Ying Shirley Meng

List of Publications by Year
in descending order

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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	Elucidating the Effect of Borate Additive in Highâ€Voltage Electrolyte for Liâ€Rich Layered Oxide Materials. Advanced Energy Materials, 2022, 12, .	10.2	38
2	Leveraging cryogenic electron microscopy for advancing battery design. Matter, 2022, 5, 26-42.	5.0	20
3	Disorder Dynamics in Battery Nanoparticles During Phase Transitions Revealed by Operando Singleâ€Particle Diffraction. Advanced Energy Materials, 2022, 12, .	10.2	5
4	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
5	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
6	Investigating dry room compatibility of sulfide solid-state electrolytes for scalable manufacturing. Journal of Materials Chemistry A, 2022, 10, 7155-7164.	5.2	41
7	Transport and mechanical aspects of all-solid-state lithium batteries. Materials Today Physics, 2022, 24, 100679.	2.9	16
8	Artificial cathode electrolyte interphase for improving high voltage cycling stability of thick electrode with Co-free 5 V spinel oxides. Energy Storage Materials, 2022, 49, 77-84.	9.5	22
9	Quantification of lithium inventory loss in micro silicon anode via titration-gas chromatography. Journal of Power Sources, 2022, 531, 231327.	4.0	10
10	Structure-Selective Operando X-ray Spectroscopy. ACS Energy Letters, 2022, 7, 261-266.	8.8	1
11	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
12	Bridging nano- and microscale X-ray tomography for battery research by leveraging artificial intelligence. Nature Nanotechnology, 2022, 17, 446-459.	15.6	66
13	Perspective: Design of cathode materials for sustainable sodium-ion batteries. MRS Energy & Sustainability, 2022, 9, 183-197.	1.3	22
14	Fire-extinguishing, recyclable liquefied gas electrolytes for temperature-resilient lithium-metal batteries. Nature Energy, 2022, 7, 548-559.	19.8	60
15	Unraveling the Stable Cathode Electrolyte Interface in all Solidâ€State Thinâ€Film Battery Operating at 5ÂV. Advanced Energy Materials, 2022, 12, .	10.2	15
16	Solid State Batteries â€“ Chemistry, Electrochemistry and Mechanical Concerns. ECS Meeting Abstracts, 2022, MA2022-01, 1628-1628.	0.0	0
17	(Invited) Quantitatively Designing Porous Copper Current Collectors for Lithium Metal Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 1172-1172.	0.0	0
18	Enabling a Co-Free, High-Voltage LiNi_{0.5}Mn_{1.5}O₄ Cathode in All-Solid-State Batteries with a Halide Electrolyte. ACS Energy Letters, 2022, 7, 2531-2539.	8.8	33

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19	Fast Diagnosis of Failure Mechanisms and Lifetime Prediction of Li Metal Batteries. Small Methods, 2021, 5, e2000807.	4.6	17
20	Advanced Characterization Techniques for Overcoming Challenges of Perovskite Solar Cell Materials. Advanced Energy Materials, 2021, 11, 2001753.	10.2	29
21	Regeneration of degraded Li-rich layered oxide materials through heat treatment-induced transition metal reordering. Energy Storage Materials, 2021, 35, 99-107.	9.5	27
22	High Pressure Effect on Structural and Electrochemical Properties of Anionic Redox-Based Lithium Transition Metal Oxides. Matter, 2021, 4, 164-181.	5.0	15
23	Could Irradiation Introduce Oxidized Oxygen Signals in Resonant Inelastic X-ray Scattering of Battery Electrodes?. Journal of Physical Chemistry Letters, 2021, 12, 1138-1143.	2.1	7
24	High Performance Printed AgO-Zn Rechargeable Battery for Flexible Electronics. Joule, 2021, 5, 228-248.	11.7	78
25	New insights into Li distribution in the superionic argyrodite Li₆PS₅Cl. Chemical Communications, 2021, 57, 10787-10790.	2.2	11
26	Experimental considerations to study Li-excess disordered rock salt cathode materials. Journal of Materials Chemistry A, 2021, 9, 1720-1732.	5.2	19
27	Electrochemical Utilization of Iron IV in the Li_{1.3}Fe_{0.4}Nb_{0.3}O₂ Disordered Rocksalt Cathode. Batteries and Supercaps, 2021, 4, 771-777.	2.4	6
28	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
29	Whither Mn Oxidation in Mn-Rich Alkali-Excess Cathodes?. ACS Energy Letters, 2021, 6, 1055-1064.	8.8	20
30	Edge-Propagation Discharge Mechanism in CF_x Batteriesâ€"A First-Principles and Experimental Study. Chemistry of Materials, 2021, 33, 1760-1770.	3.2	34
31	Self-Healing and Anti-CO₂ Hydrogels for Flexible Solid-State Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 12033-12041.	4.0	39
32	Nanostructure Transformation as a Signature of Oxygen Redox in Li-Rich 3d and 4d Cathodes. Journal of the American Chemical Society, 2021, 143, 5763-5770.	6.6	29
33	The Negative Impact of Transition Metal Migration on Oxygen Redox Activity of Layered Cathode Materials for Na-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 040539.	1.3	16
34	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
35	A Safer, Wide-Temperature Liquefied Gas Electrolyte Based on Difluoromethane. Journal of Power Sources, 2021, 493, 229668.	4.0	18
36	A closed-host bi-layer dense/porous solid electrolyte interphase for enhanced lithium-metal anode stability. Materials Today, 2021, 49, 48-58.	8.3	22

