

# Kang Xu

## 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.

263  
papers

35,890  
citations

95  
h-index

187  
g-index

279  
ext. papers

43,888  
ext. citations

14  
avg, IF

8.21  
L-index

#	Paper	IF	Citations
263	Expanding the low-temperature and high-voltage limits of aqueous lithium-ion battery. <i>Energy Storage Materials</i> , <b>2022</b> , 45, 903-910	19.4	10
262	Austen Angell's legacy in electrolyte research. <i>Journal of Non-Crystalline Solids: X</i> , <b>2022</b> , 14, 100088	2.5	1
261	Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 461-470	20.1	11
260	Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. <i>One Earth</i> , <b>2022</b> , 5, 413-421	8.1	2
259	Quantifying Lithium Ion Exchange in Solid Electrolyte Interphase (SEI) on Graphite Anode Surfaces. <i>Inorganics</i> , <b>2022</b> , 10, 64	2.9	
258	Navigating the minefield of battery literature. <i>Communications Materials</i> , <b>2022</b> , 3,	6	4
257	Quantitatively analyzing the failure processes of rechargeable Li metal batteries. <i>Science Advances</i> , <b>2021</b> , 7, eabj3423	14.3	17
256	Aqueous interphase formed by CO brings electrolytes back to salt-in-water regime. <i>Nature Chemistry</i> , <b>2021</b> , 13, 1061-1069	17.6	14
255	Copper-coordinated cellulose ion conductors for solid-state batteries. <i>Nature</i> , <b>2021</b> , 598, 590-596	50.4	49
254	A Thermoconductometric Study of Transient Behavior of Liquid Electrolytes at Phase Transition. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 23029-23040	3.8	1
253	Quantifying and Suppressing Proton Intercalation to Enable High-Voltage Zn-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102016	21.8	8
252	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12438-12445	16.4	23
251	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1839-1848	20.1	53
250	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12546-12553	3.6	1
249	Poor Stability of Li CO in the Solid Electrolyte Interphase of a Lithium-Metal Anode Revealed by Cryo-Electron Microscopy. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100404	24	37
248	Crossroads in the renaissance of rechargeable aqueous zinc batteries. <i>Materials Today</i> , <b>2021</b> , 45, 191-212	11.8	48
247	Hydrolysis of LiPF <sub>6</sub> -Containing Electrolyte at High Voltage. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2096-2102	20.1	31

246	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 3066	17.4	21
245	Novel Low-Temperature Electrolyte Using Isoxazole as the Main Solvent for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24995-25001	9.5	11
244	Aqueous lithium-ion batteries <b>2021</b> , 3, 721		11
243	Fluorinated interphase enables reversible aqueous zinc battery chemistries. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 902-910	28.7	133
242	Tale of Three Phosphate Additives for Stabilizing NCM811/Graphite Pouch Cells: Significance of Molecular Structure-Reactivity in Dictating Interphases and Cell Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29676-29690	9.5	8
241	Synthesis and Electrochemical Properties of Aluminum Hexafluorophosphate. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5903-5908	6.4	4
240	A Polymer-in-Salt Electrolyte with Enhanced Oxidative Stability for Lithium Metal Polymer Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31583-31593	9.5	3
239	Electrolytes: From a Thorn Comes a Rose, and from a Rose, a Thorn. <i>Israel Journal of Chemistry</i> , <b>2021</b> , 61, 85-93	3.4	2
238	Identification of LiH and nanocrystalline LiF in the solid-electrolyte interphase of lithium metal anodes. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 549-554	28.7	64
237	A rechargeable zinc-air battery based on zinc peroxide chemistry. <i>Science</i> , <b>2021</b> , 371, 46-51	33.3	185
236	Correlating Li-Ion Solvation Structures and Electrode Potential Temperature Coefficients. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2264-2271	16.4	22
235	Structural origin of the high-voltage instability of lithium cobalt oxide. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 599-605	28.7	42
234	Cation-Dependent Interfacial Structures and Kinetics for Outer-Sphere Electron-Transfer Reactions. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4397-4411	3.8	13
233	Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. <i>Jacs Au</i> , <b>2021</b> , 1, 1674-1687		24
232	Stabilizing the Solid-Electrolyte Interphase with Polyacrylamide for High-Voltage Aqueous Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22812-22817	16.4	8
231	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7315-7336	9.6	10
230	Stabilizing the Solid-Electrolyte Interphase with Polyacrylamide for High-Voltage Aqueous Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22994	3.6	2
229	The mystery and promise of multivalent metal-ion batteries. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 29, 100819	7.2	3

