Seung-Taek Myung

List of Publications by Year
in descending order

271 papers	30,271 citations	5268 83 h-index	4991 167 g-index
284 all docs	284 docs citations	284 times ranked	16444 citing authors

#	Article	IF	Citations
1	Sodium-ion batteries: present and future. Chemical Society Reviews, 2017, 46, 3529-3614.	38.1	3,436
2	High-energy cathode material for long-life and safe lithium batteries. Nature Materials, 2009, 8, 320-324.	27.5	1,323
3	Detailed Studies of a High-Capacity Electrode Material for Rechargeable Batteries, Li₂MnO₃â^'LiCo_{1/3}Ni_{1/3}Mn_{1/3}O₂. Journal of the American Chemical Society, 2011, 133, 4404-4419.	13.7	1,066
4	Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. ACS Energy Letters, 2017, 2, 196-223.	17.4	1,033
5	Nickelâ€Rich and Lithiumâ€Rich Layered Oxide Cathodes: Progress and Perspectives. Advanced Energy Materials, 2016, 6, 1501010.	19.5	946
6	Nanostructured high-energy cathode materials for advanced lithium batteries. Nature Materials, 2012, 11, 942-947.	27.5	921
7	Comparative Study of LiNi0.5Mn1.5O4-Î´ and LiNi0.5Mn1.5O4 Cathodes Having Two Crystallographic Structures:â€‰Fd3̄m and P4332. Chemistry of Materials, 2004, 16, 906-914.	6.7	687
8	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. ACS Energy Letters, 2018, 3, 2620-2640.	17.4	676
9	Synthetic optimization of Li[Ni1/3Co1/3Mn1/3]O2 via co-precipitation. Electrochimica Acta, 2004, 50, 939-948.	5.2	535
10	Recent Progress in Rechargeable Potassium Batteries. Advanced Functional Materials, 2018, 28, 1802938.	14.9	518
11	Role of Alumina Coating on Liâ^'Niâ^'Coâ^'Mnâ^'O Particles as Positive Electrode Material for Lithium-Ion Batteries. Chemistry of Materials, 2005, 17, 3695-3704.	6.7	493
12	Microscale spherical carbon-coated Li4Ti5O12 as ultra high power anode material for lithium batteries. Energy and Environmental Science, 2011, 4, 1345.	30.8	433
13	Anatase Titania Nanorods as an Intercalation Anode Material for Rechargeable Sodium Batteries. Nano Letters, 2014, 14, 416-422.	9.1	422
14	Synthesis and Characterization of Li[(Ni0.8Co0.1Mn0.1)0.8(Ni0.5Mn0.5)0.2]O2with the Microscale Coreâ^'Shell Structure as the Positive Electrode Material for Lithium Batteries. Journal of the American Chemical Society, 2005, 127, 13411-13418.	13.7	417
15	Double Carbon Coating of LiFePO₄ as High Rate Electrode for Rechargeable Lithium Batteries. Advanced Materials, 2010, 22, 4842-4845.	21.0	361
16	Nanostructured Anode Material for Highâ€Power Battery System in Electric Vehicles. Advanced Materials, 2010, 22, 3052-3057.	21.0	359
17	Reversible NaFePO4 electrode for sodium secondary batteries. Electrochemistry Communications, 2012, 22, 149-152.	4.7	350
18	Electrochemical behavior and passivation of current collectors in lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 9891.	6.7	320

#	Article	IF	Citations
19	NaCrO₂ cathode for high-rate sodium-ion batteries. Energy and Environmental Science, 2015, 8, 2019-2026.	30.8	307
20	An effective method to reduce residual lithium compounds on Ni-rich Li[Ni0.6Co0.2Mn0.2]O2 active material using a phosphoric acid derived Li3PO4 nanolayer. Nano Research, 2015, 8, 1464-1479.	10.4	304
21	Structural Stability of LiNiO₂ Cycled above 4.2 V. ACS Energy Letters, 2017, 2, 1150-1155.	17.4	292
22	Advanced Na[Ni_{0.25}Fe_{0.5}Mn_{0.25}]O₂/Câ€“Fe₃O₄ Sodium-Ion Batteries Using EMS Electrolyte for Energy Storage. Nano Letters, 2014, 14, 1620-1626.	9.6	283