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37	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
38	A review on the stability and surface modification of layered transition-metal oxide cathodes. Materials Today, 2021, 46, 155-182.	8.3	132
39	Sub-nanometer confinement enables facile condensation of gas electrolyte for low-temperature batteries. Nature Communications, 2021, 12, 3395.	5.8	42
40	Quantitatively Designing Porous Copper Current Collectors for Lithium Metal Anodes. ACS Applied Energy Materials, 2021, 4, 6454-6465.	2.5	17
41	Cryogenic imaging and spectroscopic study of electrochemically formed solid interphases - from nano to meso scale.. Microscopy and Microanalysis, 2021, 27, 1246-1246.	0.2	0
42	Unveiling the Stable Nature of LiPON-associated Electrode/Electrolyte Interphases via Cryogenic Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 3324-3327.	0.2	1
43	Investigating Degradation Modes in Znâ€AgO Aqueous Batteries with In Situ Xâ€Ray Micro Computed Tomography. Advanced Energy Materials, 2021, 11, 2101327.	10.2	20
44	Sputtered Thin-Film Solid Oxide Fuel Cells. ECS Transactions, 2021, 103, 67-71.	0.3	3
45	Carbon-free high-loading silicon anodes enabled by sulfide solid electrolytes. Science, 2021, 373, 1494-1499.	6.0	393
46	Quantifying lithium loss in amorphous silicon thin-film anodes via titration-gas chromatography. Cell Reports Physical Science, 2021, 2, 100597.	2.8	14
47	Imaging Real-Time Amorphization of Hybrid Perovskite Solar Cells under Electrical Biasing. ACS Energy Letters, 2021, 6, 3530-3537.	8.8	12
48	Public trust in science: Climate, energy and public health. MRS Energy & Sustainability, 2021, 8, 41.	1.3	2
49	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
50	Pressure-tailored lithium deposition and dissolution in lithium metal batteries. Nature Energy, 2021, 6, 987-994.	19.8	208
51	Moving beyond 99.9% Coulombic efficiency for lithium anodes in liquid electrolytes. Nature Energy, 2021, 6, 951-960.	19.8	237
52	Conformal three-dimensional interphase of Li metal anode revealed by low-dose cryoelectron microscopy. Matter, 2021, 4, 3741-3752.	5.0	37
53	Structure and Dynamics in Mg²⁺-Stabilized Î³-Na₃PO₄. Journal of the American Chemical Society, 2021, 143, 17079-17089.	6.6	4
54	Insights into the Fast Sodium Conductor NASICON and the Effects of Mg²⁺ Doping on Na⁺ Conductivity. Chemistry of Materials, 2021, 33, 8768-8774.	3.2	5

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55	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
56	A review on mechanistic understanding of MnO₂in aqueous electrolyte for electrical energy storage systems. International Materials Reviews, 2020, 65, 356-387.	9.4	121
57	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
58	Tuning Internal Strain in Metalâ€“Organic Frameworks via Vapor Phase Infiltration for CO 2 Reduction. Angewandte Chemie, 2020, 132, 4602-4610.	1.6	16
59	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
60	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
61	Stack Pressure Considerations for Roomâ€Temperature Allâ€Solidâ€State Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903253.	10.2	327
62	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
63	Introduction: Beyond Li-Ion Battery Chemistry. Chemical Reviews, 2020, 120, 6327-6327.	23.0	17
64	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. Joule, 2020, 4, 2609-2626.	11.7	260
65	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
66	Quantitative Specifications to Avoid Degradation during E-Beam and Induced Current Microscopy of Halide Perovskite Devices. Journal of Physical Chemistry C, 2020, 124, 18961-18967.	1.5	4
67	Glassy Li metal anode for high-performance rechargeable Li batteries. Nature Materials, 2020, 19, 1339-1345.	13.3	162
68	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
69	Local Structure of Glassy Lithium Phosphorus Oxynitride Thin Films: A Combined Experimental and Abâ€...Initio Approach. Angewandte Chemie, 2020, 132, 22369-22377.	1.6	3
70	Nano-Ceramic Cathodes via Co-sputtering of Gdâ€“Ce Alloy and Lanthanum Strontium Cobaltite for Low-Temperature Thin-Film Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2020, 3, 8135-8142.	2.5	27
71	Local Structure of Glassy Lithium Phosphorus Oxynitride Thin Films: A Combined Experimental and Abâ€...Initio Approach. Angewandte Chemie - International Edition, 2020, 59, 22185-22193.	7.2	21
72	Sustainable design of fully recyclable all solid-state batteries. MRS Energy & Sustainability, 2020, 7, 1.	1.3	32

