

# Unlocking the Potential of Cation-Disordered Oxides fo

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Electrode Nanostructures in Lithium-Based Batteries. <i>Advanced Science</i> , 2014, 1, 1400012.	5.6	148
4	Direct observation of the structural and electronic changes of Li <sub>2</sub> MnO <sub>3</sub> during electron irradiation. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	24
5	Metastable amorphous chromium-vanadium oxide nanoparticles with superior performance as a new lithium battery cathode. <i>Nano Research</i> , 2014, 7, 1604-1612.	5.8	21
6	Facet-Dependent Disorder in Pristine High-Voltage Lithium-Manganese-Rich Cathode Material. <i>ACS Nano</i> , 2014, 8, 12710-12716.	7.3	71
7	An intuitive and efficient method for cell voltage prediction of lithium and sodium-ion batteries. <i>Nature Communications</i> , 2014, 5, 5559.	5.8	39
8	Structural and Electrochemical Study of the Li-Mn-Ni Oxide System within the Layered Single Phase Region. <i>Chemistry of Materials</i> , 2014, 26, 7059-7066.	3.2	53
9	The Configurational Space of Rocksalt-Type Oxides for High-Capacity Lithium Battery Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1400478.	10.2	256
10	Tuning charge-discharge induced unit cell breathing in layer-structured cathode materials for lithium-ion batteries. <i>Nature Communications</i> , 2014, 5, 5381.	5.8	180
11	A Novel Surface Treatment Method and New Insight into Discharge Voltage Deterioration for High-Performance 0.4Li <sub>2</sub> MnO <sub>3</sub> ·0.6LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathode Materials. <i>Advanced Energy Materials</i> , 2014, 4, 1400631.	10.2	196
12	Two-dimensional layered transition metal disulphides for effective encapsulation of high-capacity lithium sulphide cathodes. <i>Nature Communications</i> , 2014, 5, 5017.	5.8	530
13	The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, Li <sub>2</sub> C <sub>6</sub> O <sub>6</sub> , Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3086-3092.	2.1	81
14	Unraveling the Voltage-Fade Mechanism in High-Energy-Density Lithium-Ion Batteries: Origin of the Tetrahedral Cations for Spinel Conversion. <i>Chemistry of Materials</i> , 2014, 26, 6272-6280.	3.2	236
15	Electron-Water Interactions and Implications for Liquid Cell Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22373-22382.	1.5	519
16	Mesoporous VO <sub>2</sub> nanowires with excellent cycling stability and enhanced rate capability for lithium batteries. <i>RSC Advances</i> , 2014, 4, 33332-33337.	1.7	47
17	Highly enhanced lithium storage capability of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> by coating with Li <sub>2</sub> TiO <sub>3</sub> for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18256-18262.	5.2	93
18	Superior Long-Term Energy Retention and Volumetric Energy Density for Li-Rich Cathode Materials. <i>Nano Letters</i> , 2014, 14, 5965-5972.	4.5	145
19	Better than crystalline: amorphous vanadium oxide for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18208-18214.	5.2	260
20	Enhanced Li Storage Performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Coated 0.4Li <sub>2</sub> MnO <sub>3</sub> ·0.6LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathode Materials for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16888-16894.		65

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21	Resolving and Quantifying Nanoscaled Phases in Amorphous FeF <sub>3</sub> by Pair Distribution Function and Mössbauer Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 14039-14043.	1.5	10
22	K <sup>+</sup> -Doped Li <sub>1.2</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> : A Novel Cathode Material with an Enhanced Cycling Stability for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 10330-10341.	4.0	332
23	Nanoscale Morphological and Chemical Changes of High Voltage Lithium-Manganese Rich NMC Composite Cathodes with Cycling. Nano Letters, 2014, 14, 4334-4341.	4.5	163
