## Xinhai Li

## 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.

103
papers

4,427
citations

103
papers

5,090
ext. papers

7.7
avg, IF

64
g-index

5.93
L-index

#	Paper	IF	Citations
103	First-Principle Study of a ZnS/Graphene Heterostructure as a Promising Anode Material for Lithium-Ion Batteries. <i>Energy &amp; Description</i> 2022, 36, 677-683	4.1	O
102	Mitigating the voltage fading and air sensitivity of O3-type NaNi0.4Mn0.4Cu0.1Ti0.1O2 cathode material via La doping. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133456	14.7	2
101	First principles calculation of Li2+2xZn1-xSiO4 (x\[D.125\]0.125\]0.5) as solid electrolyte for lithium-ion battery. <i>Solid State Ionics</i> , <b>2021</b> , 371, 115767	3.3	2
100	Spiral Graphene Coupling Hierarchically Porous Carbon Advances Dual-Carbon Lithium Ion Capacitor. <i>Energy Storage Materials</i> , <b>2021</b> , 38, 528-534	19.4	8
99	Evolution of the morphology, structural and thermal stability of LiCoO2 during overcharge. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 55, 524-532	12	13
98	Incorporating multifunctional LiAlSiO4 into polyethylene oxide for high-performance solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 116-123	12	10
97	Self-sacrificial-reaction guided formation of hierarchical electronic/ionic conductive shell enabling high-performance nano-silicon anode. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 128998	14.7	11
96	Research Progress of Single-Crystal Nickel-Rich Cathode Materials for Lithium Ion Batteries <i>Small Methods</i> , <b>2021</b> , 5, e2100234	12.8	10
95	Atomic layer deposition-strengthened lithiophilicity of ultrathin TiO2 film decorated Cu foil for stable lithium metal anode. <i>Journal of Power Sources</i> , <b>2020</b> , 463, 228157	8.9	21
94	Oxygen-induced lithiophilicity of tin-based framework toward highly stable lithium metal anode. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124848	14.7	16
93	New insight into the electrodeposition of NiCo layered double hydroxide and its capacitive evaluation. <i>Electrochimica Acta</i> , <b>2020</b> , 336, 135734	6.7	11
92	Vital effect of sufficient vulcanization on the properties of Ni-Co-S/graphene composites for supercapacitor. <i>Chemical Engineering Science</i> , <b>2020</b> , 221, 115709	4.4	7
91	In-situ tailored 3D Li2O@Cu nanowires array enabling stable lithium metal anode with ultra-high coulombic efficiency. <i>Journal of Power Sources</i> , <b>2020</b> , 463, 228178	8.9	16
90	Clearing surficial charge-transport obstacles to boost the performance of lithium-rich layered oxides. <i>Chemical Engineering Journal</i> , <b>2020</b> , 399, 125142	14.7	5
89	Modification on improving the structural stabilities and cyclic properties of Li1.2Mn0.54Ni0.13Co0.13O2 cathode materials with CePO4. <i>Ionics</i> , <b>2020</b> , 26, 2117-2127	2.7	5
88	Bifunctional Li6CoO4 serving as prelithiation reagent and pseudocapacitive electrode for lithium ion capacitors. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 47, 38-45	12	13
87	High-Value Utilization of Lignin To Prepare Functional Carbons toward Advanced Lithium-Ion Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11522-11531	8.3	14

86	A Renewable Sedimentary Slurry Battery: Preliminary Study in Zinc Electrodes. <i>IScience</i> , <b>2020</b> , 23, 1018	<b>32</b> 6.1	4
85	Mono-Active Bimetallic Oxide Co2AlO4 with Yolk-Shell Structure as a Superior Lithium-Storage Material. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3298-3302	4.3	4
84	Manipulating the Composition and Structure of Solid Electrolyte Interphase at Graphite Anode by Adjusting the Formation Condition. <i>Energy Technology</i> , <b>2019</b> , 7, 1900273	3.5	12
83	Advances in nanostructures fabricated via spray pyrolysis and their applications in energy storage and conversion. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3015-3072	58.5	182
82	Modification by simultaneously EWO3/Li2WO4 composite coating and spinel-structure formation on Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode via a simple wet process. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 790, 421-432	5.7	8
81	Smartly tailored Co(OH)2-Ni(OH)2 heterostucture on nickel foam as binder-free electrode for high-energy hybrid capacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 309, 140-147	6.7	15
80	Magnesium-doped Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode with high rate capability and improved cyclic stability. <i>Ionics</i> , <b>2019</b> , 25, 1967-1977	2.7	10
79	FeCox alloy nanoparticles encapsulated in three-dimensionally N-doped porous carbon/multiwalled carbon nanotubes composites as bifunctional electrocatalyst for zinc-air battery. <i>Journal of Power Sources</i> , <b>2019</b> , 438, 227019	8.9	16
78	Lithiophilic Ag/Li composite anodes via a spontaneous reaction for Li nucleation with a reduced barrier. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20911-20918	13	30
77	Controlled Synthesis of NixCoyS4/rGO Composites for Constructing High-Performance Asymmetric Supercapacitor. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	7
76	Modification of Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode with ⊞MoO3 via a simple wet chemical coating process. <i>Applied Surface Science</i> , <b>2019</b> , 479, 1277-1286	6.7	14
75	A novel dried plum-like yolkEhell architecture of tin oxide nanodots embedded into a carbon matrix: ultra-fast assembly and superior lithium storage properties. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5803-5810	13	29
74	The Electrochemical Performance and Reaction Mechanism of Coated Titanium Anodes for Manganese Electrowinning. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, E502-E511	3.9	15
73	Systematic parameter acquisition method for electrochemical model of 4.35 V LiCoO2 batteries. <i>Solid State Ionics</i> , <b>2019</b> , 343, 115083	3.3	16
72	The influences of SO42Ifrom electrolytic manganese dioxide precursor on the electrochemical properties of Li-rich Mn-based material for Li-ion batteries. <i>Ionics</i> , <b>2019</b> , 25, 2585-2594	2.7	7
71	Facile construction of Co(OH)2@Ni(OH)2 core-shell nanosheets on nickel foam as three dimensional free-standing electrode for supercapacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 293, 40-46	6.7	4º
70	Compact structured silicon/carbon composites as high-performance anodes for lithium ion batteries. <i>Ionics</i> , <b>2018</b> , 24, 3405-3411	2.7	8
69	Improving the electrochemical performance of Li-rich Li1.2Ni0.13Co0.13Mn0.54O2 cathode material by LiF coating. <i>Ionics</i> , <b>2018</b> , 24, 3717-3724	2.7	13