228	Simultaneous Formation of Interphases on both Positive and Negative Electrodes in High-Voltage Aqueous Lithium-Ion Batteries. <i>Small</i> , <b>2021</b> , e2104986	11	1
227	Origin of Unusual Acidity and Li Diffusivity in a Series of Water-in-Salt Electrolytes. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 5284-5291	3.4	14
226	Nonpassivated Silicon Anode Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26593-26600	9.5	18
225	Highly safe and cyclable Li-metal batteries with vinylene carbonate electrolyte. <i>Nano Energy</i> , <b>2020</b> , 74, 104860	17.1	28
224	Harnessing the surface structure to enable high-performance cathode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 4667-4680	58.5	49
223	Gel electrolyte for a 4V flexible aqueous lithium-ion battery. <i>Journal of Power Sources</i> , <b>2020</b> , 469, 228378	8.9	11
222	Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 12550-12557	11.5	103
221	Critical Factors Dictating Reversibility of the Zinc Metal Anode. <i>Energy and Environmental Materials</i> , <b>2020</b> , 3, 516-521	13	46
220	Compositions and Formation Mechanisms of Solid-Electrolyte Interphase on Microporous Carbon/Sulfur Cathodes. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3765-3775	9.6	17
219	New Lithium Salt Forms Interphases Suppressing Both Li Dendrite and Polysulfide Shuttling. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903937	21.8	35
218	A 63 m Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 968-974	20.1	106
217	Mechanism Study of Unsaturated Tripropargyl Phosphate as an Efficient Electrolyte Additive Forming Multifunctional Interphases in Lithium Ion and Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10443-10451	9.5	26
216	Uncharted Waters: Super-Concentrated Electrolytes. <i>Joule</i> , <b>2020</b> , 4, 69-100	27.8	153
215	Real-time mass spectrometric characterization of the solid-electrolyte interphase of a lithium-ion battery. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 224-230	28.7	156
214	Altering the Electrochemical Pathway of Sulfur Chemistry with Oxygen for High Energy Density and Low Shuttling in a Na/S Battery. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1070-1076	20.1	13
213	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , <b>2020</b> , 20, 4029-4037	11.5	47
212	Mobile Ions in Composite Solids. <i>Chemical Reviews</i> , <b>2020</b> , 120, 4169-4221	68.1	105
211	New Concepts in Electrolytes. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6783-6819	68.1	267

