

Ying Shirley Meng

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.

256
papers

23,111
citations

80
h-index

147
g-index

284
ext. papers

28,292
ext. citations

14.3
avg, IF

7.37
L-index

#	Paper	IF	Citations
256	Leveraging cryogenic electron microscopy for advancing battery design. <i>Matter</i> , 2022 , 5, 26-42	12.7	2
255	Investigating dry room compatibility of sulfide solid-state electrolytes for scalable manufacturing. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7155-7164	13	4
254	Transport and Mechanical Aspects of All-Solid-State Lithium Batteries. <i>Materials Today Physics</i> , 2022 , 100679	8	2
253	Quantification of lithium inventory loss in micro silicon anode via titration-gas chromatography. <i>Journal of Power Sources</i> , 2022 , 531, 231327	8.9	1
252	Structure-Selective Operando X-ray Spectroscopy. <i>ACS Energy Letters</i> , 2022 , 7, 261-266	20.1	
251	Revisiting Discharge Mechanism of CF _x as a High Energy Density Cathode Material for Lithium Primary Battery. <i>Advanced Energy Materials</i> , 2022 , 12, 2103196	21.8	10
250	Bridging nano- and microscale X-ray tomography for battery research by leveraging artificial intelligence.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	7
249	Structural insights into composition design of Li-rich layered cathode materials for high-energy rechargeable battery. <i>Materials Today</i> , 2021 ,	21.8	9
248	Pressure-tailored lithium deposition and dissolution in lithium metal batteries. <i>Nature Energy</i> , 2021 , 6, 987-994	62.3	44
247	Moving beyond 99.9% Coulombic efficiency for lithium anodes in liquid electrolytes. <i>Nature Energy</i> , 2021 , 6, 951-960	62.3	51
246	Conformal three-dimensional interphase of Li metal anode revealed by low-dose cryoelectron microscopy. <i>Matter</i> , 2021 ,	12.7	11
245	Structure and Dynamics in Mg-Stabilized NaPO ₃ . <i>Journal of the American Chemical Society</i> , 2021 , 143, 17079-17089	16.4	2
244	Self-Healing and Anti-CO Hydrogels for Flexible Solid-State Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12033-12041	9.5	15
243	Nanostructure Transformation as a Signature of Oxygen Redox in Li-Rich 3d and 4d Cathodes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5763-5770	16.4	9
242	The Negative Impact of Transition Metal Migration on Oxygen Redox Activity of Layered Cathode Materials for Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 040539	3.9	6
241	Dense-Stacking Porous Conjugated Polymer as Reactive-Type Host for High-Performance Lithium Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11359-11369	16.4	17
240	A Safer, Wide-Temperature Liquefied Gas Electrolyte Based on Difluoromethane. <i>Journal of Power Sources</i> , 2021 , 493, 229668	8.9	7

239	A closed-host bi-layer dense/porous solid electrolyte interphase for enhanced lithium-metal anode stability. <i>Materials Today</i> , 2021 ,	21.8	5
238	Enabling the Low-Temperature Cycling of NMC Graphite Pouch Cells with an Ester-Based Electrolyte. <i>ACS Energy Letters</i> , 2021 , 6, 2016-2023	20.1	18
237	A review on the stability and surface modification of layered transition-metal oxide cathodes. <i>Materials Today</i> , 2021 , 46, 155-182	21.8	35
236	Sub-nanometer confinement enables facile condensation of gas electrolyte for low-temperature batteries. <i>Nature Communications</i> , 2021 , 12, 3395	17.4	16
235	Quantitatively Designing Porous Copper Current Collectors for Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6454-6465	6.1	6
234	Cryogenic imaging and spectroscopic study of electrochemically formed solid interphases - from nano to meso scale.. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1246-1246	0.5	
233	Unveiling the Stable Nature of LiPON-associated Electrode/Electrolyte Interphases via Cryogenic Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3324-3327	0.5	1
232	Investigating Degradation Modes in Zn-AgO Aqueous Batteries with In Situ X-Ray Micro Computed Tomography. <i>Advanced Energy Materials</i> , 2021 , 11, 2101327	21.8	5
231	Fast Diagnosis of Failure Mechanisms and Lifetime Prediction of Li Metal Batteries.. <i>Small Methods</i> , 2021 , 5, e2000807	12.8	7
230	Advanced Characterization Techniques for Overcoming Challenges of Perovskite Solar Cell Materials. <i>Advanced Energy Materials</i> , 2021 , 11, 2001753	21.8	13
229	Regeneration of degraded Li-rich layered oxide materials through heat treatment-induced transition metal reordering. <i>Energy Storage Materials</i> , 2021 , 35, 99-107	19.4	12
228	High Pressure Effect on Structural and Electrochemical Properties of Anionic Redox-Based Lithium Transition Metal Oxides. <i>Matter</i> , 2021 , 4, 164-181	12.7	6
227	Could Irradiation Introduce Oxidized Oxygen Signals in Resonant Inelastic X-ray Scattering of Battery Electrodes?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1138-1143	6.4	5
226	High Performance Printed AgO-Zn Rechargeable Battery for Flexible Electronics. <i>Joule</i> , 2021 , 5, 228-248	27.8	33
225	New insights into Li distribution in the superionic argyrodite LiPSCl. <i>Chemical Communications</i> , 2021 , 57, 10787-10790	5.8	4
224	Experimental considerations to study Li-excess disordered rock salt cathode materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1720-1732	13	5
223	Electrochemical Utilization of Iron IV in the Li _{1.3} Fe _{0.4} Nb _{0.3} O ₂ Disordered Rocksalt Cathode. <i>Batteries and Supercaps</i> , 2021 , 4, 771-777	5.6	1
222	A stable cathode-solid electrolyte composite for high-voltage, long-cycle-life solid-state sodium-ion batteries. <i>Nature Communications</i> , 2021 , 12, 1256	17.4	31