23	High-energy-density lithium-ion battery using a carbon-nanotubeâ€“Si composite anode and a compositionally graded Li[Ni_{0.85}Co_{0.05}Mn_{0.10}]O₂ cathode. Energy and Environmental Science, 2016, 9, 2152-2158.	30.8	269
24	Effect of Residual Lithium Compounds on Layer Ni-Rich Li[Ni_{0.7}Mn_{0.3}]O₂. Journal of the Electrochemical Society, 2014, 161, A920-A926.	2.9	267
25	A Novel Cathode Material with a Concentrationâ€Gradient for Highâ€Energy and Safe Lithiumâ€Ion Batteries. Advanced Functional Materials, 2010, 20, 485-491.	14.9	252
26	Diverting Exploration of Silicon Anode into Practical Way: A Review Focused on Silicon-Graphite Composite for Lithium Ion Batteries. Energy Storage Materials, 2021, 35, 550-576.	18.0	248
27	Significant improvement of high voltage cycling behavior AlF3-coated LiCoO2 cathode. Electrochemistry Communications, 2006, 8, 821-826.	4.7	245
28	Cobalt-Free Nickel Rich Layered Oxide Cathodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 11434-11440.	8.0	236
29	Molten salt synthesis of LiNi0.5Mn1.5O4 spinel for 5 V class cathode material of Li-ion secondary battery. Electrochimica Acta, 2004, 49, 219-227.	5.2	231
30	Effects of Al doping on the microstructure of LiCoO2 cathode materials. Solid State Ionics, 2001, 139, 47-56.	2.7	221
31	Black anatase titania enabling ultra high cycling rates for rechargeable lithium batteries. Energy and Environmental Science, 2013, 6, 2609.	30.8	221
32	Recent Progress and Perspective of Advanced Highâ€Energy Coâ€Less Niâ€Rich Cathodes for Liâ€Ion Batteries: Yesterday, Today, and Tomorrow. Advanced Energy Materials, 2020, 10, 2002027.	19.5	221
33	Surface modification of cathode materials from nano- to microscale for rechargeable lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 7074.	6.7	214
34	Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries. Nature Communications, 2015, 6, 6865.	12.8	210
35	Emulsion drying synthesis of olivine LiFePO4/C composite and its electrochemical properties as lithium intercalation material. Electrochimica Acta, 2004, 49, 4213-4222.	5.2	189
36	Enhanced Structural Stability and Cyclability of Al-Doped LiMn[sub 2]O[sub 4] Spinel Synthesized by the Emulsion Drying Method. Journal of the Electrochemical Society, 2001, 148, A482.	2.9	183

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37	Structural and Electrochemical Properties of Layered Li[Ni[sub 1â^'2x]Co[sub x]Mn[sub x]]O[sub 2] (x=0.1â€“0.3) Positive Electrode Materials for Li-Ion Batteries. Journal of the Electrochemical Society, 2007, 154, A971.	2.9	177
38	Improvement of electrochemical and thermal properties of Li[Ni0.8Co0.1Mn0.1]O2 positive electrode materials by multiple metal (Al, Mg) substitution. Electrochimica Acta, 2009, 54, 3851-3856.	5.2	177
39	High Capacity O3-Type Na[Li_{0.05}(Ni_{0.25}Fe_{0.25}Mn_{0.5})_{0.95}]O₂ Cathode for Sodium Ion Batteries. Chemistry of Materials, 2014, 26, 6165-6171.	9.7	175
40	Reducing cobalt from lithium-ion batteries for the electric vehicle era. Energy and Environmental Science, 2021, 14, 844-852.	30.8	174
41	Nano-crystalline LiNi0.5Mn1.5O4 synthesized by emulsion drying method. Electrochimica Acta, 2002, 47, 2543-2549.	5.2	163
42	Functionality of Oxide Coating for Li[Li0.05Ni0.4Co0.15Mn0.4]O2as Positive Electrode Materials for Lithium-Ion Secondary Batteries. Journal of Physical Chemistry C, 2007, 111, 4061-4067.	3.1	163