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73	Liquefied gas electrolytes for wide-temperature lithium metal batteries. Energy and Environmental Science, 2020, 13, 2209-2219.	15.6	120
74	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
75	From nanoscale interface characterization to sustainable energy storage using all-solid-state batteries. Nature Nanotechnology, 2020, 15, 170-180.	15.6	378
76	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. Cell Reports Physical Science, 2020, 1, 100028.	2.8	37
77	Interfaces and Interphases in All-Solid-State Batteries with Inorganic Solid Electrolytes. Chemical Reviews, 2020, 120, 6878-6933.	23.0	676
78	Impacts of the Hole Transport Layer Deposition Process on Buried Interfaces in Perovskite Solar Cells. Cell Reports Physical Science, 2020, 1, 100103.	2.8	17
79	Sodiumâ€ion Batteries Paving the Way for Grid Energy Storage. Advanced Energy Materials, 2020, 10, 2001274.	10.2	265
80	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathodeâ€“Electrolyte Interface when Addressing Oxygen Redox. Journal of Physical Chemistry Letters, 2020, 11, 2106-2112.	2.1	36
81	Virtual Texture Generated Using Elastomeric Conductive Block Copolymer in a Wireless Multimodal Haptic Glove. Advanced Intelligent Systems, 2020, 2, 2000018.	3.3	29
82	Thin Solid Electrolyte Layers Enabled by Nanoscopic Polymer Binding. ACS Energy Letters, 2020, 5, 955-961.	8.8	36
83	Pressure effects on sulfide electrolytes for all solid-state batteries. Journal of Materials Chemistry A, 2020, 8, 5049-5055.	5.2	191
84	A Facile, Dry-Processed Lithium Borate-Based Cathode Coating for Improved All-Solid-State Battery Performance. Journal of the Electrochemical Society, 2020, 167, 130516.	1.3	26
85	Effective Upcycling of Graphite Anode: Healing and Doping Enabled Direct Regeneration. Journal of the Electrochemical Society, 2020, 167, 160511.	1.3	48
86	Elucidating the Redox Mechanism of Battery Cathode Materials Made from Earth-Abundant Elements. ECS Meeting Abstracts, 2020, MA2020-01, 242-242.	0.0	0
87	(Invited) All Solid-State Batteries: Synthesis, Interfacial Engineering and Recycling. ECS Meeting Abstracts, 2020, MA2020-01, 286-286.	0.0	0
88	(Invited) Local Structure of Glassy Lithium Phosphorus Oxynitride (LION) Thin Films and Their Interphases with Lithium Metal Anode. ECS Meeting Abstracts, 2020, MA2020-02, 677-677.	0.0	0
89	Three-Dimensional Imaging and Interface Analysis of Battery Materials Via Plasma FIB-SEM. ECS Meeting Abstracts, 2020, MA2020-02, 150-150.	0.0	0
90	(Invited) Recent Progress on Solid State Batteries - Challenges and Opportunities. ECS Meeting Abstracts, 2020, MA2020-02, 1020-1020.	0.0	0