221	Whither Mn Oxidation in Mn-Rich Alkali-Excess Cathodes?. <i>ACS Energy Letters</i> , 2021 , 6, 1055-1064	20.1	7
220	Edge-Propagation Discharge Mechanism in CFx Batteries: A First-Principles and Experimental Study. <i>Chemistry of Materials</i> , 2021 , 33, 1760-1770	9.6	11
219	Carbon-free high-loading silicon anodes enabled by sulfide solid electrolytes. <i>Science</i> , 2021 , 373, 1494-1499	33.3	81
218	Quantifying lithium loss in amorphous silicon thin-film anodes via titration-gas chromatography. <i>Cell Reports Physical Science</i> , 2021 , 2, 100597	6.1	3
217	Role of electrolyte in stabilizing hard carbon as an anode for rechargeable sodium-ion batteries with long cycle life. <i>Energy Storage Materials</i> , 2021 , 42, 78-87	19.4	7
216	Liquefied gas electrolytes for wide-temperature lithium metal batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 2209-2219	35.4	63
215	All-Sputtered, Superior Power Density Thin-Film Solid Oxide Fuel Cells with a Novel Nanofibrous Ceramic Cathode. <i>Nano Letters</i> , 2020 , 20, 2943-2949	11.5	21
214	From nanoscale interface characterization to sustainable energy storage using all-solid-state batteries. <i>Nature Nanotechnology</i> , 2020 , 15, 170-180	28.7	187
213	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100028-100028	6.1	23
212	Interfaces and Interphases in All-Solid-State Batteries with Inorganic Solid Electrolytes. <i>Chemical Reviews</i> , 2020 , 120, 6878-6933	68.1	252
211	Impacts of the Hole Transport Layer Deposition Process on Buried Interfaces in Perovskite Solar Cells. <i>Cell Reports Physical Science</i> , 2020 , 1, 100103	6.1	6
210	Sodium-Ion Batteries Paving the Way for Grid Energy Storage. <i>Advanced Energy Materials</i> , 2020 , 10, 2001274	12.7	99
209	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathode-Electrolyte Interface when Addressing Oxygen Redox. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2106-2112	6.4	25
208	Virtual Texture Generated using Elastomeric Conductive Block Copolymer in Wireless Multimodal Haptic Glove. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000018	6	16
207	Thin Solid Electrolyte Layers Enabled by Nanoscopic Polymer Binding. <i>ACS Energy Letters</i> , 2020 , 5, 955-960	10.1	22
206	Pressure effects on sulfide electrolytes for all solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5049-5055	13	80
205	A Facile, Dry-Processed Lithium Borate-Based Cathode Coating for Improved All-Solid-State Battery Performance. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 130516	3.9	9
204	Effective Upcycling of Graphite Anode: Healing and Doping Enabled Direct Regeneration. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 160511	3.9	11

203	Tuning Internal Strain in Metal-Organic Frameworks via Vapor Phase Infiltration for CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 4602-4610	3.6	11
202	Tuning Internal Strain in Metal-Organic Frameworks via Vapor Phase Infiltration for CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4572-4580	16.4	19
201	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. <i>Chemistry of Materials</i> , 2020 , 32, 1002-1010	9.6	26
200	Stack Pressure Considerations for Room-Temperature All-Solid-State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903253	21.8	165
199	Enabling high areal capacity for Co-free high voltage spinel materials in next-generation Li-ion batteries. <i>Journal of Power Sources</i> , 2020 , 473, 228579	8.9	28
198	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. <i>Joule</i> , 2020 , 4, 2609-2626	7.8	62
197	KN95 and N95 Respirators Retain Filtration Efficiency despite a Loss of Dipole Charge during Decontamination. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54473-54480	9.5	31
196	Quantitative Specifications to Avoid Degradation during E-Beam and Induced Current Microscopy of Halide Perovskite Devices. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18961-18967	3.8	2
195	Glassy Li metal anode for high-performance rechargeable Li batteries. <i>Nature Materials</i> , 2020 , 19, 1339-1345	17.4	86
194	Unveiling the Stable Nature of the Solid Electrolyte Interphase between Lithium Metal and LiPON via Cryogenic Electron Microscopy. <i>Joule</i> , 2020 , 4, 2484-2500	27.8	56
193	Local Structure of Glassy Lithium Phosphorus Oxynitride Thin Films: A Combined Experimental and Ab Initio Approach. <i>Angewandte Chemie</i> , 2020 , 132, 22369-22377	3.6	0
192	Nano-Ceramic Cathodes via Co-sputtering of GdTe Alloy and Lanthanum Strontium Cobaltite for Low-Temperature Thin-Film Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8135-8142	6.1	6
191	Local Structure of Glassy Lithium Phosphorus Oxynitride Thin Films: A Combined Experimental and Ab Initio Approach. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22185-22193	16.4	8
190	Sustainable design of fully recyclable all solid-state batteries. <i>MRS Energy & Sustainability</i> , 2020 , 7, 1	2.2	14
189	A review on mechanistic understanding of MnO ₂ in aqueous electrolyte for electrical energy storage systems. <i>International Materials Reviews</i> , 2020 , 65, 356-387	16.1	63
188	Local structure adaptability through multi cations for oxygen redox accommodation in Li-Rich layered oxides. <i>Energy Storage Materials</i> , 2020 , 24, 384-393	19.4	75
187	Energy Spotlight. <i>ACS Energy Letters</i> , 2019 , 4, 2763-2769	20.1	0
186	Quantifying inactive lithium in lithium metal batteries. <i>Nature</i> , 2019 , 572, 511-515	50.4	467