24	Magnesium Anode for Chloride Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 10997-11000.	4.0	69
25	Surface Engineering and Design Strategy for Surface-Amorphized TiO <sub>2</sub> @Graphene Hybrids for High Power Li-Ion Battery Electrodes. Advanced Science, 2015, 2, 1500027.	5.6	182
26	Considering Critical Factors of Li-rich Cathode and Si Anode Materials for Practical Li-ion Cell Applications. Small, 2015, 11, 4058-4073.	5.2	67
28	AlF <sub>3</sub> Surface-Coated Li[Li <sub>0.2</sub> Ni <sub>0.17</sub> Co <sub>0.07</sub> Mn <sub>0.56</sub> ]O <sub>2</sub> Nanoparticles with Superior Electrochemical Performance for Lithium-Ion Batteries. ChemSusChem, 2015, 8, 2544-2550.	3.6	51
29	The Role of Intentionally Introduced Defects on Electrode Materials for Alkali-Ion Batteries. Chemistry - an Asian Journal, 2015, 10, 1608-1617.	1.7	69
30	Lithium-Excess Research of Cathode Material Li <sub>2</sub> MnTiO <sub>4</sub> for Lithium-Ion Batteries. Nanomaterials, 2015, 5, 1985-1994.	1.9	27
31	Fast and Large Lithium Storage in 3D Porous VN Nanowires@Graphene Composite as a Superior Anode Toward High-Performance Hybrid Supercapacitors. Advanced Functional Materials, 2015, 25, 2270-2278.	7.8	379
32	Recent Advances on the Understanding of Structural and Composition Evolution of LMR Cathodes for Li-ion Batteries. Frontiers in Energy Research, 2015, 3, .	1.2	19
33	Aerosol-spray diverse mesoporous metal oxides from metal nitrates. Scientific Reports, 2015, 5, 9923.	1.6	42
34	The role of nanoscale-range vanadium treatment in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> cathode materials for Li-ion batteries at elevated temperatures. Journal of Materials Chemistry A, 2015, 3, 13453-13460.	5.2	131
35	Enhanced electrochemical performance by facile oxygen vacancies from lower valence-state doping for ramsdellite-MnO <sub>2</sub> . Journal of Materials Chemistry A, 2015, 3, 12461-12467.	5.2	54
36	High-capacity electrode materials for rechargeable lithium batteries: Li <sub>3</sub> NbO <sub>4</sub> -based system with cation-disordered rocksalt structure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7650-7655.	3.3	400
37	Li <sup>+</sup> intercalation in isostructural Li <sub>2</sub> VO <sub>3</sub> and Li <sub>2</sub> VO <sub>2</sub> F with O <sup>2-</sup> and mixed O <sup>2-</sup> /F <sup>-</sup> anions. Physical Chemistry Chemical Physics, 2015, 17, 17288-17295.	1.3	67
38	Post-lithium-ion battery chemistries for hybrid electric vehicles and battery electric vehicles. , 2015, , 127-172.		2
39	Improved Voltage and Cycling for Li <sup>+</sup> Intercalation in High-Capacity Disordered Oxyfluoride Cathodes. Advanced Science, 2015, 2, 1500128.	5.6	56

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41	Visualization of O-O peroxo-like dimers in high-capacity layered oxides for Li-ion batteries. <i>Science</i> , 2015, 350, 1516-1521.	6.0	659
42	Rice perception of symbiotic arbuscular mycorrhizal fungi requires the karrikin receptor complex. <i>Science</i> , 2015, 350, 1521-1524.	6.0	191
43	First-principles study of lithium adsorption and diffusion on graphene: the effects of strain. <i>Materials Research Express</i> , 2015, 2, 105016.	0.8	20
44	Activation Mechanism of $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ : Surface and Bulk Operando Electrochemical, Differential Electrochemical Mass Spectrometry, and X-ray Diffraction Analyses. <i>Chemistry of Materials</i> , 2015, 27, 526-536.	3.2	198
45	Atomic insight into electrochemical inactivity of lithium chromate ( $\text{LiCrO}_2$ ): Irreversible migration of chromium into lithium layers in surface regions. <i>Journal of Power Sources</i> , 2015, 273, 1218-1225.	4.0	45
46	A New Coating Method for Alleviating Surface Degradation of $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ Cathode Material: Nanoscale Surface Treatment of Primary Particles. <i>Nano Letters</i> , 2015, 15, 2111-2119.	4.5	452
