Ying Shirley Meng

List of Publications by Year
in descending order

278 papers	34,123 citations	2543 96 h-index	3911 177 g-index
284 all docs	284 docs citations	284 times ranked	24635 citing authors

#	Article	IF	Citations
1	Electrodes with High Power and High Capacity for Rechargeable Lithium Batteries. Science, 2006, 311, 977-980.	6.0	2,369
2	Pathways for practical high-energy long-cycling lithium metal batteries. Nature Energy, 2019, 4, 180-186.	19.8	2,101
3	Quantifying inactive lithium in lithium metal batteries. Nature, 2019, 572, 511-515.	13.7	852
4	Layered SnS₂â€Reduced Graphene Oxide Composite â€“ A Highâ€Capacity, Highâ€Rate, and Longâ€Cycle Life Sodiumâ€Ion Battery Anode Material. Advanced Materials, 2014, 26, 3854-3859.	11.1	744
5	Identifying surface structural changes in layered Li-excess nickel manganese oxides in high voltage lithium ion batteries: A joint experimental and theoretical study. Energy and Environmental Science, 2011, 4, 2223.	15.6	728
6	Interfaces and Interphases in All-Solid-State Batteries with Inorganic Solid Electrolytes. Chemical Reviews, 2020, 120, 6878-6933.	23.0	676
7	Lithium Diffusion in Graphitic Carbon. Journal of Physical Chemistry Letters, 2010, 1, 1176-1180.	2.1	662
8	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. CheM, 2018, 4, 1877-1892.	5.8	628
9	Recent progress in cathode materials research for advanced lithium ion batteries. Materials Science and Engineering Reports, 2012, 73, 51-65.	14.8	595
10	Gasâ€“solid interfacial modification of oxygen activity in layered oxide cathodes for lithium-ion batteries. Nature Communications, 2016, 7, 12108.	5.8	531
11	An advanced cathode for Na-ion batteries with high rate and excellent structural stability. Physical Chemistry Chemical Physics, 2013, 15, 3304.	1.3	501
12	First principles computational materials design for energy storage materials in lithium ion batteries. Energy and Environmental Science, 2009, 2, 589.	15.6	456
13	Narrowing the Gap between Theoretical and Practical Capacities in Liâ€Ion Layered Oxide Cathode Materials. Advanced Energy Materials, 2017, 7, 1602888.	10.2	455
14	Identifying the Critical Role of Li Substitution in P2â€“Na_{<i>x</i>}[Li_{<i>y</i>}Ni_{<i>z</i>}Mn_{1â€“<i>y</i>â€“<i>z</i>}]O₂ (0 < <i>x</i>, <i>y</i>, <i>z</i> < 1) Intercalation Cathode Materials for High-Energy Na-Ion Batteries. Chemistry of Materials, 2014, 26, 1260-1269.	3.2	417
15	Carbon-free high-loading silicon anodes enabled by sulfide solid electrolytes. Science, 2021, 373, 1494-1499.	6.0	393
16	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
17	From nanoscale interface characterization to sustainable energy storage using all-solid-state batteries. Nature Nanotechnology, 2020, 15, 170-180.	15.6	378
18	Chemical composition mapping with nanometre resolution by soft X-ray microscopy. Nature Photonics, 2014, 8, 765-769.	15.6	371

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19	Exploring Oxygen Activity in the High Energy P2-Type Na_{0.78}Ni_{0.23}Mn_{0.69}O₂ Cathode Material for Na-Ion Batteries. Journal of the American Chemical Society, 2017, 139, 4835-4845.	6.6	363
20	The Effect of Fluoroethylene Carbonate as an Additive on the Solid Electrolyte Interphase on Silicon Lithium-Ion Electrodes. Chemistry of Materials, 2015, 27, 5531-5542.	3.2	347
21	A Symmetric RuO2â^•RuO2 Supercapacitor Operating at 1.6 V by Using a Neutral Aqueous Electrolyte. Electrochemical and Solid-State Letters, 2012, 15, A60.	2.2	340
22	Key Issues Hindering a Practical Lithium-Metal Anode. Trends in Chemistry, 2019, 1, 152-158.	4.4	328