185	Cryogenic Focused Ion Beam Characterization of Lithium Metal Anodes. <i>ACS Energy Letters</i> , 2019 , 4, 489-493	49.3	69
184	Bisalt ether electrolytes: a pathway towards lithium metal batteries with Ni-rich cathodes. <i>Energy and Environmental Science</i> , 2019 , 12, 780-794	35.4	196
183	Nanosheet-assembled hierarchical Li ₄ Ti ₅ O ₁₂ microspheres for high-volumetric-density and high-rate Li-ion battery anode. <i>Energy Storage Materials</i> , 2019 , 21, 361-371	19.4	39
182	In situ formed polymer gel electrolytes for lithium batteries with inherent thermal shutdown safety features. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16984-16991	13	25
181	Single-step synthesis of highly conductive Na ₃ PS ₄ solid electrolyte for sodium all solid-state batteries. <i>Journal of Power Sources</i> , 2019 , 435, 126623	8.9	32
180	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO ₂ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13201-13207	3.8	28
179	Wearable thermoelectrics for personalized thermoregulation. <i>Science Advances</i> , 2019 , 5, eaaw0536	14.3	154
178	Key Issues Hindering a Practical Lithium-Metal Anode. <i>Trends in Chemistry</i> , 2019 , 1, 152-158	14.8	208
177	Role of Polyacrylic Acid (PAA) Binder on the Solid Electrolyte Interphase in Silicon Anodes. <i>Chemistry of Materials</i> , 2019 , 31, 2535-2544	9.6	59
176	Ambient-Pressure Relithiation of Degraded Li _x Ni _{0.5} Co _{0.2} Mn _{0.3} O ₂ (0 Advanced Energy Materials, 2019 , 9, 1900454	21.8	73
175	Homogenized halides and alkali cation segregation in alloyed organic-inorganic perovskites. <i>Science</i> , 2019 , 363, 627-631	33.3	190
174	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019 , 4, 180-186	62.3	1202
173	Comprehensive study of a versatile polyol synthesis approach for cathode materials for Li-ion batteries. <i>Nano Research</i> , 2019 , 12, 2238-2249	10	5
172	In Situ Analytical Electron Microscopy and Cryogenic Electron Microscopy for Characterizing Nanoscale Materials in Electrochemical Process. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1856-1857	0.5	
171	Enabling Thin and Flexible Solid-State Composite Electrolytes by the Scalable Solution Process. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6542-6550	6.1	42
170	Elucidating Reversible Electrochemical Redox of Li ₆ PS ₅ Cl Solid Electrolyte. <i>ACS Energy Letters</i> , 2019 , 4, 2418-2427	20.1	113
169	Meso-Structure Controlled Synthesis of Sodium Iron-Manganese Oxides Cathode for Low-Cost Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2528-A2535	3.9	7
168	High-Efficiency Lithium-Metal Anode Enabled by Liquefied Gas Electrolytes. <i>Joule</i> , 2019 , 3, 1986-2000	27.8	116

167	Revealing Nanoscale Solid-Solid Interfacial Phenomena for Long-Life and High-Energy All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43138-43145	9.5	57
166	Exploiting Mechanistic Solvation Kinetics for Dual-Graphite Batteries with High Power Output at Extremely Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18892-18897	16.4	59
165	Exploiting Mechanistic Solvation Kinetics for Dual-Graphite Batteries with High Power Output at Extremely Low Temperature. <i>Angewandte Chemie</i> , 2019 , 131, 19068-19073	3.6	14
164	Effect of Metal Electrodes on Aging-Induced Performance Recovery in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48497-48504	9.5	10
163	Perspective Fluorinating Interphases. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5184-A5186	3.9	78
162	Combined economic and technological evaluation of battery energy storage for grid applications. <i>Nature Energy</i> , 2019 , 4, 42-50	62.3	138
161	A carbonate-free, sulfone-based electrolyte for high-voltage Li-ion batteries. <i>Materials Today</i> , 2018 , 21, 341-353	21.8	171
160	Understanding the Electrochemical Mechanisms Induced by Gradient Mg ²⁺ Distribution of Na-Rich Na _{3+x} V ₂ Mg _x (PO ₄) ₃ /C for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 2498-2505	9.6	68
159	Ionotactile Stimulation: Nonvolatile Ionic Gels for Human-Machine Interfaces. <i>ACS Omega</i> , 2018 , 3, 662-666	6.6	18
158	Identifying the chemical and structural irreversibility in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ δ model compound for classical layered intercalation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4189-4198	13	41
157	Intercalation and Conversion Reactions of Nanosized δ MnO ₂ Cathode in the Secondary Zn/MnO ₂ Alkaline Battery. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11177-11185	3.8	44
156	Structure and Solution Dynamics of Lithium Methyl Carbonate as a Protective Layer For Lithium Metal. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1864-1869	6.1	34
155	Focused Ion Beam Fabrication of LiPON-based Solid-state Lithium-ion Nanobatteries for In Situ Testing. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	4
154	New Insights into the Interphase between the Na Metal Anode and Sulfide Solid-State Electrolytes: A Joint Experimental and Computational Study. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10076-10086	9.5	62
153	Effects of electrode pattern on thermal runaway of lithium-ion battery. <i>International Journal of Damage Mechanics</i> , 2018 , 27, 74-81	3	3
152	Three-dimensional nanoscale characterisation of materials by atom probe tomography. <i>International Materials Reviews</i> , 2018 , 63, 68-101	16.1	94
151	Predicting Calendar Aging in Lithium Metal Secondary Batteries: The Impacts of Solid Electrolyte Interphase Composition and Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1801427	21.8	21
150	Nucleation of dislocations and their dynamics in layered oxide cathode materials during battery charging. <i>Nature Energy</i> , 2018 , 3, 641-647	62.3	187