210	A Lithium-Organic Primary Battery. <i>Small</i> , <b>2020</b> , 16, e1906462	11	21
209	Deciphering the paradox between the Co-intercalation of sodium-solvent into graphite and its irreversible capacity. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 32-39	19.4	33
208	Improving Electrochemical Stability and Low-Temperature Performance with Water/Acetonitrile Hybrid Electrolytes. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902654	21.8	83
207	High-Voltage Aqueous Na-Ion Battery Enabled by Inert-Cation-Assisted Water-in-Salt Electrolyte. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904427	24	128
206	Fluorinated hybrid solid-electrolyte-interphase for dendrite-free lithium deposition. <i>Nature Communications</i> , <b>2020</b> , 11, 93	17.4	164
205	Phase Diagram and Conductivity of Zn(TFSI) <sub>2</sub> H <sub>2</sub> O Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25249-25253	3.8	5
204	Realizing high zinc reversibility in rechargeable batteries. <i>Nature Energy</i> , <b>2020</b> , 5, 743-749	62.3	259
203	Nanoscale Relaxation in "Water-in-Salt" and "Water-in-Bisalt" Electrolytes. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7279-7284	6.4	7
202	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23180-23187	16.4	12
201	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23380-23387	3.6	6
200	Enhanced cycling stability of high-voltage lithium metal batteries with a trifunctional electrolyte additive. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22054-22064	13	23
199	500 Wh kg Class Li Metal Battery Enabled by a Self-Organized Core-Shell Composite Anode. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004793	24	49
198	Ultrafast solid-liquid intercalation enabled by targeted microwave energy delivery. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	7
197	Phase Transformation of Lithium-rich Oxide Cathode in Full Cell and its Suppression by Solid Electrolyte Interphase on Graphite Anode. <i>Energy and Environmental Materials</i> , <b>2020</b> , 3, 19-28	13	10
196	Quantifying inactive lithium in lithium metal batteries. <i>Nature</i> , <b>2019</b> , 572, 511-515	50.4	467
195	Bisalt ether electrolytes: a pathway towards lithium metal batteries with Ni-rich cathodes. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 780-794	35.4	196
194	Lithium Bis(oxalate)borate Reinforces the Interphase on Li-Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20854-20863	9.5	33
193	Aqueous Li-ion battery enabled by halogen conversion-intercalation chemistry in graphite. <i>Nature</i> , <b>2019</b> , 569, 245-250	50.4	378

192	Reclaiming graphite from spent lithium ion batteries ecologically and economically. <i>Electrochimica Acta</i> , <b>2019</b> , 313, 423-431	6.7	53
191	Insights into the Interfacial Instability between Carbon-Coated SiO Anode and Electrolyte in Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	15
190	Identifying the components of the solid-electrolyte interphase in Li-ion batteries. <i>Nature Chemistry</i> , <b>2019</b> , 11, 789-796	17.6	181
189	Stabilizing a High-Voltage Lithium-Rich Layered Oxide Cathode with a Novel Electrolyte Additive. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28841-28850	9.5	36
188	Current Trends in Electrolytes. <i>Electrochemical Society Interface</i> , <b>2019</b> , 28, 47-47	3.6	1
187	Understanding and Suppressing the Destructive Cobalt(II) Species in Graphite Interphase. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31490-31498	9.5	11
186	Overlooked electrolyte destabilization by manganese (II) in lithium-ion batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 3423	17.4	66
185	Polymer-in-Quasi-Ionic Liquid Electrolytes for High-Voltage Lithium Metal Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902108	21.8	39
184	A Long Journey of Lithium: From the Big Bang to Our Smartphones. <i>Energy and Environmental Materials</i> , <b>2019</b> , 2, 229-233	13	29
183	Interfacially Induced Cascading Failure in Graphite-Silicon Composite Anodes. <i>Advanced Science</i> , <b>2019</b> , 6, 1801007	13.6	45
182	Perspective Fluorinating Interphases. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5184-A5186	3.9	78
181	In situ quantification of interphasial chemistry in Li-ion battery. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 50-56	28.7	235
180	How electrolyte additives work in Li-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 208-215	19.4	42
179	Insight on lithium metal anode interphasial chemistry: Reduction mechanism of cyclic ether solvent and SEI film formation. <i>Energy Storage Materials</i> , <b>2019</b> , 17, 366-373	19.4	59
178	A carbonate-free, sulfone-based electrolyte for high-voltage Li-ion batteries. <i>Materials Today</i> , <b>2018</b> , 21, 341-353	21.8	171
177	Highly reversible zinc metal anode for aqueous batteries. <i>Nature Materials</i> , <b>2018</b> , 17, 543-549	27	1128
176	Long cycle life and high rate sodium-ion chemistry for hard carbon anodes. <i>Energy Storage Materials</i> , <b>2018</b> , 13, 274-282	19.4	93
175	Deciphering the Ethylene Carbonate-Propylene Carbonate Mystery in Li-Ion Batteries. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 282-289	24.3	145