23	Stack Pressure Considerations for Roomâ€Temperature Allâ€Solidâ€State Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903253.	10.2	327
24	Bisalt ether electrolytes: a pathway towards lithium metal batteries with Ni-rich cathodes. Energy and Environmental Science, 2019, 12, 780-794.	15.6	310
25	Topological defect dynamics in operando battery nanoparticles. Science, 2015, 348, 1344-1347.	6.0	309
26	New Insights on the Structure of Electrochemically Deposited Lithium Metal and Its Solid Electrolyte Interphases via Cryogenic TEM. Nano Letters, 2017, 17, 7606-7612.	4.5	308
27	Wearable thermoelectrics for personalized thermoregulation. Science Advances, 2019, 5, eaaw0536.	4.7	299
28	Performance and design considerations for lithium excess layered oxide positive electrode materials for lithium ion batteries. Energy and Environmental Science, 2016, 9, 1931-1954.	15.6	295
29	Elucidating Reversible Electrochemical Redox of Li₆PS₅Cl Solid Electrolyte. ACS Energy Letters, 2019, 4, 2418-2427.	8.8	288
30	Cation Ordering in Layered O3 Li[NixLi1/3-2x/3Mn2/3-x/3]O2 (0 â‰ x â‰ 1/2) Compounds. Chemistry of Materials, 2005, 17, 2386-2394.	3.2	283
31	Nucleation of dislocations and their dynamics in layered oxide cathode materials during battery charging. Nature Energy, 2018, 3, 641-647.	19.8	281
32	In Situ STEM-EELS Observation of Nanoscale Interfacial Phenomena in All-Solid-State Batteries. Nano Letters, 2016, 16, 3760-3767.	4.5	278
33	Liquefied gas electrolytes for electrochemical energy storage devices. Science, 2017, 356, .	6.0	271
34	Sodiumâ€Ion Batteries Paving the Way for Grid Energy Storage. Advanced Energy Materials, 2020, 10, 2001274.	10.2	265
35	Reusable Oxidation Catalysis Using Metal-Monocatecholato Species in a Robust Metalâ€"Organic Framework. Journal of the American Chemical Society, 2014, 136, 4965-4973.	6.6	264
36	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. Joule, 2020, 4, 2609-2626.	11.7	260

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37	A carbonate-free, sulfone-based electrolyte for high-voltage Li-ion batteries. Materials Today, 2018, 21, 341-353.	8.3	258
38	Homogenized halides and alkali cation segregation in alloyed organic-inorganic perovskites. Science, 2019, 363, 627-631.	6.0	258
39	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. Chemistry of Materials, 2013, 25, 1621-1629.	3.2	242
40	Role of 4-<i>tert</i>-Butylpyridine as a Hole Transport Layer Morphological Controller in Perovskite Solar Cells. Nano Letters, 2016, 16, 5594-5600.	4.5	241
41	Uncovering the roles of oxygen vacancies in cation migration in lithium excess layered oxides. Physical Chemistry Chemical Physics, 2014, 16, 14665-14668.	1.3	240
42	Moving beyond 99.9% Coulombic efficiency for lithium anodes in liquid electrolytes. Nature Energy, 2021, 6, 951-960.	19.8	237
43	Combined economic and technological evaluation of battery energy storage for grid applications. Nature Energy, 2019, 4, 42-50.	19.8	231
44	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 0, , 1399-1404.	8.8	228
45	First-Principles Investigation of the Liâ˘'Feâ˘'F Phase Diagram and Equilibrium and Nonequilibrium Conversion Reactions of Iron Fluorides with Lithium. Chemistry of Materials, 2008, 20, 5274-5283.	3.2	219
46	Allâ€Printed, Stretchable Znâ€Ag₂O Rechargeable Battery via Hyperelastic Binder for Selfâ€Powering Wearable Electronics. Advanced Energy Materials, 2017, 7, 1602096.	10.2	212
47	Pressure-tailored lithium deposition and dissolution in lithium metal batteries. Nature Energy, 2021, 6, 987-994.	19.8	208