149	Evidence for a conducting surface ground state in high-quality single crystalline FeSi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8558-8562	11.5	10
148	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. <i>CheM</i> , 2018 , 4, 1877-1892	16.2	348
147	Modified Coprecipitation Synthesis of Mesostructure-Controlled Li-Rich Layered Oxides for Minimizing Voltage Degradation. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3369-3376	6.1	11
146	Enhancing the electrochemical performance of Li-rich layered oxide $\text{Li}_{1.13}\text{Ni}_{0.3}\text{Mn}_{0.57}\text{O}_2$ via WO_3 doping and accompanying spontaneous surface phase formation. <i>Journal of Power Sources</i> , 2018 , 375, 21-28	8.9	47
145	Mitigating oxygen release in anionic-redox-active cathode materials by cationic substitution through rational design. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24651-24659	13	12
144	Unveiling the Role of tBP-LiTFSI Complexes in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16720-16730	16.4	120
143	A monoclinic polymorph of sodium birnessite for ultrafast and ultrastable sodium ion storage. <i>Nature Communications</i> , 2018 , 9, 5100	17.4	93
142	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. <i>Review of Scientific Instruments</i> , 2018 , 89, 093002	1.7	13
141	Hybrid Li-Ion and Li-O ₂ Battery Enabled by Oxyhalogen-Sulfur Electrochemistry. <i>Joule</i> , 2018 , 2, 2381-2392	27.8	10
140	In situ and operando probing of solid-solid interfaces in electrochemical devices. <i>MRS Bulletin</i> , 2018 , 43, 768-774	3.2	12
139	Cryogenic Electron Microscopy for Characterizing and Diagnosing Batteries. <i>Joule</i> , 2018 , 2, 2225-2234	27.8	80
138	Batteries: Predicting Calendar Aging in Lithium Metal Secondary Batteries: The Impacts of Solid Electrolyte Interphase Composition and Stability (Adv. Energy Mater. 26/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870117	21.8	
137	Urea-based hydrothermal synthesis of $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ cathode material for Li-ion battery. <i>Journal of Power Sources</i> , 2018 , 394, 114-121	8.9	55
136	Direct evidence for high Na^+ mobility and high voltage structural processes in $\text{P2-Na}_x[\text{Li}_y\text{Ni}_z\text{Mn}_{1-y-z}]\text{O}_2$ ($x, y, z \leq 1$) cathodes from solid-state NMR and DFT calculations. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4129-4143	13	78
135	Understanding and Controlling Anionic Electrochemical Activity in High-Capacity Oxides for Next Generation Li-Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 908-915	9.6	81
134	Exploring Oxygen Activity in the High Energy P2-Type NaNiMnO Cathode Material for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4835-4845	16.4	275
133	Internal-short-mitigating current collector for lithium-ion battery. <i>Journal of Power Sources</i> , 2017 , 349, 84-93	8.9	24
132	Divalent-doped $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ sodium superionic conductor: Improving the ionic conductivity via simultaneously optimizing the phase and chemistry of the primary and secondary phases. <i>Journal of Power Sources</i> , 2017 , 347, 229-237	8.9	77