47	Stable Alkali Metal Ion Intercalation Compounds as Optimized Metal Oxide Nanowire Cathodes for Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 2180-2185.	4.5	160
48	Recent Achievements on Inorganic Electrode Materials for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 3140-3156.	6.6	461
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52	Structural and Chemical Evolution of Li- and Mn-Rich Layered Cathode Material. <i>Chemistry of Materials</i> , 2015, 27, 1381-1390.	3.2	311
53	Disordered Lithium-Rich Oxyfluoride as a Stable Host for Enhanced $\text{Li}^+$ Intercalation Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1401814.	10.2	162
54	Recent progress in theoretical and computational investigations of Li-ion battery materials and electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4799-4844.	1.3	237
55	Probing the Degradation Mechanism of $\text{Li}_2\text{MnO}_3$ Cathode for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 975-982.	3.2	130
56	Pure Single-Crystalline $\text{Na}_{1.1}\text{V}_3\text{O}_{7.9}$ Nanobelts as Superior Cathode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Science</i> , 2015, 2, 1400018.	5.6	110
57	Enhanced electrochemical performance of $\text{LiMn}_2\text{O}_4$ cathode with a $\text{Li}_{0.34}\text{La}_{0.51}\text{TiO}_3$ -coated layer. <i>RSC Advances</i> , 2015, 5, 17592-17600.	1.7	14

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59	Surface-modified Li[Li <sub>0.2</sub> Ni <sub>0.17</sub> Co <sub>0.07</sub> Mn <sub>0.56</sub> ]O <sub>2</sub> nanoparticles with MgF <sub>2</sub> as cathode for Li-ion battery. Solid State Ionics, 2015, 278, 85-90.	1.3	40
60	Rational Composition Optimization of the Lithium-Rich Li <sub>3</sub> VOCl <sub>1-x</sub> Br <sub>x</sub> Anti-Perovskite Superionic Conductors. Chemistry of Materials, 2015, 27, 3749-3755.	3.2	130
61	Improved electrochemical performance of spinel LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> through MgF <sub>2</sub> nano-coating. Nanoscale, 2015, 7, 15609-15617.	2.8	65
62	Promotional recyclable Li-ion batteries by a magnetic binder with anti-vibration and non-fatigue performance. Journal of Materials Chemistry A, 2015, 3, 15403-15407.	5.2	11
63	Probing Reversible Multielectron Transfer and Structure Evolution of Li <sub>1.2</sub> Cr <sub>0.4</sub> Mn <sub>0.4</sub> O <sub>2</sub> Cathode Material for Li-Ion Batteries in a Voltage Range of 1.0~4.8 V. Chemistry of Materials, 2015, 27, 5238-5252.	3.2	57
64	Three dimensional architecture of carbon wrapped multilayer Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F nanocubes embedded in graphene for improved sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17563-17568.	5.2	91
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66	Facile synthesis of mesoporous V <sub>2</sub> O <sub>5</sub> nanosheets with superior rate capability and excellent cycling stability for lithium ion batteries. Journal of Power Sources, 2015, 294, 1-7.	4.0	91
67	Balancing stability and specific energy in Li-rich cathodes for lithium ion batteries: a case study of a novel Li~Mn~Ni~Co oxide. Journal of Materials Chemistry A, 2015, 3, 10592-10602.	5.2	62
68	Roles of transition metals interchanging with lithium in electrode materials. Physical Chemistry Chemical Physics, 2015, 17, 14064-14070.	1.3	27
69	Theoretical capacity achieved in a LiMn <sub>0.5</sub> Fe <sub>0.4</sub> Mg <sub>0.1</sub> BO <sub>3</sub> cathode by using topological disorder. Energy and Environmental Science, 2015, 8, 1790-1798.	15.6	27
70	Nickel-Rich Layered Lithium Transition-Metal Oxide for High-Energy Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 4440-4457.	7.2	1,512
71	Rational material design for ultrafast rechargeable lithium-ion batteries. Chemical Society Reviews, 2015, 44, 5926-5940.	18.7	857