48	Room-Temperature All-solid-state Rechargeable Sodium-ion Batteries with a Cl-doped Na3PS4 Superionic Conductor. Scientific Reports, 2016, 6, 33733.	1.6	205
49	Unveiling the Role of tBPâ€"LiTFSI Complexes in Perovskite Solar Cells. Journal of the American Chemical Society, 2018, 140, 16720-16730.	6.6	193
50	Pressure effects on sulfide electrolytes for all solid-state batteries. Journal of Materials Chemistry A, 2020, 8, 5049-5055.	5.2	191
51	Ambientâ€Pressure Relithiation of Degraded Li<i>_x</i>Ni_{0.5}Co_{0.2}Mn_{0.3}O₂ (0 <) Tj ETQq1 1 0.784314 rgBT /Ov Advanced Energy Materials, 2019, 9, 1900454.	10.2	189
52	Investigating the Energy Storage Mechanism of SnS₂-rGO Composite Anode for Advanced Na-Ion Batteries. Chemistry of Materials, 2015, 27, 5633-5640.	3.2	184
53	High-Efficiency Lithium-Metal Anode Enabled by Liquefied Gas Electrolytes. Joule, 2019, 3, 1986-2000.	11.7	183
54	Phase Stability of Nickel Hydroxides and Oxyhydroxides. Journal of the Electrochemical Society, 2006, 153, A210.	1.3	175

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55	Insights into the Performance Limits of the Li₇P₃S₁₁ Superionic Conductor: A Combined First-Principles and Experimental Study. ACS Applied Materials & Interfaces, 2016, 8, 7843-7853.	4.0	169
56	MIL-101(Fe) as a lithium-ion battery electrode material: a relaxation and intercalation mechanism during lithium insertion. Journal of Materials Chemistry A, 2015, 3, 4738-4744.	5.2	168
57	Spectrum-Dependent Spiro-OMeTAD Oxidization Mechanism in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 24791-24798.	4.0	168
58	Self-standing porous LiMn 2 O 4 nanowall arrays as promising cathodes for advanced 3D microbatteries and flexible lithium-ion batteries. Nano Energy, 2016, 22, 475-482.	8.2	166
59	Phase Transitions and High-Voltage Electrochemical Behavior of LiCoO[sub 2] Thin Films Grown by Pulsed Laser Deposition. Journal of the Electrochemical Society, 2007, 154, A337.	1.3	162
60	Glassy Li metal anode for high-performance rechargeable Li batteries. Nature Materials, 2020, 19, 1339-1345.	13.3	162
61	Ultrathin Al2O3 Coatings for Improved Cycling Performance and Thermal Stability of LiNi0.5Co0.2Mn0.3O2 Cathode Material. Electrochimica Acta, 2016, 203, 154-161.	2.6	155
62	Improvement of the Cathode Electrolyte Interphase on P2-Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 26518-26530.	4.0	154
63	Interface Limited Lithium Transport in Solid-State Batteries. Journal of Physical Chemistry Letters, 2014, 5, 298-303.	2.1	148
64	Elucidating the Phase Transformation of Li₄Ti₅O₁₂ Lithiation at the Nanoscale. ACS Nano, 2016, 10, 4312-4321.	7.3	144
65	A monoclinic polymorph of sodium birnessite for ultrafast and ultrastable sodium ion storage. Nature Communications, 2018, 9, 5100.	5.8	142
66	Revisiting the origin of cycling enhanced capacity of Fe3O4 based nanostructured electrode for lithium ion batteries. Nano Energy, 2017, 41, 426-433.	8.2	136
67	Unveiling the Stable Nature of the Solid Electrolyte Interphase between Lithium Metal and LiPON via Cryogenic Electron Microscopy. Joule, 2020, 4, 2484-2500.	11.7	136
68	A review on the stability and surface modification of layered transition-metal oxide cathodes. Materials Today, 2021, 46, 155-182.	8.3	132
69	Understanding Na₂Ti₃O₇ as an ultra-low voltage anode material for a Na-ion battery. Chemical Communications, 2014, 50, 12564-12567.	2.2	130
70	Durable high-rate capability Na0.44MnO2 cathode material for sodium-ion batteries. Nano Energy, 2016, 27, 602-610.	8.2	126
71	Recent Advances in First Principles Computational Research of Cathode Materials for Lithium-Ion Batteries. Accounts of Chemical Research, 2013, 46, 1171-1180.	7.6	125