174	Investigation of Ion-Solvent Interactions in Nonaqueous Electrolytes Using in Situ Liquid SIMS. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3341-3348	7.8	19
173	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. <i>CheM</i> , <b>2018</b> , 4, 174-185	16.2	435
172	Breathing and oscillating growth of solid-electrolyte-interphase upon electrochemical cycling. <i>Chemical Communications</i> , <b>2018</b> , 54, 814-817	5.8	33
171	An artificial interphase enables reversible magnesium chemistry in carbonate electrolytes. <i>Nature Chemistry</i> , <b>2018</b> , 10, 532-539	17.6	209
170	Interphases in Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703082	21.8	137
169	Correlating Li-Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1739-1745	6.4	16
168	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. <i>Joule</i> , <b>2018</b> , 2, 927-937	23.78	194
167	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11978-11981	16.4	84
166	Multinuclear magnetic resonance investigation of cation-anion and anion-solvent interactions in carbonate electrolytes. <i>Journal of Power Sources</i> , <b>2018</b> , 399, 215-222	8.9	11
165	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12154-12157	3.6	10
164	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 715-722	28.7	606
163	Converting detrimental HF in electrolytes into a highly fluorinated interphase on cathodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17642-17652	13	70
162	Designing Low Impedance Interface Films Simultaneously on Anode and Cathode for High Energy Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800802	21.8	137
161	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. <i>CheM</i> , <b>2018</b> , 4, 1877-1892	16.2	348
160	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. <i>Nature Communications</i> , <b>2018</b> , 9, 2324	17.4	86
159	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI -DME Electrolyte. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704313	24	90
158	A rechargeable aqueous Zn <sup>2+</sup> -battery with high power density and a long cycle-life. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3168-3175	35.4	182
157	Before Li Ion Batteries. <i>Chemical Reviews</i> , <b>2018</b> , 118, 11433-11456	68.1	956

156	Understanding Thermodynamic and Kinetic Contributions in Expanding the Stability Window of Aqueous Electrolytes. <i>Chem</i> , <b>2018</b> , 4, 2872-2882	16.2	119
155	Manipulating electrolyte and solid electrolyte interphase to enable safe and efficient Li-S batteries. <i>Nano Energy</i> , <b>2018</b> , 50, 431-440	17.1	84
154	Diethyl(thiophen-2-ylmethyl)phosphonate: a novel multifunctional electrolyte additive for high voltage batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10990-11004	13	74
153	Phase Diagram, Conductivity, and Glass Transition of LiTFSI/2O Binary Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 16624-16629	3.8	35
152	Conductivity, Viscosity, and Their Correlation of a Super-Concentrated Aqueous Electrolyte. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2149-2153	3.8	54
151	Manipulating interphases in batteries. <i>National Science Review</i> , <b>2017</b> , 4, 19-20	10.8	10
150	Effects of Solvent Composition on Liquid Range, Glass Transition, and Conductivity of Electrolytes of a (Li, Cs)PF <sub>6</sub> Salt in EC-PC-EMC Solvents. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 11178-11183	3.8	9
149	Wide-Temperature Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18826-18835	9.5	86
148	Performance of wide temperature range electrolytes for Li-Ion capacitor pouch cells. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 205-214	8.9	19
147	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6197-6202	11.5	100
146	Lithium-Ion Batteries and Materials <b>2017</b> , 449-494		10
145	High-Voltage Aqueous Magnesium Ion Batteries. <i>ACS Central Science</i> , <b>2017</b> , 3, 1121-1128	16.8	168
144	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. <i>ACS Nano</i> , <b>2017</b> , 11, 10462-10471	16.7	193
143	Flexible Aqueous Li-Ion Battery with High Energy and Power Densities. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701972	24	121
142	Reversible S/MgS Redox Chemistry in a MgTFSI/MgCl <sub>2</sub> /DME Electrolyte for Rechargeable Mg/S Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13526-13530	16.4	102
141	Reversible S <sub>0</sub> /MgS <sub>x</sub> Redox Chemistry in a MgTFSI <sub>2</sub> /MgCl <sub>2</sub> /DME Electrolyte for Rechargeable Mg/S Batteries. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13711-13715	3.6	41
140	4.0V Aqueous Li-Ion Batteries. <i>Joule</i> , <b>2017</b> , 1, 122-132	27.8	324
139	Water-in-Salt Electrolyte Makes Aqueous Sodium-Ion Battery Safe, Green, and Long-Lasting. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701189	21.8	335