72	Characterization of Disordered Li <sub>1+x</sub> Ti <sub>2-x</sub> Fe <sub>3-x</sub> O <sub>2</sub> as Positive Electrode Materials in Li-Ion Batteries Using Percolation Theory. Chemistry of Materials, 2015, 27, 7751-7756.	3.2	83
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75	Elucidating the Role of Defects for Electrochemical Intercalation in Sodium Vanadium Oxide. Chemistry of Materials, 2015, 27, 7082-7090.	3.2	28

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76	Review of Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2447-A2467.	1.3	141
77	Three-dimensional ZnMn <sub>2</sub> O <sub>4</sub> /porous carbon framework from petroleum asphalt for high performance lithium-ion battery. <i>Electrochimica Acta</i> , 2015, 180, 164-172.	2.6	73
78	A disordered rock-salt Li-excess cathode material with high capacity and substantial oxygen redox activity: Li <sub>1.25</sub> Nb <sub>0.25</sub> Mn <sub>0.5</sub> O <sub>2</sub> . <i>Electrochemistry Communications</i> , 2015, 60, 70-73.	2.3	145
79	Facile synthesis of manganese carbonate quantum dots/Ni(HCO <sub>3</sub> ) <sub>2</sub> ·xH <sub>2</sub> O/MnCO <sub>3</sub> composites as advanced cathode materials for high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22102-22117.	5.2	127
80	Anomalous Jahn-Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3325-3335.	15.6	175
81	Synthesis and Electrochemical Properties of Spherical Nano-Structured and Nano-Agglomerated Li <sub>1.2</sub> Mn <sub>0.6</sub> Ni <sub>0.2</sub> O <sub>2</sub> Cathode Materials for Lithium-Ion Batteries. <i>Integrated Ferroelectrics</i> , 2015, 164, 52-59.	0.3	3
82	A new class of high capacity cation-disordered oxides for rechargeable lithium batteries: Li <sub>2</sub> Ni <sub>2</sub> Ti <sub>2</sub> Mo oxides. <i>Energy and Environmental Science</i> , 2015, 8, 3255-3265.	15.6	224
83	A Study on Storage Characteristics of Pristine Li-rich Layered Oxide Li <sub>1.20</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> : Effect of Storage Temperature and Duration. <i>Electrochimica Acta</i> , 2015, 154, 249-258.	2.6	30
84	Oxygen-participated electrochemistry of new lithium-rich layered oxides Li <sub>3</sub> MRuO <sub>5</sub> (M = Mn, Fe). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3749-3760.	1.3	22
85	Spinel compounds as multivalent battery cathodes: a systematic evaluation based on ab initio calculations. <i>Energy and Environmental Science</i> , 2015, 8, 964-974.	15.6	430
86	Designing New Lithium-Excess Cathode Materials from Percolation Theory: Nanohighways in Li <sub>4-x</sub> Ni <sub>2</sub> Sb <sub>3</sub> O <sub>2</sub> . <i>Nano Letters</i> , 2015, 15, 596-602.	4.5	54
87	Evolution of Lattice Structure and Chemical Composition of the Surface Reconstruction Layer in Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Cathode Material for Lithium Ion Batteries. <i>Nano Letters</i> , 2015, 15, 514-522.	4.5	261
88	Insight into the Atomic Structure of Cycled Lithium-Rich Layered Oxide Li <sub>1.20</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> Using HAADF STEM and Electron Nanodiffraction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 75-83.	1.5	117
89	Origin of voltage decay in high-capacity layered oxide electrodes. <i>Nature Materials</i> , 2015, 14, 230-238.	13.3	757
90	Origin of electrochemical activity in nano-Li <sub>2</sub> MnO <sub>3</sub> ; stabilization via a $\delta$ -point defect scaffold. <i>Nanoscale</i> , 2015, 7, 1167-1180.	2.8	20
91	Ni-induced stepwise capacity increase in Ni-poor Li-rich cathode materials for high performance lithium ion batteries. <i>Nano Research</i> , 2015, 8, 808-820.	5.8	25
92	Polypyrrole-coated Graphite Fluorides with High Energy and High Power Densities for Li/CF battery. <i>International Journal of Electrochemical Science</i> , 2016, 11, 6413-6422.	0.5	20
93	Computational Design and Preparation of Cation-Disordered Oxides for High-Energy-Density Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600488.	10.2	93