72	Divalent-doped Na3Zr2Si2PO12 natrium superionic conductor: Improving the ionic conductivity via simultaneously optimizing the phase and chemistry of the primary and secondary phases. Journal of Power Sources, 2017, 347, 229-237.	4.0	122

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73	Revealing Nanoscale Solidâ€"Solid Interfacial Phenomena for Long-Life and High-Energy All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2019, 11, 43138-43145.	4.0	122
74	Perspectiveâ€"Fluorinating Interphases. Journal of the Electrochemical Society, 2019, 166, A5184-A5186.	1.3	122
75	Understanding the Crystal Structure of Layered LiNi[sub 0.5]Mn[sub 0.5]O[sub 2] by Electron Diffraction and Powder Diffraction Simulation. Electrochemical and Solid-State Letters, 2004, 7, A155.	2.2	121
76	A review on mechanistic understanding of MnO₂in aqueous electrolyte for electrical energy storage systems. International Materials Reviews, 2020, 65, 356-387.	9.4	121
77	Structural and electrochemical properties of Gd-doped Li4Ti5O12 as anode material with improved rate capability for lithium-ion batteries. Journal of Power Sources, 2015, 280, 355-362.	4.0	120
78	Liquefied gas electrolytes for wide-temperature lithium metal batteries. Energy and Environmental Science, 2020, 13, 2209-2219.	15.6	120
79	Three-dimensional nanoscale characterisation of materials by atom probe tomography. International Materials Reviews, 2018, 63, 68-101.	9.4	119
80	Role of Polyacrylic Acid (PAA) Binder on the Solid Electrolyte Interphase in Silicon Anodes. Chemistry of Materials, 2019, 31, 2535-2544.	3.2	119
81	Cryogenic Electron Microscopy for Characterizing and Diagnosing Batteries. Joule, 2018, 2, 2225-2234.	11.7	118
82	Electrochemical Properties of Nonstoichiometric LiNi[sub 0.5]Mn[sub 1.5]O[sub 4â^'Î] Thin-Film Electrodes Prepared by Pulsed Laser Deposition. Journal of the Electrochemical Society, 2007, 154, A737.	1.3	117
83	Electrochemical properties of tin oxide anodes for sodium-ion batteries. Journal of Power Sources, 2015, 284, 287-295.	4.0	117
84	Exploiting Mechanistic Solvation Kinetics for Dualâ€Graphite Batteries with High Power Output at Extremely Low Temperature. Angewandte Chemie - International Edition, 2019, 58, 18892-18897.	7.2	117
85	Effect of Multiple Cation Electrolyte Mixtures on Rechargeable Znâ€"MnO₂ Alkaline Battery. Chemistry of Materials, 2016, 28, 4536-4545.	3.2	116
86	Lithium Lanthanum Titanium Oxides: A Fast Ionic Conductive Coating for Lithium-Ion Battery Cathodes. Chemistry of Materials, 2012, 24, 2744-2751.	3.2	115
87	A stable cathode-solid electrolyte composite for high-voltage, long-cycle-life solid-state sodium-ion batteries. Nature Communications, 2021, 12, 1256.	5.8	110
88	Frontiers of<i>in situ</i>electron microscopy. MRS Bulletin, 2015, 40, 12-18.	1.7	109
89	Effect of Surface Modification on Nano-Structured LiNi_{0.5}Mn_{1.5}O₄ Spinel Materials. ACS Applied Materials & Interfaces, 2015, 7, 16231-16239.	4.0	108
90	Probing the electrode/electrolyte interface in the lithium excess layered oxide Li1.2Ni0.2Mn0.6O2. Physical Chemistry Chemical Physics, 2013, 15, 11128.	1.3	107

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91	Cryogenic Focused Ion Beam Characterization of Lithium Metal Anodes. ACS Energy Letters, 2019, 4, 489-493.	8.8	106
92	Direct evidence for high Na⁺mobility and high voltage structural processes in P2-Na_x[Li_yNi_zMn_{1â^'yâ^'z}]O₂(x, y, z â‰ 1) cathodes from solid-state NMR and DFT calculations. Journal of Materials Chemistry A, 2017, 5, 4129-4143.	5.2	105
