

Jie Xiao

List of Publications by Year in descending order

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133
papers

27,618
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8732

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134
times ranked

16775
citing authors

#	ARTICLE	IF	CITATIONS
1	Lab-on-a-Fish: Wireless, Miniaturized, Fully Integrated, Implantable Biotelemetric Tag for Real-Time <i>In Vivo</i> Monitoring of Aquatic Animals. <i>IEEE Internet of Things Journal</i> , 2022, 9, 10751-10762.	5.5	12
2	To Pave the Way for Large-Scale Electrode Processing of Moisture-Sensitive Ni-Rich Cathodes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020521.	1.3	15
3	Perspective—Electrochemistry in Understanding and Designing Electrochemical Energy Storage Systems. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010524.	1.3	3
4	Locking oxygen in lattice: A quantifiable comparison of gas generation in polycrystalline and single crystal Ni-rich cathodes. <i>Energy Storage Materials</i> , 2022, 47, 195-202.	9.5	50
5	A granular approach to electrode design. <i>Science</i> , 2022, 376, 455-456.	6.0	2
6	Additive engineering for robust interphases to stabilize high-Ni layered structures at ultra-high voltage of 4.8 V. <i>Nature Energy</i> , 2022, 7, 484-494.	19.8	138
7	Early Failure of Lithium-Sulfur Batteries at Practical Conditions: Crosstalk between Sulfur Cathode and Lithium Anode. <i>Advanced Science</i> , 2022, 9, e2201640.	5.6	12
8	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. <i>ACS Energy Letters</i> , 2022, 7, 2420-2427.	8.8	9
9	Mesoscale-architecture-based crack evolution dictating cycling stability of advanced lithium ion batteries. <i>Nano Energy</i> , 2021, 79, 105420.	8.2	36
10	Optimization of fluorinated orthoformate based electrolytes for practical high-voltage lithium metal batteries. <i>Energy Storage Materials</i> , 2021, 34, 76-84.	9.5	65
11	Identification of LiH and nanocrystalline LiF in the solid electrolyte interphase of lithium metal anodes. <i>Nature Nanotechnology</i> , 2021, 16, 549-554.	15.6	171
12	Effects of fluorinated solvents on electrolyte solvation structures and electrode/electrolyte interphases for lithium metal batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	131
13	High-Energy Lateral Mapping (HELM) Studies of Inhomogeneity and Failure Mechanisms in NMC622/Li Pouch Cells. <i>Chemistry of Materials</i> , 2021, 33, 2378-2386.	3.2	16
14	Origin, Nature, and the Dynamic Behavior of Nanoscale Vacancy Clusters in Ni-Rich Layered Oxide Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18849-18855.	4.0	7
15	Achieving highly reproducible results in graphite-based Li-ion full coin cells. <i>Joule</i> , 2021, 5, 1011-1015.	11.7	31
16	Understanding Diffusion and Electrochemical Reduction of Li^+ Ions in Liquid Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060513.	1.3	21
17	Balancing interfacial reactions to achieve long cycle life in high-energy lithium metal batteries. <i>Nature Energy</i> , 2021, 6, 723-732.	19.8	285
18	Fundamental Linkage Between Structure, Electrochemical Properties, and Chemical Compositions of $\text{LiNi}_{1-x}\text{Mn}_x\text{Co}_y\text{O}_2$ Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2622-2629.	4.0	19