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94	Low-temperature Cationic Rearrangement in a Bulk Metal Oxide. <i>Angewandte Chemie</i> , 2016, 128, 10016-10021.	1.6	3
95	Low-temperature Cationic Rearrangement in a Bulk Metal Oxide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9862-9867.	7.2	20
96	Lithiation-driven structural transition of VO <sub>2</sub> F into disordered rock-salt Li <sub>x</sub> VO <sub>2</sub> F. <i>RSC Advances</i> , 2016, 6, 65112-65118.	1.7	19
97	Synthesis of new Azo-based liquid crystalline polymers and their selective sensing behaviors to alkali metal ions. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1713-1723.	2.5	6
98	Color-coded Batteries – Electro-Photonic Inverse Opal Materials for Enhanced Electrochemical Energy Storage and Optically Encoded Diagnostics. <i>Advanced Materials</i> , 2016, 28, 5681-5688.	11.1	44
99	Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18867-18877.	4.0	43
100	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
101	Transition metal oxides for sodium-ion batteries. <i>Energy Storage Materials</i> , 2016, 5, 116-131.	9.5	256
102	Search of high-capacity cathode materials based on lithium-iron silicate compounds. <i>Glass Physics and Chemistry</i> , 2016, 42, 576-581.	0.2	1
103	Improvement of Cathode Properties by Lithium Excess in Disordered Rocksalt Li <sub>2+x</sub> Mn <sub>1-x</sub> Ti <sub>1-x</sub> O <sub>3-x</sub> . <i>Electrochemistry</i> , 2016, 84, 597-600.		
104	Synthesis and Electrode Performance of Li <sub>4</sub> MoO <sub>5</sub> -LiFeO <sub>2</sub> Binary System as Positive Electrode Materials for Rechargeable Lithium Batteries. <i>Electrochemistry</i> , 2016, 84, 797-801.	0.6	30
105	Prediction of new battery materials based on ab initio computations. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	7
106	Facile Synthesis of Non-Graphitizable Polypyrrole-Derived Carbon/Carbon Nanotubes for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016, 6, 19317.	1.6	52
107	Origin of stabilization and destabilization in solid-state redox reaction of oxide ions for lithium-ion batteries. <i>Nature Communications</i> , 2016, 7, 13814.	5.8	330
108	Penta-graphene: A Promising Anode Material as the Li/Na-Ion Battery with Both Extremely High Theoretical Capacity and Fast Charge/Discharge Rate. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35342-35352.	4.0	174
109	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.	15.6	295
110	Porous niobium nitride as a capacitive anode material for advanced Li-ion hybrid capacitors with superior cycling stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9760-9766.	5.2	84
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112	Structural Understanding of Superior Battery Properties of Partially Ni-Doped Li <sub>2</sub> MnO <sub>3</sub> as Cathode Material. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2063-2067.	2.1	29
113	A synergistic effect between layer surface configurations and K ions of potassium vanadate nanowires for enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4893-4899.	5.2	65
114	Enhanced electrochemical performance of Ti-doped Li <sub>1.2</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 317, 74-80.	4.0	134
115	The Effect of Cation Disorder on the Average Li Intercalation Voltage of Transition-Metal Oxides. <i>Chemistry of Materials</i> , 2016, 28, 3659-3665.	3.2	62
116	In Situ STEM-EELS Observation of Nanoscale Interfacial Phenomena in All-Solid-State Batteries. <i>Nano Letters</i> , 2016, 16, 3760-3767.	4.5	278
117	High rate capabilities of HF-etched SiOC anode materials derived from polymer for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 43316-43321.	1.7	32
118	Crystalline Grain Interior Configuration Affects Lithium Migration Kinetics in Li-Rich Layered Oxide. <i>Nano Letters</i> , 2016, 16, 2907-2915.	4.5	115