93	Self-branched Î±-MnO₂/Î´-MnO₂ heterojunction nanowires with enhanced pseudocapacitance. Materials Horizons, 2017, 4, 415-422.	6.4	105
94	Understanding the Electrochemical Mechanisms Induced by Gradient Mg²⁺ Distribution of Na-Rich Na_{3+<i>x</i>}V_{2â€"<i>x</i>}Mg_{<i>x</i>}(PO₄)₃/C for Sodium Ion Batteries. Chemistry of Materials, 2018, 30, 2498-2505.	3.2	102
95	Local structure adaptability through multi cations for oxygen redox accommodation in Li-Rich layered oxides. Energy Storage Materials, 2020, 24, 384-393.	9.5	101
96	Electrochemical and thermal properties of P2-type Na2/3Fe1/3Mn2/3O2 for Na-ion batteries. Journal of Power Sources, 2014, 264, 235-239.	4.0	100
97	Dependence on Crystal Size of the Nanoscale Chemical Phase Distribution and Fracture in Li_{<i>x</i>}FePO₄. Nano Letters, 2015, 15, 4282-4288.	4.5	99
98	Operando Lithium Dynamics in the Liâ€Rich Layered Oxide Cathode Material via Neutron Diffraction. Advanced Energy Materials, 2016, 6, 1502143.	10.2	98
99	Understanding and Controlling Anionic Electrochemical Activity in High-Capacity Oxides for Next Generation Li-Ion Batteries. Chemistry of Materials, 2017, 29, 908-915.	3.2	97
100	Enabling Thin and Flexible Solid-State Composite Electrolytes by the Scalable Solution Process. ACS Applied Energy Materials, 2019, 2, 6542-6550.	2.5	96
101	Single Particle Nanomechanics in Operando Batteries via Lensless Strain Mapping. Nano Letters, 2014, 14, 5123-5127.	4.5	94
102	Pushing the limit of 3d transition metal-based layered oxides that use both cation and anion redox for energy storage. Nature Reviews Materials, 2022, 7, 522-540.	23.3	92
103	Synthesisâ€"Structureâ€"Property Relations in Layered, â€œLi-excessâ€•Oxides Electrode Materials Li[Li[sub 1/3â^'2x/3]Ni[sub x]Mn[sub 2/3â^'x/3]]O[sub 2] (x=1/3, 1/4, and 1/5). Journal of the Electrochemical Society, 2010, 157, A1202.	1.3	88
104	Understanding the Role of NH₄F and Al₂O₃ Surface Co-modification on Lithium-Excess Layered Oxide Li_{1.2}Ni_{0.2}Mn_{0.6}O₂. ACS Applied Materials & Interfaces, 2015, 7, 19189-19200.	4.0	87
105	Nanoconfined Iron Oxychloride Material as a High-Performance Cathode for Rechargeable Chloride Ion Batteries. ACS Energy Letters, 2017, 2, 2341-2348.	8.8	87
106	New Insights into the Interphase between the Na Metal Anode and Sulfide Solid-State Electrolytes: A Joint Experimental and Computational Study. ACS Applied Materials & Interfaces, 2018, 10, 10076-10086.	4.0	86
107	Urea-based hydrothermal synthesis of LiNi0.5Co0.2Mn0.3O2 cathode material for Li-ion battery. Journal of Power Sources, 2018, 394, 114-121.	4.0	86
108	Improved electrochemical performance of tin-sulfide anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16971-16977.	5.2	83

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109	Effects of cathode electrolyte interfacial (CEI) layer on long term cycling of all-solid-state thin-film batteries. Journal of Power Sources, 2016, 324, 342-348.	4.0	82
110	RECENT ADVANCES IN SODIUM INTERCALATION POSITIVE ELECTRODE MATERIALS FOR SODIUM ION BATTERIES. Functional Materials Letters, 2013, 06, 1330001.	0.7	79
111	In-situ neutron diffraction study of the xLi2MnO3Â·(1Ââˆ'Âx)LiMO2 (xÂ=Â0,Â0.5; MÂ=ÂNi, Mn, Co) layered oxide compounds during electrochemical cycling. Journal of Power Sources, 2013, 240, 772-778.	4.0	79
112	High Performance Printed AgO-Zn Rechargeable Battery for Flexible Electronics. Joule, 2021, 5, 228-248.	11.7	78
113	TiO2 flakes as anode materials for Li-ion-batteries. Journal of Power Sources, 2012, 207, 166-172.	4.0	77