43	Extending the Battery Life Using an Al-Doped Li[Ni_{0.76}Co_{0.09}Mn_{0.15}]O₂ Cathode with Concentration Gradients for Lithium Ion Batteries. ACS Energy Letters, 2017, 2, 1848-1854.	17.4	162
44	Development of P3-K_{0.69}CrO₂ as an ultra-high-performance cathode material for K-ion batteries. Energy and Environmental Science, 2018, 11, 2821-2827.	30.8	157
45	Nanostructured TiO₂ and Its Application in Lithiumâ€ion Storage. Advanced Functional Materials, 2011, 21, 3231-3241.	14.9	154
46	Improvement of structural and electrochemical properties of AlF3-coated Li[Ni1/3Co1/3Mn1/3]O2 cathode materials on high voltage region. Journal of Power Sources, 2008, 178, 826-831.	7.8	144
47	Improvement of Electrochemical Performances of Li[Ni[sub 0.8]Co[sub 0.1]Mn[sub 0.1]]O[sub 2] Cathode Materials by Fluorine Substitution. Journal of the Electrochemical Society, 2007, 154, A649.	2.9	141
48	Sodiumâ€ion Batteries: Building Effective Layered Cathode Materials with Longâ€Term Cycling by Modifying the Surface via Sodium Phosphate. Advanced Functional Materials, 2018, 28, 1705968.	14.9	138
49	Compositionally Graded Cathode Material with Longâ€Term Cycling Stability for Electric Vehicles Application. Advanced Energy Materials, 2016, 6, 1601417.	19.5	137
50	Improvement of High-Voltage Cycling Behavior of Surface-Modified Li[Ni[sub 1â^•3]Co[sub 1â^•3]Mn[sub 1â^•3]]O[sub 2] Cathodes by Fluorine Substitution for Li-Ion Batteries. Journal of the Electrochemical Society, 2005, 152, A1707.	2.9	133
51	Ultrafast sodium storage in anatase TiO2 nanoparticles embedded on carbon nanotubes. Nano Energy, 2015, 16, 218-226.	16.0	128
52	A novel concentration-gradient Li[Ni0.83Co0.07Mn0.10]O2 cathode material for high-energy lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 10108.	6.7	126
53	Hollandite-type Al-doped VO_{1.52}(OH)_{0.77} as a zinc ion insertion host material. Journal of Materials Chemistry A, 2017, 5, 8367-8375.	10.3	123
54	K0.54[Co0.5Mn0.5]O2: New cathode with high power capability for potassium-ion batteries. Nano Energy, 2019, 61, 284-294.	16.0	120

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55	Co-Free Layered Cathode Materials for High Energy Density Lithium-Ion Batteries. ACS Energy Letters, 2020, 5, 1814-1824.	17.4	117
56	Synthesis of Spherical Nano- to Microscale Coreâ^'Shell Particles Li[(Ni0.8Co0.1Mn0.1)1-x(Ni0.5Mn0.5)x]O2and Their Applications to Lithium Batteries. Chemistry of Materials, 2006, 18, 5159-5163.	6.7	116
57	Corrosion behavior of austenitic stainless steels as a function of pH for use as bipolar plates in polymer electrolyte membrane fuel cells. Electrochimica Acta, 2008, 53, 4205-4212.	5.2	115
58	Effect of Ti Substitution for Mn on the Structure of LiNi[sub 0.5]Mn[sub 1.5â^'x]Ti[sub x]O[sub 4] and Their Electrochemical Properties as Lithium Insertion Material. Journal of the Electrochemical Society, 2004, 151, A1911.	2.9	112
59	Electrochemical and thermal characterization of AlF3-coated Li[Ni0.8Co0.15Al0.05]O2 cathode in lithium-ion cells. Journal of Power Sources, 2008, 179, 347-350.	7.8	112
60	Open-Structured Vanadium Dioxide as an Intercalation Host for Zn Ions: Investigation by First-Principles Calculation and Experiments. Chemistry of Materials, 2018, 30, 6777-6787.	6.7	111
61	Comparative Study of Ni-Rich Layered Cathodes for Rechargeable Lithium Batteries: Li[Ni_{0.85}Co_{0.11}Al_{0.04}]O₂ and Li[Ni_{0.84}Co_{0.06}Mn_{0.09}Al_{0.01}]O₂ with Two-Step Full Concentration Gradients. ACS Energy Letters, 2016, 1, 283-289.	17.4	110