131	Self-branched $\text{MnO}_2/\text{MnO}_2$ heterojunction nanowires with enhanced pseudocapacitance. <i>Materials Horizons</i> , 2017 , 4, 415-422	14.4	89
130	Revisiting the conversion reaction voltage and the reversibility of the CuF_2 electrode in Li-ion batteries. <i>Nano Research</i> , 2017 , 10, 4232-4244	10	33
129	Effects of macromolecular configuration of thermally sensitive binder in lithium-ion battery. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45078	2.9	5
128	Liquefied gas electrolytes for electrochemical energy storage devices. <i>Science</i> , 2017 , 356,	33.3	165
127	Sensitivity and Limitations of Structures from X-ray and Neutron-Based Diffraction Analyses of Transition Metal Oxide Lithium-Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1802-A1811	3.9	32
126	Electrochemical performance and interfacial investigation on Si composite anode for lithium ion batteries in full cell. <i>Journal of Power Sources</i> , 2017 , 359, 173-181	8.9	49
125	All-Printed, Stretchable Zn-Ag ₂ O Rechargeable Battery via Hyperelastic Binder for Self-Powering Wearable Electronics. <i>Advanced Energy Materials</i> , 2017 , 7, 1602096	21.8	163
124	Role of Crystal Symmetry in the Reversibility of Stacking-Sequence Changes in Layered Intercalation Electrodes. <i>Nano Letters</i> , 2017 , 17, 7789-7795	11.5	48
123	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. <i>Chemical Reviews</i> , 2017 , 117, 13123-13186	68.1	291
122	Internal short circuit mitigation of high-voltage lithium-ion batteries with functional current collectors. <i>RSC Advances</i> , 2017 , 7, 45662-45667	3.7	9
121	Revisiting the origin of cycling enhanced capacity of Fe_3O_4 based nanostructured electrode for lithium ion batteries. <i>Nano Energy</i> , 2017 , 41, 426-433	17.1	100
120	Enhancing the Ion Transport in LiMnNiO by Altering the Particle Wulff Shape via Anisotropic Surface Segregation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36745-36754	9.5	32
119	New Insights on the Structure of Electrochemically Deposited Lithium Metal and Its Solid Electrolyte Interphases via Cryogenic TEM. <i>Nano Letters</i> , 2017 , 17, 7606-7612	11.5	236
118	White-light emission of blue-luminescent graphene quantum dots by europium (III) complex incorporation. <i>Carbon</i> , 2017 , 124, 479-485	10.4	24
117	Nanoconfined Iron Oxychloride Material as a High-Performance Cathode for Rechargeable Chloride Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2341-2348	20.1	51
116	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO_2 nanotubes as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20651-20657	13	34
115	Using high-HFP-content cathode binder for mitigation of heat generation of lithium-ion battery. <i>International Journal of Energy Research</i> , 2017 , 41, 2430-2438	4.5	13
114	Narrowing the Gap between Theoretical and Practical Capacities in Li-Ion Layered Oxide Cathode Materials. <i>Advanced Energy Materials</i> , 2017 , 7, 1602888	21.8	315

113	Advancing In situ Analytical Electron Microscopy for Probing Dynamic Nano-Scale Solid State Electrochemistry. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1962-1963	0.5	
112	Improvement of the Cathode Electrolyte Interphase on P2-NaNiMnO by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26518-26530	9.5	98
111	Self-Assembled Framework Formed During Lithiation of SnS Nanoplates Revealed by in Situ Electron Microscopy. <i>Accounts of Chemical Research</i> , 2017 , 50, 1513-1520	24.3	25
110	Thin-film electrochemical sensor electrode for rapid evaluation of electrolytic conductivity, cyclic voltammetry, and temperature measurements. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 59-67	2.6	10
109	Direct Visualization of the Solid Electrolyte Interphase and Its Effects on Silicon Electrochemical Performance. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600438	4.6	43
108	Electrochemical reaction and surface chemistry for performance enhancement of a Si composite anode using a bis(fluorosulfonyl)imide-based ionic liquid. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15117-15123	17.3	1523
107	Durable high-rate capability Na _{0.44} MnO ₂ cathode material for sodium-ion batteries. <i>Nano Energy</i> , 2016 , 27, 602-610	17.1	96
106	Role of 4-tert-Butylpyridine as a Hole Transport Layer Morphological Controller in Perovskite Solar Cells. <i>Nano Letters</i> , 2016 , 16, 5594-600	11.5	170
105	Exothermic behaviors of mechanically abused lithium-ion batteries with dibenzylamine. <i>Journal of Power Sources</i> , 2016 , 326, 514-521	8.9	15
104	Effects of Angular Fillers on Thermal Runaway of Lithium-Ion Battery. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 1117-1121	9.1	17
103	Role of Amines in Thermal-Runaway-Mitigating Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30956-30963	9.5	12
102	Room-Temperature All-solid-state Rechargeable Sodium-ion Batteries with a Cl-doped Na ₃ PS ₄ Superionic Conductor. <i>Scientific Reports</i> , 2016 , 6, 33733	4.9	147
101	Gas-solid interfacial modification of oxygen activity in layered oxide cathodes for lithium-ion batteries. <i>Nature Communications</i> , 2016 , 7, 12108	17.4	379
100	Deposition of ZnO on bismuth species towards a rechargeable Zn-based aqueous battery. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26376-26382	3.6	32
99	Elucidating the Phase Transformation of Li ₄ Ti ₅ O ₁₂ Lithiation at the Nanoscale. <i>ACS Nano</i> , 2016 , 10, 4312-4321	12.7	112
98	Enhancing the Electrochemical Performance of Lithium-Excess Layered Oxide Li _{1.13} Ni _{0.3} Mn _{0.57} O ₂ via a Facile Nanoscale Surface Modification. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A971-A973	3.9	22
97	Self-standing porous LiMn ₂ O ₄ nanowall arrays as promising cathodes for advanced 3D microbatteries and flexible lithium-ion batteries. <i>Nano Energy</i> , 2016 , 22, 475-482	17.1	150
96	Insights into the Performance Limits of the Li ₇ P ₃ S ₁₁ Superionic Conductor: A Combined First-Principles and Experimental Study. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7843-53	9.5	130