114	Identifying the Distribution of Al³⁺ in LiNi_{0.8}Co_{0.15}Al_{0.05}O₂. Chemistry of Materials, 2016, 28, 8170-8180.	3.2	77
115	Effect of Morphology and Manganese Valence on the Voltage Fade and Capacity Retention of Li[Li_{2/12}Ni_{3/12}Mn_{7/12}]O₂. ACS Applied Materials & Interfaces, 2014, 6, 18868-18877.	4.0	76
116	Advanced analytical electron microscopy for lithium-ion batteries. NPG Asia Materials, 2015, 7, e193-e193.	3.8	76
117	Role of Crystal Symmetry in the Reversibility of Stacking-Sequence Changes in Layered Intercalation Electrodes. Nano Letters, 2017, 17, 7789-7795.	4.5	76
118	Electrochemical performance and interfacial investigation on Si composite anode for lithium ion batteries in full cell. Journal of Power Sources, 2017, 359, 173-181.	4.0	69
119	Nonequilibrium Structural Dynamics of Nanoparticles in LiNi_{1/2}Mn_{3/2}O₄ Cathode under Operando Conditions. Nano Letters, 2014, 14, 5295-5300.	4.5	67
120	Bridging nano- and microscale X-ray tomography for battery research by leveraging artificial intelligence. Nature Nanotechnology, 2022, 17, 446-459.	15.6	66
121	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu₂Sb Anodes. Journal of Physical Chemistry C, 2014, 118, 7856-7864.	1.5	64
122	Effects of laser energy and wavelength on the analysis of LiFePO4 using laser assisted atom probe tomography. Ultramicroscopy, 2015, 148, 57-66.	0.8	64
123	KN95 and N95 Respirators Retain Filtration Efficiency despite a Loss of Dipole Charge during Decontamination. ACS Applied Materials & Interfaces, 2020, 12, 54473-54480.	4.0	63
124	Enabling the Low-Temperature Cycling of NMC||Graphite Pouch Cells with an Ester-Based Electrolyte. ACS Energy Letters, 2021, 6, 2016-2023.	8.8	63
125	In situ X-ray diffraction study of the lithium excess layered oxide compound Li[Li0.2Ni0.2Mn0.6]O2 during electrochemical cycling. Solid State Ionics, 2012, 207, 44-49.	1.3	62
126	Denseâ€Stacking Porous Conjugated Polymer as Reactiveâ€Type Host for Highâ€Performance Lithium Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 11359-11369.	7.2	62

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127	Interphase control for high performance lithium metal batteries using ether aided ionic liquid electrolyte. Energy and Environmental Science, 2022, 15, 1907-1919.	15.6	62
128	Enhancing the electrochemical performance of Li-rich layered oxide Li1.13Ni0.3Mn0.57O2 via WO3 doping and accompanying spontaneous surface phase formation. Journal of Power Sources, 2018, 375, 21-28.	4.0	61
129	Role of electrolyte in stabilizing hard carbon as an anode for rechargeable sodium-ion batteries with long cycle life. Energy Storage Materials, 2021, 42, 78-87.	9.5	61
130	Revisiting Discharge Mechanism of CF_x as a High Energy Density Cathode Material for Lithium Primary Battery. Advanced Energy Materials, 2022, 12, .	10.2	61
131	Achieving high efficiency and cyclability in inexpensive soluble lead flow batteries. Energy and Environmental Science, 2013, 6, 1573.	15.6	60
132	Structural insights into composition design of Li-rich layered cathode materials for high-energy rechargeable battery. Materials Today, 2021, 51, 15-26.	8.3	60
133	Fire-extinguishing, recyclable liquefied gas electrolytes for temperature-resilient lithium-metal batteries. Nature Energy, 2022, 7, 548-559.	19.8	60
134	Direct Visualization of the Solid Electrolyte Interphase and Its Effects on Silicon Electrochemical Performance. Advanced Materials Interfaces, 2016, 3, 1600438.	1.9	59
135	Nanosheet-assembled hierarchical Li4Ti5O12 microspheres for high-volumetric-density and high-rate Li-ion battery anode. Energy Storage Materials, 2019, 21, 361-371.	9.5	57