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19	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. <i>ACS Energy Letters</i> , 2020, 5, 200-206.	8.8	44
20	Lithium Metal Anodes with Nonaqueous Electrolytes. <i>Chemical Reviews</i> , 2020, 120, 13312-13348.	23.0	393
21	Glassy Li metal anode for high-performance rechargeable Li batteries. <i>Nature Materials</i> , 2020, 19, 1339-1345.	13.3	162
22	Reaction heterogeneity in practical high-energy lithium-sulfur pouch cells. <i>Energy and Environmental Science</i> , 2020, 13, 3620-3632.	15.6	127
23	Stabilizing Zinc Anode Reactions by Polyethylene Oxide Polymer in Mild Aqueous Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2003932.	7.8	210
24	Reversible planar gliding and microcracking in a single-crystalline Ni-rich cathode. <i>Science</i> , 2020, 370, 1313-1317.	6.0	472
25	Role of inner solvation sheath within salt-solvent complexes in tailoring electrode/electrolyte interphases for lithium metal batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28603-28613.	3.3	191
26	Optimized Al Doping Improves Both Interphase Stability and Bulk Structural Integrity of Ni-Rich NMC Cathode Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 3369-3377.	2.5	66
27	Unlocking the passivation nature of the cathode-air interfacial reactions in lithium ion batteries. <i>Nature Communications</i> , 2020, 11, 3204.	5.8	55
28	Understanding and applying coulombic efficiency in lithium metal batteries. <i>Nature Energy</i> , 2020, 5, 561-568.	19.8	526
29	Evolution of the rate-limiting step: From thin film to thick Ni-rich cathodes. <i>Journal of Power Sources</i> , 2020, 454, 227966.	4.0	35
30	Communication Pressure Evolution in Constrained Rechargeable Lithium-metal Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020511.	1.3	7
31	Excellent Cycling Stability of Sodium Anode Enabled by a Stable Solid Electrolyte Interphase Formed in Ether-Based Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2001151.	7.8	60
32	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. <i>Joule</i> , 2019, 3, 1662-1676.	11.7	598
33	Cathode porosity is a missing key parameter to optimize lithium-sulfur battery energy density. <i>Nature Communications</i> , 2019, 10, 4597.	5.8	166
34	Origin of lithium whisker formation and growth under stress. <i>Nature Nanotechnology</i> , 2019, 14, 1042-1047.	15.6	211
35	Tuning Solid Electrolyte Interphase Layer Properties through the Integration of Conversion Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44204-44213.	4.0	3
36	How lithium dendrites form in liquid batteries. <i>Science</i> , 2019, 366, 426-427.	6.0	362

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37	Monolithic solidâ€“electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , 2019, 4, 796-805.	19.8	621
38	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. <i>Nature Energy</i> , 2019, 4, 551-559.	19.8	492
39	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. <i>Nature Nanotechnology</i> , 2019, 14, 594-601.	15.6	451
40	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019, 4, 180-186.	19.8	2,101
41	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. <i>Joule</i> , 2019, 3, 1094-1105.	11.7	358
42	Good Practices for Rechargeable Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A4141-A4149.	1.3	42
43	Advanced Characterization Techniques in Promoting Mechanism Understanding for Lithiumâ€“Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707543.	7.8	81
44	The role of the solid electrolyte interphase layer in preventing Li dendrite growth in solid-state batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1803-1810.	15.6	304
45	Mechanism of Formation of Li ₇ P ₃ S ₁₁ Solid Electrolytes through Liquid Phase Synthesis. <i>Chemistry of Materials</i> , 2018, 30, 990-997.	3.2	118
46	Fundamental understanding and rational design of high energy structural microbatteries. <i>Nano Energy</i> , 2018, 43, 310-316.	8.2	12
47	Detrimental Effects of Chemical Crossover from the Lithium Anode to Cathode in Rechargeable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2921-2930.	8.8	89
48	Impacts of lean electrolyte on cycle life for rechargeable Li metal batteries. <i>Journal of Power Sources</i> , 2018, 407, 53-62.	4.0	62
49	The Effect of Solvent on the Capacity Retention in a Germanium Anode for Lithium Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	1.1	4
50	High-Efficiency Lithium Metal Batteries with Fire-Retardant Electrolytes. <i>Joule</i> , 2018, 2, 1548-1558.	11.7	436
51	Hierarchical electrode architectures for high energy lithium-chalcogen rechargeable batteries. <i>Nano Energy</i> , 2018, 51, 668-679.	8.2	13
52	Minimizing Polysulfide Shuttle Effect in Lithium-Ion Sulfur Batteries by Anode Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21965-21972.	4.0	18
53	Enabling High-Energy-Density Cathode for Lithiumâ€“Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23094-23102.	4.0	67
54	Intragranular cracking as a critical barrier for high-voltage usage of layer-structured cathode for lithium-ion batteries. <i>Nature Communications</i> , 2017, 8, 14101.	5.8	654