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91	Comprehensive study of a versatile polyol synthesis approach for cathode materials for Li-ion batteries. Nano Research, 2019, 12, 2238-2249.	5.8	13
92	In Situ Analytical Electron Microscopy and Cryogenic Electron Microscopy for Characterizing Nanoscale Materials in Electrochemical Process. Microscopy and Microanalysis, 2019, 25, 1856-1857.	0.2	0
93	Enabling Thin and Flexible Solid-State Composite Electrolytes by the Scalable Solution Process. ACS Applied Energy Materials, 2019, 2, 6542-6550.	2.5	96
94	Elucidating Reversible Electrochemical Redox of Li₆PS₅Cl Solid Electrolyte. ACS Energy Letters, 2019, 4, 2418-2427.	8.8	288
95	Meso-Structure Controlled Synthesis of Sodium Iron-Manganese Oxides Cathode for Low-Cost Na-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A2528-A2535.	1.3	12
96	High-Efficiency Lithium-Metal Anode Enabled by Liquefied Gas Electrolytes. Joule, 2019, 3, 1986-2000.	11.7	183
97	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
98	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
99	Exploiting Mechanistic Solvation Kinetics for Dualâ€Graphite Batteries with High Power Output at Extremely Low Temperature. Angewandte Chemie, 2019, 131, 19068-19073.	1.6	26
100	Energy Spotlight. ACS Energy Letters, 2019, 4, 2763-2769.	8.8	1
101	Quantifying inactive lithium in lithium metal batteries. Nature, 2019, 572, 511-515.	13.7	852
102	Development of a Versatile, High-Performance Solid Oxide Fuel Cell Stack Technology. ECS Transactions, 2019, 91, 133-138.	0.3	0
103	Cryogenic Focused Ion Beam Characterization of Lithium Metal Anodes. ACS Energy Letters, 2019, 4, 489-493.	8.8	106
104	Bisalt ether electrolytes: a pathway towards lithium metal batteries with Ni-rich cathodes. Energy and Environmental Science, 2019, 12, 780-794.	15.6	310
105	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
106	In situ 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
107	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
108	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO₂. Journal of Physical Chemistry C, 2019, 123, 13201-13207.	1.5	33

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109	Wearable thermoelectrics for personalized thermoregulation. Science Advances, 2019, 5, eaaw0536.	4.7	299
110	Key Issues Hindering a Practical Lithium-Metal Anode. Trends in Chemistry, 2019, 1, 152-158.	4.4	328
111	Role of Polyacrylic Acid (PAA) Binder on the Solid Electrolyte Interphase in Silicon Anodes. Chemistry of Materials, 2019, 31, 2535-2544.	3.2	119
112	Ambientâ€Pressure Relithiation of Degraded Li_xNi_{0.5}Co_{0.2}Mn_{0.3}O₂ (0 <) Tj ETQq0 0 0 rgBT /Overlock 10 Advanced Energy Materials, 2019, 9, 1900454.	10.2	189
113	Homogenized halides and alkali cation segregation in alloyed organic-inorganic perovskites. Science, 2019, 363, 627-631.	6.0	258
114	Pathways for practical high-energy long-cycling lithium metal batteries. Nature Energy, 2019, 4, 180-186.	19.8	2,101
115	Effect of Metal Electrodes on Aging-Induced Performance Recovery in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 48497-48504.	4.0	26
116	Perspectiveâ€"Fluorinating Interphases. Journal of the Electrochemical Society, 2019, 166, A5184-A5186.	1.3	122
117	Combined economic and technological evaluation of battery energy storage for grid applications. Nature Energy, 2019, 4, 42-50.	19.8	231
118	(Invited) Mitigating Oxygen Release in Anionic-Redox-Active Cathode Materials By Cationic Substitution through Rational Design. ECS Meeting Abstracts, 2019, , .	0.0	0
119	(Invited) Room Temperature All Solid State Sodium Batteries Based on Glassy Electrolytes. ECS Meeting Abstracts, 2019, , .	0.0	0
120	(Invited) From Liquified Gas Electrolytes to Solid State Electrolytes - Fast Ion Conduction at Extreme Temperatures. ECS Meeting Abstracts, 2019, , .	0.0	0
121	A carbonate-free, sulfone-based electrolyte for high-voltage Li-ion batteries. Materials Today, 2018, 21, 341-353.	8.3	258
122	Understanding the Electrochemical Mechanisms Induced by Gradient Mg²⁺ Distribution of Na-Rich Na_{3+x}V_{2â€“x}Mg_x(PO₄)₃/C for Sodium Ion Batteries. Chemistry of Materials, 2018, 30, 2498-2505.	3.2	102
123	Ionotactile Stimulation: Nonvolatile Ionic Gels for Humanâ€"Machine Interfaces. ACS Omega, 2018, 3, 662-666.	1.6	24
124	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
125	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
126	Structure and Solution Dynamics of Lithium Methyl Carbonate as a Protective Layer For Lithium Metal. ACS Applied Energy Materials, 2018, 1, 1864-1869.	2.5	41

