advanced Materials, 2020, 32, e2004017.	21.0	93
81	Can surface modification be more effective to enhance the electrochemical performance of lithium rich materials?. Journal of Materials Chemistry, 2012, 22, 1489-1497.	6.7	92
82	Microsphere-Like $\text{SiO}_2/\text{MXene}$ Hybrid Material Enabling High Performance Anode for Lithium Ion Batteries. Small, 2020, 16, e1905430.	10.0	90
83	Highly Safe Ionic Liquid Electrolytes for Sodium-Ion Battery: Wide Electrochemical Window and Good Thermal Stability. ACS Applied Materials & Interfaces, 2016, 8, 21381-21386.	8.0	88
84	Mesocarbon Microbead Carbon-Supported Magnesium Hydroxide Nanoparticles: Turning Spent Li-ion Battery Anode into a Highly Efficient Phosphate Adsorbent for Wastewater Treatment. ACS Applied Materials & Interfaces, 2016, 8, 21315-21325.	8.0	88
85	Platinum-Coated Hollow Graphene Nanocages as Cathode Used in Lithium-Oxygen Batteries. Advanced Functional Materials, 2016, 26, 7626-7633.	14.9	88
86	A $\text{Li}^+$ conductive metal organic framework electrolyte boosts the high-temperature performance of dendrite-free lithium batteries. Journal of Materials Chemistry A, 2019, 7, 9530-9536.	10.3	88
87	Electrocatalytic Interlayer with Fast Lithium-Polysulfides Diffusion for Lithium-Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. Advanced Functional Materials, 2020, 30, 2000742.	14.9	87
88	High voltage and safe electrolytes based on ionic liquid and sulfone for lithium-ion batteries. Journal of Power Sources, 2013, 233, 115-120.	7.8	86
89	Facile low-temperature one-step synthesis of pomelo peel biochar under air atmosphere and its adsorption behaviors for $\text{Ag(I)}$ and $\text{Pb(II)}$ . Science of the Total Environment, 2018, 640-641, 73-79.	8.0	86
90	New Binary Room-Temperature Molten Salt Electrolyte Based on Urea and LiTFSI. Journal of Physical Chemistry B, 2001, 105, 9966-9969.	2.6	85



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91	Establishing Thermal Infusion Method for Stable Zinc Metal Anodes in Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2200782.	21.0	85
92	Hierarchical Mesoporous Lithium-Rich $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$ Cathode Material Synthesized via Ice Templating for Lithium-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18832-18840.	8.0	84
93	Removal of sulfamethoxazole (SMX) and sulfapyridine (SPY) from aqueous solutions by biochars derived from anaerobically digested bagasse. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25659-25667.	5.3	84
94	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.	14.9	84
95	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.	10.3	83
96	Toward Rapid-Charging Sodium-Ion Batteries using Hybrid-Phase Molybdenum Sulfide Selenide-Based Anodes. <i>Advanced Materials</i> , 2020, 32, e2003534.	21.0	82
97	Synergetic Anion Vacancies and Dense Heterointerfaces into Bimetal Chalcogenide Nanosheet Arrays for Boosting Electrocatalysis Sulfur Conversion. <i>Advanced Materials</i> , 2022, 34, e2109552.	21.0	81
98	A hybrid solid electrolyte $\text{Li}_{0.33}\text{La}_{0.557}\text{TiO}_3/\text{poly}(\text{acrylonitrile})$ membrane infiltrated with a succinonitrile-based electrolyte for solid state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 706-713.	10.3	79
99	Engineering Catalytic $\text{CoSe}/\text{ZnSe}$ Heterojunctions Anchored on Graphene Aerogels for Bidirectional Sulfur Conversion Reactions. <i>Advanced Science</i> , 2022, 9, e2103456.	11.2	79
100	Preparation and electrochemical performance of Li-rich layered cathode material, $\text{Li}[\text{Ni}_{0.2}\text{Li}_{0.2}\text{Mn}_{0.6}]\text{O}_2$ , for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 783-789.	2.9	77
101	Progress in electrolyte and interface of hard carbon and graphite anode for sodium-ion battery. , 2022, 4, 458-479.		77
102	In Situ Analysis of Gas Generation in Lithium-Ion Batteries with Different Carbonate-Based Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22751-22755.	8.0	76
103	Kinetics Tuning the Electrochemistry of Lithium Dendrites Formation in Lithium Batteries through Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7003-7008.	8.0	76
104	Polypyrrole-Modified Prussian Blue Cathode Material for Potassium Ion Batteries via In Situ Polymerization Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22339-22345.	8.0	75
105	Butylene sulfite as a film-forming additive to propylene carbonate-based electrolytes for lithium ion batteries. <i>Journal of Power Sources</i> , 2007, 172, 395-403.	7.8	74
106	Cobalt Selenide Hollow Polyhedron Encapsulated in Graphene for High-Performance Lithium/Sodium Storage. <i>Small</i> , 2021, 17, e2102893.	10.0	72
107	Light-weight functional layer on a separator as a polysulfide immobilizer to enhance cycling stability for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17033-17041.	10.3	70
108	Cationic polymer binder inhibit shuttle effects through electrostatic confinement in lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6959-6966.	10.3	68