68	Suppressing the Voltage Decay and Enhancing the Electrochemical Performance of Li1.2Mn0.54Co0.13Ni0.13O2 by Multifunctional Nb2O5 Coating. <i>Energy Technology</i> , <b>2018</b> , 6, 2139-214	5 <sup>3.5</sup>	40
67	The role of a MnO2 functional layer on the surface of Ni-rich cathode materials: Towards enhanced chemical stability on exposure to air. <i>Ceramics International</i> , <b>2018</b> , 44, 13341-13348	5.1	28
66	Cooperation of nitrogen-doping and catalysis to improve the Li-ion storage performance of lignin-based hard carbon. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1390-1396	12	27
65	An Ostwald ripening route towards Ni-rich layered cathode material with cobalt-rich surface for lithium ion battery. <i>Science China Materials</i> , <b>2018</b> , 61, 719-727	7.1	21
64	Lightweight Reduced Graphene Oxide@MoS Interlayer as Polysulfide Barrier for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Discrete Materials &amp; Material</i>	9.5	182
63	Fluidized bed reaction towards crystalline embedded amorphous Si anode with much enhanced cycling stability. <i>Chemical Communications</i> , <b>2018</b> , 54, 3755-3758	5.8	60
62	A smart architecture of nickel-cobalt sulfide nanotubes assembled nanoclusters for high-performance pseudocapacitor. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 765, 505-511	5.7	9
61	BODIPY-Based Conjugated Porous Polymer and Its Derived Porous Carbon for Lithium-Ion Storage. <i>ACS Omega</i> , <b>2018</b> , 3, 7727-7735	3.9	8
60	Structural and electrochemical characterization of NH4F-pretreated lithium-rich layered Li[Li0.2Ni0.13Co0.13Mn0.54]O2 cathodes for lithium-ion batteries. <i>Ceramics International</i> , <b>2018</b> , 44, 14	3 <b>7</b> 0-14	13 <del>76</del>
59	A novel hierarchical precursor of densely integrated hydroxide nanoflakes on oxide microspheres toward high-performance layered Ni-rich cathode for lithium ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 1822-1828	7.8	12
58	Superior lithium storage of Si/WSi2 composite prepared via one step co-reduction of multi-phase oxide. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 826, 84-89	4.1	7
57	Improving rate capability and decelerating voltage decay of Li-rich layered oxide cathodes by chromium doping. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 11109-11119	6.7	50
56	Anchoring K+ in Li+ Sites of LiNi0.8Co0.15Al0.05O2 Cathode Material to Suppress its Structural Degradation During High-Voltage Cycling. <i>Energy Technology</i> , <b>2018</b> , 6, 2358-2366	3.5	55
55	Li3V(MoO4)3 as a novel electrode material with good lithium storage properties and improved initial coulombic efficiency. <i>Nano Energy</i> , <b>2018</b> , 44, 272-278	17.1	104
54	Spray pyrolysis synthesis of nickel-rich layered cathodes LiNi $12 \times Co \times Mn \times O 2$ (x = 0.075, 0.05, 0.025) for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 447-450	12	19
53	Bulk and surface reconstructed Li-rich Mn-based cathode material for lithium ion batteries with eliminating irreversible capacity loss. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 829, 7-15	4.1	8
52	Three-dimensionally mesoporous dual (Co, Fe) metal oxide/CNTs composite as electrocatalysts for air cathodes in Li-O2 batteries. <i>Ceramics International</i> , <b>2018</b> , 44, 21942-21949	5.1	7
51	Improving the Desulfurization Degree of High-Grade Nickel Matte via a Two-Step Oxidation Roasting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials</i> <i>Processing Science</i> , <b>2018</b> , 49, 1834-1840	2.5	3