136	Intercalation and Conversion Reactions of Nanosized Î²-MnO₂ Cathode in the Secondary Zn/MnO₂ Alkaline Battery. Journal of Physical Chemistry C, 2018, 122, 11177-11185.	1.5	56
137	Revisiting the conversion reaction voltage and the reversibility of the CuF2 electrode in Li-ion batteries. Nano Research, 2017, 10, 4232-4244.	5.8	55
138	Enabling high areal capacity for Co-free high voltage spinel materials in next-generation Li-ion batteries. Journal of Power Sources, 2020, 473, 228579.	4.0	55
139	Role of LiCoO₂ Surface Terminations in Oxygen Reduction and Evolution Kinetics. Journal of Physical Chemistry Letters, 2015, 6, 1357-1362.	2.1	54
140	Single-step synthesis of highly conductive Na3PS4 solid electrolyte for sodium all solid-state batteries. Journal of Power Sources, 2019, 435, 126623.	4.0	54
141	High rate delithiation behaviour of LiFePO4 studied by quick X-ray absorption spectroscopy. Chemical Communications, 2012, 48, 11537.	2.2	53
142	All-Sputtered, Superior Power Density Thin-Film Solid Oxide Fuel Cells with a Novel Nanofibrous Ceramic Cathode. Nano Letters, 2020, 20, 2943-2949.	4.5	53
143	Fabrication of High-Quality Thin Solid-State Electrolyte Films Assisted by Machine Learning. ACS Energy Letters, 0, , 1639-1648.	8.8	53
144	Conversion mechanism of nickel fluoride and NiO-doped nickel fluoride in Li ion batteries. Electrochimica Acta, 2012, 59, 213-221.	2.6	48

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145	Identifying the chemical and structural irreversibility in LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ â€“ a model compound for classical layered intercalation. Journal of Materials Chemistry A, 2018, 6, 4189-4198.	5.2	48
146	Effective Upcycling of Graphite Anode: Healing and Doping Enabled Direct Regeneration. Journal of the Electrochemical Society, 2020, 167, 160511.	1.3	48
147	Deposition of ZnO on bismuth species towards a rechargeable Zn-based aqueous battery. Physical Chemistry Chemical Physics, 2016, 18, 26376-26382.	1.3	46
148	<i>In situ</i> formed polymer gel electrolytes for lithium batteries with inherent thermal shutdown safety features. Journal of Materials Chemistry A, 2019, 7, 16984-16991.	5.2	46
149	Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. Journal of Materials Chemistry, 2011, 21, 15521.	6.7	45
150	Synthesis of LiNi Fe1â^'PO4 solid solution as cathode materials for lithium ion batteries. Electrochimica Acta, 2013, 108, 827-832.	2.6	45
151	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO₂ nanotubes as anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 20651-20657.	5.2	45
152	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. Chemistry of Materials, 2020, 32, 1002-1010.	3.2	44
153	Ab initiostudy of sodium ordering inNa0.75CoO2and its relation toCo3+â^•Co4+charge ordering. Physical Review B, 2005, 72, .	1.1	43
154	Reciprocal Salt Flux Growth of LiFePO₄ Single Crystals with Controlled Defect Concentrations. Chemistry of Materials, 2013, 25, 4574-4584.	3.2	43
155	Experimental and Computational Evaluation of a Sodium-Rich Anti-Perovskite for Solid State Electrolytes. Journal of the Electrochemical Society, 2016, 163, A2165-A2171.	1.3	43
156	Nonequilibrium Pathways during Electrochemical Phase Transformations in Single Crystals Revealed by Dynamic Chemical Imaging at Nanoscale Resolution. Advanced Energy Materials, 2015, 5, 1402040.	10.2	42
157	Tuning Internal Strain in Metalâ€"Organic Frameworks via Vapor Phase Infiltration for CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 4572-4580.	7.2	42
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