95	Morphological and Chemical Evolution of Silicon Nanocomposite during Cycling. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1334-1335	0.5	
94	Operando Lithium Dynamics in the Li-Rich Layered Oxide Cathode Material via Neutron Diffraction. <i>Advanced Energy Materials</i> , 2016 , 6, 1502143	21.8	85
93	Performance and design considerations for lithium excess layered oxide positive electrode materials for lithium ion batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 1931-1954	35.4	248
92	Effects of cathode electrolyte interfacial (CEI) layer on long term cycling of all-solid-state thin-film batteries. <i>Journal of Power Sources</i> , 2016 , 324, 342-348	8.9	48
91	Effect of Multiple Cation Electrolyte Mixtures on Rechargeable Zn/MnO ₂ Alkaline Battery. <i>Chemistry of Materials</i> , 2016 , 28, 4536-4545	9.6	88
90	Ultrathin Al ₂ O ₃ Coatings for Improved Cycling Performance and Thermal Stability of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Material. <i>Electrochimica Acta</i> , 2016 , 203, 154-161	6.7	125
89	In Situ STEM-EELS Observation of Nanoscale Interfacial Phenomena in All-Solid-State Batteries. <i>Nano Letters</i> , 2016 , 16, 3760-7	11.5	203
88	Investigation of Anatase-TiO ₂ as an Efficient Electrode Material for Magnesium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2368-A2370	3.9	23
87	Identifying the Distribution of Al ³⁺ in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ . <i>Chemistry of Materials</i> , 2016 , 28, 8170-8180	9.6	60
86	Experimental and Computational Evaluation of a Sodium-Rich Anti-Perovskite for Solid State Electrolytes. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2165-A2171	3.9	29
85	Preparation of Mesoporous Si@PAN Electrodes for Li-Ion Batteries via the In-Situ Polymerization of PAN. <i>ECS Electrochemistry Letters</i> , 2015 , 4, A33-A36		5
84	Frontiers of in situ electron microscopy. <i>MRS Bulletin</i> , 2015 , 40, 12-18	3.2	93
83	Exploring Li substituted O ₃ -structured layered oxides NaLi _x Ni _{1/3} Mn _{1/3+x} Co _{1/3} O ₂ (x = 0.07, 0.13, and 0.2) as promising cathode materials for rechargeable Na batteries. <i>Electrochemistry Communications</i> , 2015 , 60, 13-16	5.1	33
82	Improved electrochemical performance of tin-sulfide anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16971-16977	13	76
81	Effect of Surface Modification on Nano-Structured LiNi _{0.5} Mn _{1.5} O ₄ Spinel Materials. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16231-9	9.5	83
80	Investigating the Energy Storage Mechanism of SnS ₂ -rGO Composite Anode for Advanced Na-Ion Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 5633-5640	9.6	167
79	Advanced analytical electron microscopy for lithium-ion batteries. <i>NPG Asia Materials</i> , 2015 , 7, e193-e193	10.3	60
78	BATTERIES. Topological defect dynamics in operando battery nanoparticles. <i>Science</i> , 2015 , 348, 1344-7	33.3	243

77	Electrochemical properties of tin oxide anodes for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 284, 287-295	8.9	97
76	In situ strain evolution during a disconnection event in a battery nanoparticle. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10551-5	3.6	34
75	Role of LiCoO ₂ Surface Terminations in Oxygen Reduction and Evolution Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1357-62	6.4	46
74	Spectrum-Dependent Spiro-OMeTAD Oxidization Mechanism in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24791-8	9.5	127
73	The Effect of Fluoroethylene Carbonate as an Additive on the Solid Electrolyte Interphase on Silicon Lithium-Ion Electrodes. <i>Chemistry of Materials</i> , 2015 , 27, 5531-5542	9.6	271
72	Understanding the Role of NH ₄ ⁺ and Al ³⁺ Surface Co-modification on Lithium-Excess Layered Oxide Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19189-200	9.5	78
71	In situ non-aqueous nucleation and growth of next generation rare-earth-free permanent magnets. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1070-6	3.6	20
70	Effects of laser energy and wavelength on the analysis of LiFePO ₄ using laser assisted atom probe tomography. <i>Ultramicroscopy</i> , 2015 , 148, 57-66	3.1	51
69	Dependence on Crystal Size of the Nanoscale Chemical Phase Distribution and Fracture in Li _x FePO ₄ . <i>Nano Letters</i> , 2015 , 15, 4282-8	11.5	80
68	Nonequilibrium Pathways during Electrochemical Phase Transformations in Single Crystals Revealed by Dynamic Chemical Imaging at Nanoscale Resolution. <i>Advanced Energy Materials</i> , 2015 , 5, 1402040	21.8	37
67	Structural and electrochemical properties of Gd-doped Li ₄ Ti ₅ O ₁₂ as anode material with improved rate capability for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 280, 355-362	8.9	98
66	New insights into the electrochemical performance of Li ₂ MnSiO ₄ : effect of cationic substitutions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6004-6011	13	24
65	MIL-101(Fe) as a lithium-ion battery electrode material: a relaxation and intercalation mechanism during lithium insertion. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4738-4744	13	130
64	Reusable oxidation catalysis using metal-monocatecholato species in a robust metal-organic framework. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4965-73	16.4	227
63	Single particle nanomechanics in operando batteries via lensless strain mapping. <i>Nano Letters</i> , 2014 , 14, 5123-7	11.5	78
62	Understanding improved electrochemical properties of NiO-doped NiF ₂ -C composite conversion materials by X-ray absorption spectroscopy and pair distribution function analysis. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3095-102	3.6	12
61	Uncovering the roles of oxygen vacancies in cation migration in lithium excess layered oxides. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14665-8	3.6	186
60	Interface Limited Lithium Transport in Solid-State Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 298-303	6.4	129