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55	Formation of Reversible Solid Electrolyte Interface on Graphite Surface from Concentrated Electrolytes. <i>Nano Letters</i> , 2017, 17, 1602-1609.	4.5	91
56	Practical Challenges in Employing Graphene for Lithium-Ion Batteries and Beyond. <i>Small Methods</i> , 2017, 1, 1700099.	4.6	31
57	Research Progress toward the Practical Applications of Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24407-24421.	4.0	95
58	Research Progress towards Understanding the Unique Interfaces between Concentrated Electrolytes and Electrodes for Energy Storage Applications. <i>Advanced Science</i> , 2017, 4, 1700032.	5.6	363
59	Ammonium Additives to Dissolve Lithium Sulfide through Hydrogen Binding for High-Energy Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4290-4295.	4.0	74
60	Li- and Mn-Rich Cathode Materials: Challenges to Commercialization. <i>Advanced Energy Materials</i> , 2017, 7, 1601284.	10.2	383
61	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.	4.5	308
62	Suppressed oxygen extraction and degradation of LiNi _x Mn _y Co _z O ₂ cathodes at high charge cut-off voltages. <i>Nano Research</i> , 2017, 10, 4221-4231.	5.8	77
63	The interplay between solid electrolyte interface (SEI) and dendritic lithium growth. <i>Nano Energy</i> , 2017, 40, 34-41.	8.2	209
64	Restricting the Solubility of Polysulfides in Li-S Batteries Via Electrolyte Salt Selection. <i>Advanced Energy Materials</i> , 2016, 6, 1600160.	10.2	66
65	Ni and Co Segregations on Selective Surface Facets and Rational Design of Layered Lithium Transition-Metal Oxide Cathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1502455.	10.2	100
66	Investigating Side Reactions and Coating Effects on High Voltage Layered Cathodes for Lithium Ion Batteries. <i>Microscopy and Microanalysis</i> , 2016, 22, 1312-1313.	0.2	0
67	The roles of oxygen non-stoichiometry on the electrochemical properties of oxide-based cathode materials. <i>Nano Today</i> , 2016, 11, 678-694.	6.2	72
68	Interfacial behaviours between lithium ion conductors and electrode materials in various battery systems. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15266-15280.	5.2	184
69	Cathode Materials: Ni and Co Segregations on Selective Surface Facets and Rational Design of Layered Lithium Transition-Metal Oxide Cathodes (<i>Adv. Energy Mater.</i> 9/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	10.2	2
70	The Effect of Entropy and Enthalpy Changes on the Thermal Behavior of Li-Mn-Rich Layered Composite Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2016, 163, A571-A577.	1.3	19
71	Polyamidoamine dendrimer-based binders for high-loading lithium-sulfur battery cathodes. <i>Nano Energy</i> , 2016, 19, 176-186.	8.2	132
72	Understanding the Lithium Sulfur Battery System at Relevant Scales. <i>Advanced Energy Materials</i> , 2015, 5, 1501102.	10.2	93

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73	Interfacial Reaction Dependent Performance of Hollow Carbon Nanosphere S_x/C Sulfur Composite as a Cathode for Li-S Battery. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	3
74	Molecular-confinement of polysulfides within mesoscale electrodes for the practical application of lithium sulfur batteries. <i>Nano Energy</i> , 2015, 13, 267-274.	8.2	50
75	Structural and Chemical Evolution of Li- and Mn-Rich Layered Cathode Material. <i>Chemistry of Materials</i> , 2015, 27, 1381-1390.	3.2	311
76	Direct Observation of Sulfur Radicals as Reaction Media in Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A474-A478.	1.3	178
77	Batteries: Towards High-Performance Nonaqueous Redox Flow Electrolyte Via Ionic Modification of Active Species (<i>Adv. Energy Mater.</i> 1/2015). <i>Advanced Energy Materials</i> , 2015, 5, .	10.2	2
78	Probing the Degradation Mechanism of Li_2MnO_3 Cathode for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 975-982.	3.2	130
79	Atomic-Resolution Visualization of Distinctive Chemical Mixing Behavior of Ni, Co, and Mn with Li in Layered Lithium Transition-Metal Oxide Cathode Materials. <i>Chemistry of Materials</i> , 2015, 27, 5393-5401.	3.2	108
80	High performance Li-ion sulfur batteries enabled by intercalation chemistry. <i>Chemical Communications</i> , 2015, 51, 13454-13457.	2.2	55
81	Effects of structural defects on the electrochemical activation of Li_2MnO_3 . <i>Nano Energy</i> , 2015, 16, 143-151.	8.2	73
82	On the Way Toward Understanding Solution Chemistry of Lithium Polysulfides for High Energy $\text{Li}\text{-S}$ Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500113.	10.2	142
83	Following the Transient Reactions in Lithium-Sulfur Batteries Using an In Situ Nuclear Magnetic Resonance Technique. <i>Nano Letters</i> , 2015, 15, 3309-3316.	4.5	107
84	Direct Observation of the Redistribution of Sulfur and Polysulfides in $\text{Li}\text{-S}$ Batteries During the First Cycle by In Situ X-Ray Fluorescence Microscopy. <i>Advanced Energy Materials</i> , 2015, 5, 1500072.	10.2	84
85	Anodes for Rechargeable Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1402273.	10.2	423
86	High Energy Density Lithium-Sulfur Batteries: Challenges of Thick Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2015, 5, 1402290.	10.2	483
87	Towards High-Performance Nonaqueous Redox Flow Electrolyte Via Ionic Modification of Active Species. <i>Advanced Energy Materials</i> , 2015, 5, 1400678.	10.2	181
88	Failure Mechanism for Fast-Charged Lithium Metal Batteries with Liquid Electrolytes. <i>Advanced Energy Materials</i> , 2015, 5, 1400993.	10.2	540
89	Energetics of Defects on Graphene through Fluorination. <i>ChemSusChem</i> , 2014, 7, 1295-1300.	3.6	10
90	Interface modifications by anion receptors for high energy lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 250, 313-318.	4.0	74