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127	Correction to Insights into the Performance Limits of the Li7P3S11 Superionic Conductor: A Combined First-Principles and Experimental Study. ACS Applied Materials & Interfaces, 2018, 10, 10598-10598.	4.0	3
128	Focused Ion Beam Fabrication of LiPON-based Solid-state Lithium-ion Nanobatteries for In Situ Testing. Journal of Visualized Experiments, 2018, , .	0.2	6
129	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
130	Effects of electrode pattern on thermal runaway of lithium-ion battery. International Journal of Damage Mechanics, 2018, 27, 74-81.	2.4	4
131	Three-dimensional nanoscale characterisation of materials by atom probe tomography. International Materials Reviews, 2018, 63, 68-101.	9.4	119
132	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
133	Mitigating oxygen release in anionic-redox-active cathode materials by cationic substitution through rational design. Journal of Materials Chemistry A, 2018, 6, 24651-24659.	5.2	18
134	Unveiling the Role of tBPâ€“LiTFSI Complexes in Perovskite Solar Cells. Journal of the American Chemical Society, 2018, 140, 16720-16730.	6.6	193
135	A monoclinic polymorph of sodium birnessite for ultrafast and ultrastable sodium ion storage. Nature Communications, 2018, 9, 5100.	5.8	142
136	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. Review of Scientific Instruments, 2018, 89, 093002.	0.6	18
137	Hybrid Li-Ion and Li-O2 Battery Enabled by Oxyhalogen-Sulfur Electrochemistry. Joule, 2018, 2, 2381-2392.	11.7	14
138	In situ and operando probing of solidâ€“solid interfaces in electrochemical devices. MRS Bulletin, 2018, 43, 768-774.	1.7	17
139	Cryogenic Electron Microscopy for Characterizing and Diagnosing Batteries. Joule, 2018, 2, 2225-2234.	11.7	118
140	Batteries: Predicting Calendar Aging in Lithium Metal Secondary Batteries: The Impacts of Solid Electrolyte Interphase Composition and Stability (Adv. Energy Mater. 26/2018). Advanced Energy Materials, 2018, 8, 1870117.	10.2	0
141	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
142	Predicting Calendar Aging in Lithium Metal Secondary Batteries: The Impacts of Solid Electrolyte Interphase Composition and Stability. Advanced Energy Materials, 2018, 8, 1801427.	10.2	37
143	Nucleation of dislocations and their dynamics in layered oxide cathode materials during battery charging. Nature Energy, 2018, 3, 641-647.	19.8	281
144	Evidence for a conducting surface ground state in high-quality single crystalline FeSi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8558-8562.	3.3	24

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145	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. CheM, 2018, 4, 1877-1892.	5.8	628
146	Modified Coprecipitation Synthesis of Mesostructure-Controlled Li-Rich Layered Oxides for Minimizing Voltage Degradation. ACS Applied Energy Materials, 2018, 1, 3369-3376.	2.5	21
147	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
148	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
149	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
150	Internal-short-mitigating current collector for lithium-ion battery. Journal of Power Sources, 2017, 349, 84-93.	4.0	39
151	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
152	Self-branched Î±-MnO₂/Î´-MnO₂ heterojunction nanowires with enhanced pseudocapacitance. Materials Horizons, 2017, 4, 415-422.	6.4	105
153	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
154	Effects of macromolecular configuration of thermally sensitive binder in lithiumâ€ion battery. Journal of Applied Polymer Science, 2017, 134, 45078.	1.3	7
155	Liquefied gas electrolytes for electrochemical energy storage devices. Science, 2017, 356, .	6.0	271
156	Sensitivity and Limitations of Structures from X-ray and Neutron-Based Diffraction Analyses of Transition Metal Oxide Lithium-Battery Electrodes. Journal of the Electrochemical Society, 2017, 164, A1802-A1811.	1.3	40
157	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
158	Allâ€Printed, Stretchable Znâ€Ag₂O Rechargeable Battery via Hyperelastic Binder for Selfâ€Powering Wearable Electronics. Advanced Energy Materials, 2017, 7, 1602096.	10.2	212
159	Role of Crystal Symmetry in the Reversibility of Stacking-Sequence Changes in Layered Intercalation Electrodes. Nano Letters, 2017, 17, 7789-7795.	4.5	76
160	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
161	Internal short circuit mitigation of high-voltage lithium-ion batteries with functional current collectors. RSC Advances, 2017, 7, 45662-45667.	1.7	11
162	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

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163	Enhancing the Ion Transport in LiMn_{1.5}Ni_{0.5}O₄ by Altering the Particle Wulff Shape via Anisotropic Surface Segregation. ACS Applied Materials & Interfaces, 2017, 9, 36745-36754.	4.0	39
164	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
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