119	Electrode Reaction Mechanism of Ag <sub>2</sub> VO <sub>2</sub> PO <sub>4</sub> Cathode. <i>Chemistry of Materials</i> , 2016, 28, 3428-3434.	3.2	6
120	A Study of Stacking Faults and Superlattice Ordering in Some Li-Rich Layered Transition Metal Oxide Positive Electrode Materials. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1394-A1400.	1.3	49
121	Elastic Properties, Defect Thermodynamics, Electrochemical Window, Phase Stability, and Li <sup>+</sup> Mobility of Li <sub>3</sub> PS <sub>4</sub> : Insights from First-Principles Calculations. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25229-25242.	4.0	114
122	Electrospun Li <sub>2</sub> MnO <sub>3</sub> -modified Li <sub>1.2</sub> Ni <sub>x</sub> Co <sub>0.1</sub> Mn <sub>0.9-x</sub> O <sub>2</sub> nanofibers: Synthesis and enhanced electrochemical performance for lithium-ion batteries. <i>Electronic Materials Letters</i> , 2016, 12, 804-811.	1.0	10
123	Two dimensional and layered transition metal oxides. <i>Applied Materials Today</i> , 2016, 5, 73-89.	2.3	400
124	Prospects for spinel-stabilized, high-capacity lithium-ion battery cathodes. <i>Journal of Power Sources</i> , 2016, 334, 213-220.	4.0	18
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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263	Photodeposited Amorphous Oxide Films for Electrochromic Windows. <i>CheM</i> , 2018, 4, 821-832.	5.8	95
264	Reversible Multi-Electron Transfer of Cr <sup>2.8+</sup> /Cr <sup>4.4+</sup> in O <sub>3</sub> -Type Layered Na <sub>0.66</sub> Fe <sub>1/3</sub> Cr <sub>1/3</sub> Ti <sub>1/3</sub> O <sub>2</sub> for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A565-A574.	1.3	19
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266	Fundamental Challenges for Modeling Electrochemical Energy Storage Systems at the Atomic Scale. <i>Topics in Current Chemistry</i> , 2018, 376, 17.	3.0	16
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269	Highly bonded T-Nb <sub>2</sub> O <sub>5</sub> /rGO nanohybrids for 4 V quasi-solid state asymmetric supercapacitors with improved electrochemical performance. <i>Nano Research</i> , 2018, 11, 4673-4685.	5.8	50
270	Fundamental understanding and practical challenges of anionic redox activity in Li-ion batteries. <i>Nature Energy</i> , 2018, 3, 373-386.	19.8	962
271	Reversible Mn <sup>2+</sup> /Mn <sup>4+</sup> double redox in lithium-excess cathode materials. <i>Nature</i> , 2018, 556, 185-190.	13.7	525
272	Stretchable and Tailorable Triboelectric Nanogenerator Constructed by Nanofibrous Membrane for Energy Harvesting and Self-Powered Biomechanical Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1700370.	3.0	47
273	All boron-based 2D material as anode material in Li-ion batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 1651-1654.	7.1	35



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275	Unravelling Solid-State Redox Chemistry in $\text{Li}_{1.3}\text{Nb}_{0.3}\text{Mn}_{0.4}\text{O}_2$ Single-Crystal Cathode Material. <i>Chemistry of Materials</i> , 2018, 30, 1655-1666.	3.2	84
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286	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. <i>Joule</i> , 2018, 2, 125-140.	11.7	311
287	Phase transitions and related electrochemical performances of Li-Rich layered cathode materials for high-energy lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 732, 385-395.	2.8	21
288	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018, 11, 205-259.	9.5	221
289	Fluorination of Lithium Excess Transition Metal Oxide Cathode Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1701533.	10.2	115
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291	FUNDAMENTALS OF RECHARGEABLE BATTERIES AND ELECTROCHEMICAL POTENTIALS OF ELECTRODE MATERIALS. , 2018, , 397-451.		3

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#	ARTICLE	IF	CITATIONS
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