62	Phase Transitions in Li[sub 1â^'Î']Ni[sub 0.5]Mn[sub 1.5]O[sub 4] during Cycling at 5 V. Electrochemical and Solid-State Letters, 2004, 7, A216.	2.2	109
63	Effect of AlF3 coating amount on high voltage cycling performance of LiCoO2. Electrochimica Acta, 2007, 53, 1013-1019.	5.2	109
64	Carbon-coated Li4Ti5O12 nanowires showing high rate capability as an anode material for rechargeable sodium batteries. Nano Energy, 2015, 12, 725-734.	16.0	109
65	Resolving the degradation pathways of the O3-type layered oxide cathode surface through the nano-scale aluminum oxide coating for high-energy density sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23671-23680.	10.3	107
66	Electrochemical behavior of current collectors for lithium batteries in non-aqueous alkyl carbonate solution and surface analysis by ToF-SIMS. Electrochimica Acta, 2009, 55, 288-297.	5.2	104
67	Doubleâ€Structured LiMn_{0.85}Fe_{0.15}PO₄ Coordinated with LiFePO₄ for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2012, 51, 1853-1856.	13.8	102
68	Improved electrochemical properties of BiOF-coated 5V spinel Li[Ni0.5Mn1.5]O4 for rechargeable lithium batteries. Journal of Power Sources, 2010, 195, 2023-2028.	7.8	101
69	AlF3-coated LiCoO2 and Li[Ni1/3Co1/3Mn1/3]O2 blend composite cathode for lithium ion batteries. Journal of Power Sources, 2011, 196, 6974-6977.	7.8	100
70	Exceptionally highly stable cycling performance and facile oxygen-redox of manganese-based cathode materials for rechargeable sodium batteries. Nano Energy, 2019, 59, 197-206.	16.0	100
71	Effect of AlF₃Coating on Thermal Behavior of Chemically Delithiated Li_{0.35}[Ni_{1/3}Co_{1/3}Mn_{1/3}]O₂. Journal of Physical Chemistry C, 2010, 114, 4710-4718.	3.1	99
72	High-voltage performance of concentration-gradient Li[Ni0.67Co0.15Mn0.18]O2 cathode material for lithium-ion batteries. Electrochimica Acta, 2010, 55, 8621-8627.	5.2	98

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73	Novel Coreâ˜Shell-Structured Li[(Ni0.8Co0.2)0.8(Ni0.5Mn0.5)0.2]O2via Coprecipitation as Positive Electrode Material for Lithium Secondary Batteries. Journal of Physical Chemistry B, 2006, 110, 6810-6815.	2.6	97
74	Nanostructured cathode materials for rechargeable lithium batteries. Journal of Power Sources, 2015, 283, 219-236.	7.8	97
75	Synthesis of Nanostructured Li[Ni1/3Co1/3Mn1/3]O2via a Modified Carbonate Process. Chemistry of Materials, 2005, 17, 6-8.	6.7	96
76	Enhanced electrochemical performance of carbonâ€“LiMn1â˜Fe PO4 nanocomposite cathode for lithium-ion batteries. Journal of Power Sources, 2011, 196, 6924-6928.	7.8	95
77	Cathode Materials for Future Electric Vehicles and Energy Storage Systems. ACS Energy Letters, 2017, 2, 703-708.	17.4	95
78	Synthesis and Electrochemical Properties of Li[Ni[sub 1/3]Co[sub 1/3]Mn[sub (1/3â˜x)]Mg[sub x]]O[sub 2â˜y]F[sub y] via Coprecipitation. Electrochemical and Solid-State Letters, 2004, 7, A477.	2.2	93
79	Synthesis of spherical Li[Ni(1/3â˜z)Co(1/3â˜z)Mn(1/3â˜z)Mgz]O2 as positive electrode material for lithium-ion battery. Electrochimica Acta, 2006, 51, 2447-2453.	5.2	92
80	A mini-review on the development of Si-based thin film anodes for Li-ion batteries. Materials Today Energy, 2018, 9, 49-66.	4.7	92
81	Bioinspired Surface Layer for the Cathode Material of Highâ€Energyâ€Density Sodiumâ€ion Batteries. Advanced Energy Materials, 2018, 8, 1702942.	19.5	91