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91	Manipulating surface reactions in lithium-sulphur batteries using hybrid anode structures. Nature Communications, 2014, 5, 3015.	5.8	290
92	Functioning Mechanism of AlF_3 Coating on the Li- and Mn-Rich Cathode Materials. Chemistry of Materials, 2014, 26, 6320-6327.	3.2	333
93	Lewis Acid-Base Interactions between Polysulfides and Metal Organic Framework in Lithium Sulfur Batteries. Nano Letters, 2014, 14, 2345-2352.	4.5	623
94	Mitigating Voltage Fade in Cathode Materials by Improving the Atomic Level Uniformity of Elemental Distribution. Nano Letters, 2014, 14, 2628-2635.	4.5	273
95	Micro-battery Development for Juvenile Salmon Acoustic Telemetry System Applications. Scientific Reports, 2014, 4, 3790.	1.6	25
96	Primary Lithium Air Batteries. , 2014, , 255-289.		2
97	Making Air Batteries Rechargeable: Material Challenges. Advanced Functional Materials, 2013, 23, 987-1004.	7.8	477
98	Materials Science and Materials Chemistry for Large Scale Electrochemical Energy Storage: From Transportation to Electrical Grid. Advanced Functional Materials, 2013, 23, 929-946.	7.8	590
99	Hierarchically structured materials for lithium batteries. Nanotechnology, 2013, 24, 424004.	1.3	30
100	Lattice Mn^{3+} Behaviors in $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Full Cells. Journal of the Electrochemical Society, 2013, 160, A1264-A1268.	1.3	35
101	Electrochemical Kinetics and Performance of Layered Composite Cathode Material $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$. Journal of the Electrochemical Society, 2013, 160, A2212-A2219.	1.3	104
102	Surface and structural stabilities of carbon additives in high voltage lithium ion batteries. Journal of Power Sources, 2013, 227, 211-217.	4.0	55
103	Dendrite-Free Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. Journal of the American Chemical Society, 2013, 135, 4450-4456.	6.6	1,736
104	Nanostructured materials for rechargeable batteries: synthesis, fundamental understanding and limitations. Current Opinion in Chemical Engineering, 2013, 2, 151-159.	3.8	7
105	Ionic liquid-enhanced solid state electrolyte interface (SEI) for lithium-sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 8464.	5.2	229
106	Interplay between two-phase and solid solution reactions in high voltage spinel cathode material for lithium ion batteries. Journal of Power Sources, 2013, 242, 736-741.	4.0	24
107	Tunable electrochemical properties of fluorinated graphene. Journal of Materials Chemistry A, 2013, 1, 7866.	5.2	74
108	Controlled Nucleation and Growth Process of $\text{Li}_2\text{S}_2/\text{Li}_2\text{S}$ in Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2013, 160, A1992-A1996.	1.3	89