138	Understanding How Nitriles Stabilize Electrolyte/Electrode Interface at High Voltage. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 6048-6052	6.4	45
137	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18670-18680	16.4	227
136	Li-Desolvation Dictating Lithium-Ion Battery's Low-Temperature Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42761-42768	9.5	95
135	Modeling Insight into Battery Electrolyte Electrochemical Stability and Interfacial Structure. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 2886-2894	24.3	150
134	Solvation behavior of carbonate-based electrolytes in sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 19, 574-586	3.6	108
133	Stabilizing high voltage LiCoO <sub>2</sub> cathode in aqueous electrolyte with interphase-forming additive. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3666-3673	35.4	140
132	Ectopic expression of Cripto-1 in transgenic mouse embryos causes hemorrhages, fatal cardiac defects and embryonic lethality. <i>Scientific Reports</i> , <b>2016</b> , 6, 34501	4.9	5
131	Activation of Oxygen-Stabilized Sulfur for Li and Na Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 745-752	15.6	66
130	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by "Water-in-Bisalt" Electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7136-41	16.4	435
129	Pre-Lithiation of Li(Ni <sub>1-x-y</sub> Mn <sub>x</sub> Co <sub>y</sub> )O <sub>2</sub> Materials Enabling Enhancement of Performance for Li-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15361-8	9.5	26
128	In situ lithiated FeF <sub>3</sub> /C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 435-442	8.9	52
127	Water-in-Salt Electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6639-6644	13	140
126	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by Water-in-Bisalt Electrolyte. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7252-7257	3.6	80
125	Targeted Disruption of miR-17-92 Impairs Mouse Spermatogenesis by Activating mTOR Signaling Pathway. <i>Medicine (United States)</i> , <b>2016</b> , 95, e2713	1.8	38
124	A bio-facilitated synthetic route for nano-structured complex electrode materials. <i>Green Chemistry</i> , <b>2016</b> , 18, 2619-2624	10	13
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118	Effect of Al <sub>2</sub> O <sub>3</sub> Coating on Stabilizing LiNi <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> O <sub>2</sub> Cathodes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6146-6154	9.6	149
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114	(Invited) Challenges with Quantum Chemistry-Based Screening of Electrochemical Stability of Lithium Battery Electrolytes. <i>ECS Transactions</i> , <b>2015</b> , 69, 113-123	1	15
113	"Water-in-salt" electrolyte enables high-voltage aqueous lithium-ion chemistries. <i>Science</i> , <b>2015</b> , 350, 938-43	33.3	1717
112	Hybrid Mg <sup>2+</sup> /Li <sup>+</sup> Battery with Long Cycle Life and High Rate Capability. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401507	21.8	128
111	Ion Solvation and the Search for a Correlation with Electrode Passivation. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1740, 49		
110	Confined Sulfur in Microporous Carbon Renders Superior Cycling Stability in Li/S Batteries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4312-4320	15.6	232
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108	Atomic force microscopy studies on molybdenum disulfide flakes as sodium-ion anodes. <i>Nano Letters</i> , <b>2015</b> , 15, 1018-24	11.5	99
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