59	Understanding Na ₂ CO ₃ as an ultra-low voltage anode material for a Na-ion battery. <i>Chemical Communications</i> , 2014 , 50, 12564-7	5.8	111
58	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu ₂ Sb Anodes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7856-7864	3.8	61
57	Chemical composition mapping with nanometre resolution by soft X-ray microscopy. <i>Nature Photonics</i> , 2014 , 8, 765-769	33.9	293
56	Layered SnS ₂ -reduced graphene oxide composite--a high-capacity, high-rate, and long-cycle life sodium-ion battery anode material. <i>Advanced Materials</i> , 2014 , 26, 3854-9	24	679
55	Engineering three-dimensionally electrodeposited Si-on-Ni inverse opal structure for high volumetric capacity Li-ion microbattery anode. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9842-9	9.5	37
54	Identifying the Critical Role of Li Substitution in P ₂ Nax[LiyNizMn1-x-y]O ₂ (0 Chemistry of Materials, 2014 , 26, 1260-1269	9.6	325
53	Nonequilibrium structural dynamics of nanoparticles in LiNi(1/2)Mn(3/2)O ₄ cathode under operando conditions. <i>Nano Letters</i> , 2014 , 14, 5295-300	11.5	56
52	Sodium Manganese Oxide Thin Films as Cathodes for Na-Ion Batteries. <i>ECS Transactions</i> , 2014 , 58, 47-57	1	8
51	Effect of morphology and manganese valence on the voltage fade and capacity retention of Li[Li ₂ /12Ni ₃ /12Mn ₇ /12]O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18868-77	9.5	71
50	Electrochemical and thermal properties of P ₂ -type Na ₂ /3Fe ₁ /3Mn ₂ /3O ₂ for Na-ion batteries. <i>Journal of Power Sources</i> , 2014 , 264, 235-239	8.9	84
49	Nanoscale strain mapping in battery nanostructures. <i>Applied Physics Letters</i> , 2014 , 104, 073108	3.4	37
48	RECENT ADVANCES IN SODIUM INTERCALATION POSITIVE ELECTRODE MATERIALS FOR SODIUM ION BATTERIES. <i>Functional Materials Letters</i> , 2013 , 06, 1330001	1.2	72
47	Electrodeposited three-dimensional Ni-Si nanocable arrays as high performance anodes for lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 10376-83	7.7	33
46	Synthesis of LiNi _x Fe _{1-x} PO ₄ solid solution as cathode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2013 , 108, 827-832	6.7	36
45	Probing the electrode/electrolyte interface in the lithium excess layered oxide Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ . <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11128-38	3.6	89
44	Introduction and Foreword to Focus Issue on Intercalation Compounds for Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, Y2-Y3	3.9	2
43	Recent advances in first principles computational research of cathode materials for lithium-ion batteries. <i>Accounts of Chemical Research</i> , 2013 , 46, 1171-80	24.3	110
42	In-situ neutron diffraction study of the xLi ₂ MnO ₃ (1-x)LiMO ₂ (x=[0,0.5; M=[Ni, Mn, Co) layered oxide compounds during electrochemical cycling. <i>Journal of Power Sources</i> , 2013 , 240, 772-778	8.9	76

41	An advanced cathode for Na-ion batteries with high rate and excellent structural stability. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3304-12	3.6	387
40	Three-dimensional nanocable arrays with a copper core and cupric oxide shell for high power lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 11586	3.7	5
39	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. <i>Chemistry of Materials</i> , 2013 , 25, 1621-1629	9.6	209
38	Achieving high efficiency and cyclability in inexpensive soluble lead flow batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 1573	35.4	44
37	Reciprocal Salt Flux Growth of LiFePO ₄ Single Crystals with Controlled Defect Concentrations. <i>Chemistry of Materials</i> , 2013 , 25, 4574-4584	9.6	34
36	Effect of Ni/Mn Ordering on Elementary Polarizations of LiNi _{0.5} Mn _{1.5} O ₄ Spinel and Its Nanostructured Electrode. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1482-A1488	3.9	14
35	Conversion mechanism of nickel fluoride and NiO-doped nickel fluoride in Li ion batteries. <i>Electrochimica Acta</i> , 2012 , 59, 213-221	6.7	40
34	TiO ₂ flakes as anode materials for Li-ion-batteries. <i>Journal of Power Sources</i> , 2012 , 207, 166-172	8.9	72
33	In situ X-ray diffraction study of the lithium excess layered oxide compound Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ during electrochemical cycling. <i>Solid State Ionics</i> , 2012 , 207, 44-49	3.3	55
32	Recent progress in cathode materials research for advanced lithium ion batteries. <i>Materials Science and Engineering Reports</i> , 2012 , 73, 51-65	30.9	515
31	High pressure driven structural and electrochemical modifications in layered lithium transition metal intercalation oxides. <i>Energy and Environmental Science</i> , 2012 , 5, 6214	35.4	28
30	High rate delithiation behaviour of LiFePO ₄ studied by quick X-ray absorption spectroscopy. <i>Chemical Communications</i> , 2012 , 48, 11537-9	5.8	50
29	Lithium Lanthanum Titanium Oxides: A Fast Ionic Conductive Coating for Lithium-Ion Battery Cathodes. <i>Chemistry of Materials</i> , 2012 , 24, 2744-2751	9.6	90
28	Intrinsic Surface Stability in LiMn _{2-x} Ni _x O ₄ (x = 0.45, 0.5) High Voltage Spinel Materials for Lithium Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, A72		27
27	A Symmetric RuO ₂ /RuO ₂ Supercapacitor Operating at 1.6 V by Using a Neutral Aqueous Electrolyte. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, A60		277
26	Identifying surface structural changes in layered Li-excess nickel manganese oxides in high voltage lithium ion batteries: A joint experimental and theoretical study. <i>Energy and Environmental Science</i> , 2011 , 4, 2223	35.4	647
25	In Situ Analytical Electron Microscopy for Probing Nanoscale Electrochemistry. <i>Electrochemical Society Interface</i> , 2011 , 20, 49-53	3.6	18
24	Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15521		40