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109	How to Obtain Reproducible Results for Lithium Sulfur Batteries?. Journal of the Electrochemical Society, 2013, 160, A2288-A2292.	1.3	149
110	Revisit Carbon/Sulfur Composite for Li-S Batteries. Journal of the Electrochemical Society, 2013, 160, A1624-A1628.	1.3	98
111	Enhanced Li ⁺ ion transport in LiNi _{0.5} Mn _{1.5} O ₄ through control of site disorder. Physical Chemistry Chemical Physics, 2012, 14, 13515.	1.3	167
112	Factors affecting the battery performance of anthraquinone-based organic cathode materials. Journal of Materials Chemistry, 2012, 22, 4032.	6.7	126
113	High capacity, reversible alloying reactions in SnSb/C nanocomposites for Na-ion battery applications. Chemical Communications, 2012, 48, 3321.	2.2	566
114	Effects of cell positive cans and separators on the performance of high-voltage Li-ion batteries. Journal of Power Sources, 2012, 213, 160-168.	4.0	44
115	Electrocatalysts for Nonaqueous Lithium-Air Batteries: Status, Challenges, and Perspective. ACS Catalysis, 2012, 2, 844-857.	5.5	443
116	High-Performance LiNi _{0.5} Mn _{1.5} O ₄ Spinel Controlled by Mn ³⁺ Concentration and Site Disorder. Advanced Materials, 2012, 24, 2109-2116.	11.1	434
117	Reinvestigation on the state-of-the-art nonaqueous carbonate electrolytes for 5V Li-ion battery applications. Journal of Power Sources, 2012, 213, 304-316.	4.0	69
118	A Soft Approach to Encapsulate Sulfur: Polyaniline Nanotubes for Lithium-Sulfur Batteries with Long Cycle Life. Advanced Materials, 2012, 24, 1176-1181.	11.1	959
119	Hierarchically Porous Graphene as a Lithium-Air Battery Electrode. Nano Letters, 2011, 11, 5071-5078.	4.5	943
120	Optimization of mesoporous carbon structures for lithium-sulfur battery applications. Journal of Materials Chemistry, 2011, 21, 16603.	6.7	417
121	Reaction mechanisms for the limited reversibility of Li-O ₂ chemistry in organic carbonate electrolytes. Journal of Power Sources, 2011, 196, 9631-9639.	4.0	198
122	Hybrid CFx-Ag ₂ V ₄ O ₁₁ as a high-energy, power density cathode for application in an underwater acoustic microtransmitter. Electrochemistry Communications, 2011, 13, 1344-1344.	2.3	45
123	Investigation on the charging process of Li ₂ O ₂ -based air electrodes in Li-O ₂ batteries with organic carbonate electrolytes. Journal of Power Sources, 2011, 196, 3894-3899.	4.0	229
124	Electrochemically Induced High Capacity Displacement Reaction of PEO/MoS ₂ /Graphene Nanocomposites with Lithium. Advanced Functional Materials, 2011, 21, 2840-2846.	7.8	491
125	Investigation of the rechargeability of Li-O ₂ batteries in non-aqueous electrolyte. Journal of Power Sources, 2011, 196, 5674-5678.	4.0	197
126	Ambient operation of Li/Air batteries. Journal of Power Sources, 2010, 195, 4332-4337.	4.0	189

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127	High Capacity Pouch-Type Li-Air Batteries. Journal of the Electrochemical Society, 2010, 157, A760.	1.3	67
128	Optimization of Air Electrode for Li/Air Batteries. Journal of the Electrochemical Society, 2010, 157, A487.	1.3	308
129	Hybrid Air-Electrode for Li/Air Batteries. Journal of the Electrochemical Society, 2010, 157, A294.	1.3	50
130	Stabilization of Silicon Anode for Li-Ion Batteries. Journal of the Electrochemical Society, 2010, 157, A1047.	1.3	108
131	Optimization of Nonaqueous Electrolytes for Primary Lithium/Air Batteries Operated in Ambient Environment. Journal of the Electrochemical Society, 2009, 156, A773.	1.3	166
132	Systematic Evaluation of Carbon Hosts for High-Energy Rechargeable Lithium-Metal Batteries. ACS Energy Letters, 0, , 1550-1559.	8.8	20
133	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 0, , 1399-1404.	8.8	228