82	Hydrothermal synthesis of layered Li[Ni1/3Co1/3Mn1/3]O2 as positive electrode material for lithium secondary battery. Electrochimica Acta, 2005, 50, 4800-4806.	5.2	90
83	An advanced sodium-ion rechargeable battery based on a tinâ€“carbon anode and a layered oxide framework cathode. Physical Chemistry Chemical Physics, 2013, 15, 3827.	2.8	88
84	Synthesis of LiNi0.5Mn0.5-xTixO2 by an Emulsion Drying Method and Effect of Ti on Structure and Electrochemical Properties. Chemistry of Materials, 2005, 17, 2427-2435.	6.7	85
85	Synthesis of Li[(Ni0.5Mn0.5)1-xLix]O2by Emulsion Drying Method and Impact of Excess Li on Structural and Electrochemical Properties. Chemistry of Materials, 2006, 18, 1658-1666.	6.7	82
86	Nanoporous Structured LiFePO[sub 4] with Spherical Microscale Particles Having High Volumetric Capacity for Lithium Batteries. Electrochemical and Solid-State Letters, 2009, 12, A181.	2.2	82
87	Novel Cathode Materials for Naâ€ion Batteries Composed of Spokeâ€Like Nanorods of Na[Ni_{0.61}Co_{0.12}Mn_{0.27}]O₂ Assembled in Spherical Secondary Particles. Advanced Functional Materials, 2016, 26, 8083-8093.	14.9	78
88	Hydrothermal synthesis and electrochemical behavior of orthorhombic LiMnO2. Electrochimica Acta, 2002, 47, 3287-3295.	5.2	76
89	A New Strategy to Build a Highâ€Performance Pâ€²2â€Type Cathode Material through Titanium Doping for Sodiumâ€ion Batteries. Advanced Functional Materials, 2019, 29, 1901912.	14.9	76
90	Co-precipitation synthesis of micro-sized spherical LiMn0.5Fe0.5PO4 cathode material for lithium batteries. Journal of Materials Chemistry, 2011, 21, 19368.	6.7	75

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91	Dual functioned BiOF-coated Li[Li0.1Al0.05Mn1.85]O4 for lithium batteries. Journal of Materials Chemistry, 2009, 19, 1995.	6.7	72
92	Highâ€Voltage Oxygenâ€Redoxâ€Based Cathode for Rechargeable Sodiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001111.	19.5	72
93	Role of AlF[sub 3] Coating on LiCoO[sub 2] Particles during Cycling to Cutoff Voltage above 4.5 V. Journal of the Electrochemical Society, 2009, 156, A1005.	2.9	70
94	Nanoparticle TiN-coated type 310S stainless steel as bipolar plates for polymer electrolyte membrane fuel cell. Electrochemistry Communications, 2008, 10, 480-484.	4.7	67
95	Efficient recycling of valuable resources from discarded lithium-ion batteries. Journal of Power Sources, 2019, 426, 259-265.	7.8	67
96	Particle size effect of Li[Ni0.5Mn0.5]O2 prepared by co-precipitation. Electrochimica Acta, 2008, 53, 6033-6037.	5.2	66
97	Re-heating effect of Ni-rich cathode material on structure and electrochemical properties. Journal of Power Sources, 2016, 313, 1-8.	7.8	65
98	Spherical core-shell Li[(Li0.05Mn0.95)0.8(Ni0.25Mn0.75)0.2]2O4 spinels as high performance cathodes for lithium batteries. Energy and Environmental Science, 2011, 4, 935.	30.8	63
99	Carbon-Coated Magnetite Embedded on Carbon Nanotubes for Rechargeable Lithium and Sodium Batteries. ACS Applied Materials & Interfaces, 2014, 6, 11749-11757.	8.0	63
100	Electrochemical evaluation of mixed oxide electrode for Li-ion secondary batteries: Li1.1Mn1.9O4 and LiNi0.8Co0.15Al0.05O2. Journal of Power Sources, 2005, 146, 222-225.	7.8	62
101	Effect of fluorine on Li[Ni1/3Co1/3Mn1/3]O2â^'zFz as lithium intercalation material. Journal of Power Sources, 2005, 146, 602-605.	7.8	62
102	Effect of nickel and iron on structural and electrochemical properties of O3 type layer cathode materials for sodium-ion batteries. Journal of Power Sources, 2016, 324, 106-112.	7.8	58