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109	Stable Carbon-Selenium Bonds for Enhanced Performance in Tremella-Like 2D Chalcogenide Battery Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1800927.	19.5	68
110	Multi-electron Reaction Materials for High-Energy-Density Secondary Batteries: Current Status and Prospective. <i>Electrochemical Energy Reviews</i> , 2021, 4, 35-66.	25.5	68
111	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.	5.1	68
112	An Effectively Activated Hierarchical Nano-Microspherical $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ Cathode for Long-Life and High-Rate Lithium-Ion Batteries. <i>ChemSusChem</i> , 2016, 9, 728-735.	6.8	65
113	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 &amp; Interfaces</i> , 2019, 11, 43252-43260.	8.0	65
114	An interfacial framework for breaking through the Li-ion transport barrier of Li-rich layered cathode materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24292-24298.	10.3	64
115	Gluing Carbon Black and Sulfur at Nanoscale: A Polydopamine-Based Nano-Binder for Double-Shelled Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601591.	19.5	64
116	Chemical Synthesis of $\text{K}_2\text{S}_2$ and $\text{K}_2\text{S}_3$ for Probing Electrochemical Mechanisms in S Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2858-2864.	17.4	64
117	Toward 5 V Li-Ion Batteries: Quantum Chemical Calculation and Electrochemical Characterization of Sulfone-Based High-Voltage Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15098-15107.	8.0	61
118	Quick Activation of Nanoporous Anatase $\text{TiO}_2$ as High-Rate and Durable Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39432-39440.	8.0	61
119	In situ formation of a LiF and Li-Al alloy anode protected layer on a Li metal anode with enhanced cycle life. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1247-1253.	10.3	61
120	Metal Chalcogenides with Heterostructures for High-Performance Rechargeable Batteries. <i>Small Science</i> , 2021, 1, 2100012.	9.9	61
121	A Soft Lithiophilic Graphene Aerogel for Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2002013.	14.9	60
122	How Can the Electrode Influence the Formation of the Solid Electrolyte Interface?. <i>ACS Energy Letters</i> , 2021, 6, 3307-3320.	17.4	60
123	Improving the Structure Stability of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ by Surface Perovskite-like $\text{La}_2\text{Ni}_{0.5}\text{Li}_{0.5}\text{O}_4$ Self-Assembling and Subsurface $\text{La}^{3+}$ Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36751-36762.	8.0	59
124	Leaching Mechanisms of Recycling Valuable Metals from Spent Lithium-Ion Batteries by a Malonic Acid-Based Leaching System. <i>ACS Applied Energy Materials</i> , 2020, 3, 8532-8542.	5.1	59
125	Electrochemical Properties of the $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ Cathode Material Modified by Lithium Tungstate under High Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19704-19711.	8.0	57
126	3D Reticular $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1516-1523.	8.0	56



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127	New Synthesis of a Foamlike Fe <sub>3</sub> O <sub>4</sub> /C Composite via a Self-Expanding Process and Its Electrochemical Performance as Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 19254-19264.	8.0	54
128	Hierarchical mesoporous/macroporous Co <sub>3</sub> O <sub>4</sub> ultrathin nanosheets as free-standing catalysts for rechargeable lithium–oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 17620-17626.	10.3	54
129	Building an Electronic Bridge via Ag Decoration To Enhance Kinetics of Iron Fluoride Cathode in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 19852-19860.	8.0	54
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