23	Cluster expansion and optimization of thermal conductivity in SiGe nanowires. <i>Physical Review B</i> , 2010 , 81,	3.3	27
22	Structural and Electrochemical Properties of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Thin-Film Electrodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A348	3.9	20
21	Lithium Diffusion in Graphitic Carbon. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1176-1180	6.4	525
20	Synthesis-Structure-Property Relations in Layered, δ -excess Oxides Electrode Materials $\text{Li}[\text{Li}_{1-3x/3}\text{Ni}_x\text{Mn}_{2/3-x/3}]\text{O}_2$ ($x=1/3, 1/4, \text{ and } 1/5$). <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1202	3.9	83
19	First principles computational materials design for energy storage materials in lithium ion batteries. <i>Energy and Environmental Science</i> , 2009 , 2, 589	35.4	387
18	First-Principles Investigation of the LiFeF_6 Phase Diagram and Equilibrium and Nonequilibrium Conversion Reactions of Iron Fluorides with Lithium. <i>Chemistry of Materials</i> , 2008 , 20, 5274-5283	9.6	200
17	Electrochemical Properties of Nanostructured $\text{Al}_{1-x}\text{Cu}_x$ Alloys as Anode Materials for Rechargeable Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A615	3.9	26
16	Publisher's Note: Electrochemical Properties of Nanostructured $\text{Al}_{1-x}\text{Cu}_x$ Alloys as Anode Materials for Rechargeable Lithium-Ion Batteries [J. Electrochem. Soc., 155, A615 (2008)]. <i>Journal of the Electrochemical Society</i> , 2008 , 155, S10	3.9	2
15	Synthesis and electrochemical properties of layered $\text{LiNi}_{2/3}\text{Sb}_{1/3}\text{O}_2$. <i>Journal of Power Sources</i> , 2007 , 173, 550-555	8.9	34
14	Phase Transitions and High-Voltage Electrochemical Behavior of LiCoO_2 Thin Films Grown by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A337	3.9	137
13	Electrochemical Properties of Nonstoichiometric $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Thin-Film Electrodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A737	3.9	105
12	Phase Stability of Nickel Hydroxides and Oxyhydroxides. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A210	3.9	148
11	Electrodes with high power and high capacity for rechargeable lithium batteries. <i>Science</i> , 2006 , 311, 977-803	3.9	2120
10	Cation Ordering in Layered $\text{O}_3 \text{Li}[\text{Ni}_x\text{Li}_{1/3-2x/3}\text{Mn}_{2/3-x/3}]\text{O}_2$ ($0 \leq x \leq 1/2$) Compounds. <i>Chemistry of Materials</i> , 2005 , 17, 2386-2394	9.6	245
9	Ab initio study of sodium ordering in $\text{Na}_{0.75}\text{CoO}_2$ and its relation to $\text{Co}^{3+}/\text{Co}^{4+}$ charge ordering. <i>Physical Review B</i> , 2005 , 72,	3.3	41
8	Understanding the Crystal Structure of Layered $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ by Electron Diffraction and Powder Diffraction Simulation. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A155		111
7	Elucidating the Effect of Borate Additive in High-Voltage Electrolyte for Li-Rich Layered Oxide Materials. <i>Advanced Energy Materials</i> , 2103033	21.8	5
6	Disorder Dynamics in Battery Nanoparticles During Phase Transitions Revealed by Operando Single-Particle Diffraction. <i>Advanced Energy Materials</i> , 2103521	21.8	0

5	Pushing the limit of 3d transition metal-based layered oxides that use both cation and anion redox for energy storage. <i>Nature Reviews Materials</i> ,	73.3	10
4	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. <i>ACS Energy Letters</i> ,1399-1404	78	
3	Fabrication of High-Quality Thin Solid-State Electrolyte Films Assisted by Machine Learning. <i>ACS Energy Letters</i> ,1639-1648	20.1	15
2	Imaging Real-Time Amorphization of Hybrid Perovskite Solar Cells under Electrical Biasing. <i>ACS Energy Letters</i> ,3530-3537	20.1	4
1	Interphase control for high performance lithium metal batteries using ether aided ionic liquid electrolyte. <i>Energy and Environmental Science</i> ,	35.4	9