103	Role of the Mn substituent in Na₃V₂(PO₄)₃ for high-rate sodium storage. Journal of Materials Chemistry A, 2018, 6, 16627-16637.	10.3	58
104	Improvement of electrochemical properties of Li1.1Al0.05Mn1.85O4 achieved by an AlF3 coating. Journal of Power Sources, 2011, 196, 1353-1357.	7.8	57
105	Progress in High-Capacity Coreâ€“Shell Cathode Materials for Rechargeable Lithium Batteries. Journal of Physical Chemistry Letters, 2014, 5, 671-679.	4.6	57
106	Facile migration of potassium ions in a ternary P3-type K0.5[Mn0.8Fe0.1Ni0.1]O2 cathode in rechargeable potassium batteries. Energy Storage Materials, 2020, 25, 714-723.	18.0	57
107	Capacity fading of LiMn2O4 electrode synthesized by the emulsion drying method. Journal of Power Sources, 2000, 90, 103-108.	7.8	55
108	Improvement of structural integrity and battery performance of LiNi0.5Mn0.5O2 by Al and Ti doping. Journal of Power Sources, 2005, 146, 645-649.	7.8	55

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109	Polyvinylpyrrolidone-assisted synthesis of microscale C-LiFePO4 with high tap density as positive electrode materials for lithium batteries. Electrochimica Acta, 2010, 55, 1193-1199.	5.2	55
110	Effects of synthesis condition on LiNiMnO cathode material for prepared by ultrasonic spray pyrolysis method. Solid State Ionics, 2005, 176, 481-486.	2.7	54
111	Effects of Co doping on Li[Ni0.5CoxMn1.5â^'x]O4 spinel materials for 5V lithium secondary batteries via Co-precipitation. Journal of Power Sources, 2009, 189, 752-756.	7.8	54
112	Effect of titanium addition as nickel oxide formation inhibitor in nickel-rich cathode material for lithium-ion batteries. Journal of Power Sources, 2015, 299, 425-433.	7.8	54
113	New Insight on Openâ€Structured Sodium Vanadium Oxide as Highâ€Capacity and Long Life Cathode for Znâ€"Ion Storage: Structure, Electrochemistry, and Firstâ€Principles Calculation. Advanced Energy Materials, 2020, 10, 2001595.	19.5	54
114	Olivine LiCoPO4â€"carbon composite showing high rechargeable capacity. Journal of Materials Chemistry, 2012, 22, 14932.	6.7	53
115	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. NPG Asia Materials, 2016, 8, e270-e270.	7.9	53
116	Potassium vanadate as a new cathode material for potassium-ion batteries. Journal of Power Sources, 2019, 432, 24-29.	7.8	53
117	Neutron powder diffraction studies of LiMn2â^'yAlyO4 synthesized by the emulsion drying method. Solid State Ionics, 2002, 149, 47-52.	2.7	52
118	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. Journal of Materials Chemistry A, 2018, 6, 8558-8567.	10.3	52
119	Highly enhancement of the SiO nanocomposite through Ti-doping and carbon-coating for high-performance Li-ion battery. Journal of Power Sources, 2018, 400, 613-620.	7.8	51
120	Co-precipitation synthesis of spherical Li1.05M0.05Mn1.9O4 (M=Ni, Mg, Al) spinel and its application for lithium secondary battery cathode. Electrochimica Acta, 2007, 52, 5201-5206.	5.2	50
121	Mnâ€Rich Pâ€²2â€Na_{0.67}[Ni_{0.1}Fe_{0.1}Mn_{0.8}]O₂ as Highâ€Energyâ€Density and Longâ€Life Cathode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001346.	19.5	50
122	P2â€K_{0.75}[Ni_{1/3}Mn_{2/3}]O₂ Cathode Material for High Power and Long Life Potassiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1903605.	19.5	50
123	The effects of calcination temperature on the electrochemical performance of LiMnPO4 prepared by ultrasonic spray pyrolysis. Journal of Alloys and Compounds, 2010, 506, 372-376.	5.5	49
124	Unraveling the Role of Earth-Abundant Fe in the Suppression of Jahnâ€"Teller Distortion of Pâ€²2-Type Na_{2/3}MnO₂: Experimental and Theoretical Studies. ACS Applied Materials & Interfaces, 2018, 10, 40978-40984.	8.0	49
125	Controlled Oxygen Redox for Excellent Power Capability in Layered Sodiumâ€Based Compounds. Advanced Energy Materials, 2019, 9, 1901181.	19.5	49
126	Synthesis and electrochemical performances of core-shell structured Li[(Ni1/3Co1/3Mn1/3)0.8(Ni1/2Mn1/2)0.2]O2 cathode material for lithium ion batteries. Journal of Power Sources, 2010, 195, 6043-6048.	7.8	48

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127	Iron trifluoride synthesized via evaporation method and its application to rechargeable lithium batteries. Journal of Power Sources, 2013, 223, 1-8.	7.8	48
128	Graphene Decorated by Indium Sulfide Nanoparticles as High-Performance Anode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 23723-23730.	8.0	48
129	Vanadium dioxide â€“ Reduced graphene oxide composite as cathode materials for rechargeable Li and Na batteries. Journal of Power Sources, 2016, 326, 522-532.	7.8	45
130	Preparation and characterization of LiMn2O4 powders by the emulsion drying method. Journal of Power Sources, 1999, 84, 32-38.	7.8	44
131	Preparation and electrochemical characterization of LiCoO2 by the emulsion drying method. Journal of Applied Electrochemistry, 2000, 30, 1081-1085.	2.9	44
132	Hydrothermal synthesis of high crystalline orthorhombic LiMnO2 as a cathode material for Li-ion batteries. Solid State Ionics, 2002, 152-153, 311-318.	2.7	43
133	Improvement of the Electrochemical Properties of Li[Ni[sub 0.5]Mn[sub 0.5]]O[sub 2] by AlF[sub 3] Coating. Journal of the Electrochemical Society, 2008, 155, A705.	2.9	43
134	A new pre-sodiation additive for sodium-ion batteries. Energy Storage Materials, 2020, 32, 281-289.	18.0	43
135	Improved Electrochemical Cycling Behavior of ZnO-Coated Li[sub 1.05]Al[sub 0.1]Mn[sub 1.85]O[sub 3.95]F[sub 0.05] Spinel at 55Â°C. Journal of the Electrochemical Society, 2006, 153, A1290.	2.9	42
136	Hysteresisâ€Suppressed Reversible Oxygenâ€Redox Cathodes for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	42
137	LiNi[sub 0.5]Mn[sub 1.5]O[sub 4] Showing Reversible Phase Transition on 3 V Region. Electrochemical and Solid-State Letters, 2005, 8, A163.	2.2	41
138	High-Energy Layered Oxide Cathodes with Thin Shells for Improved Surface Stability. Chemistry of Materials, 2014, 26, 5973-5979.	6.7	41
139	Tunnel-type Î²-FeOOH cathode material for high rate sodium storage via a new conversion reaction. Nano Energy, 2017, 41, 687-696.	16.0	41
140	P2-Na_{2/3}MnO₂ by Co Incorporation: As a Cathode Material of High Capacity and Long Cycle Life for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28928-28933.	8.0	41
141	Controllable charge capacity using a black additive for high-energy-density sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 3903-3909.	10.3	41
142	Hydrothermal Synthesis of Orthorhombic LiCo[sub x]Mn[sub 1â^'x]O[sub 2] and Their Structural Changes during Cycling. Journal of the Electrochemical Society, 2002, 149, A1349.	2.9	40
143	Recent Advances in Electrode Materials with Anion Redox Chemistry for Sodium-Ion Batteries. Energy Material Advances, 2021, 2021, .	11.0	40
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