## (2016-2018)

50	Effects of Nb doping on the performance of 0.5Li2MnO3ID.5LiNi1/3Co1/3Mn1/3O2 cathode material for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 822, 57-65	4.1	25
49	Spinel-embedded and Li3PO4 modified Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode materials for High-Performance Li-Ion battries. <i>Applied Surface Science</i> , <b>2018</b> , 456, 763-770	6.7	38
48	Potentiostatic deposition of nickel cobalt sulfide nanosheet arrays as binder-free electrode for high-performance pseudocapacitor. <i>Ceramics International</i> , <b>2018</b> , 44, 15778-15784	5.1	18
47	Electrochemical analysis graphite/electrolyte interface in lithium-ion batteries: p-Toluenesulfonyl isocyanate as electrolyte additive. <i>Nano Energy</i> , <b>2017</b> , 34, 131-140	17.1	162
46	Introducing reduced graphene oxide to improve the electrochemical performance of silicon-based materials encapsulated by carbonized polydopamine layer for lithium ion batteries. <i>Materials Letters</i> , <b>2017</b> , 195, 164-167	3.3	62
45	A new design concept for preparing nickel-foam-supported metal oxide microspheres with superior electrochemical properties. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13469-13474	13	86
44	Co 3 O 4 /Co nanoparticles enclosed graphitic carbon as anode material for high performance Li-ion batteries. <i>Chemical Engineering Journal</i> , <b>2017</b> , 321, 495-501	14.7	143
43	Distinct impact of cobalt salt type on the morphology, microstructure, and electrochemical properties of Co3O4 synthesized by ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 836-843	5.7	21
42	A short process for the efficient utilization of transition-metal chlorides in lithium-ion batteries: A case of Ni0.8Co0.1Mn0.1O1.1 and LiNi0.8Co0.1Mn0.1O2. <i>Journal of Power Sources</i> , <b>2017</b> , 342, 495-503	8.9	174
41	Metallurgy Inspired Formation of Homogeneous Al2O3 Coating Layer To Improve the Electrochemical Properties of LiNi0.8Co0.1Mn0.1O2 Cathode Material. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10199-10205	8.3	96
40	A compact process to prepare LiNi0.8Co0.1Mn0.1O2 cathode material from nickel-copper sulfide ore. <i>Hydrometallurgy</i> , <b>2017</b> , 174, 1-9	4	10
39	Improved electrochemical performance of Si/C material based on the interface stability. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 1304-1312	5.7	16
38	Accurate construction of a hierarchical nickel@obalt oxide multishell yolk@hell structure with large and ultrafast lithium storage capability. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14996-15001	13	94
37	Graphitic carbon balanced between high plateau capacity and high rate capability for lithium ion capacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15302-15309	13	66
36	Enhanced electrochemical performance of LiNi0.8Co0.1Mn0.1O2 cathode materials obtained by atomization co-precipitation method. <i>Ceramics International</i> , <b>2016</b> , 42, 644-649	5.1	31
35	Natural sisal fibers derived hierarchical porous activated carbon as capacitive material in lithium ion capacitor. <i>Journal of Power Sources</i> , <b>2016</b> , 329, 339-346	8.9	73
34	One-step synthesis of Li-doped NiO as high-performance anode material for lithium ion batteries. <i>Ceramics International</i> , <b>2016</b> , 42, 14565-14572	5.1	31
33	Novel Carbon-Encapsulated Porous SnO2 Anode for Lithium-Ion Batteries with Much Improved Cyclic Stability. <i>Small</i> , <b>2016</b> , 12, 1945-55	11	207

32	Robust synthesis of hierarchical mesoporous hybrid NiOMnCo2O4 microspheres and their application in Lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 392-400	6.7	46
31	Synthesis and electrochemical study of Zr-doped Li[Li0.2Mn0.54Ni0.13Co0.13]O2 as cathode material for Li-ion battery. <i>Ceramics International</i> , <b>2016</b> , 42, 263-269	5.1	129
30	A MoS2 coating strategy to improve the comprehensive electrochemical performance of LiVPO4F. Journal of Power Sources, <b>2016</b> , 315, 294-301	8.9	77
29	Synthesis of nanoparticles-assembled Co 3 O 4 microspheres as anodes for Li-ion batteries by spray pyrolysis of CoCl 2 solution. <i>Electrochimica Acta</i> , <b>2016</b> , 209, 456-463	6.7	33
28	Improving the electrochemical performance of lithium vanadium fluorophosphate cathode material: Focus on interfacial stability. <i>Journal of Power Sources</i> , <b>2016</b> , 329, 553-557	8.9	88
27	Electrochemical properties of LiNi0.6Co0.2Mn0.2O2 as cathode material for Li-ion batteries prepared by ultrasonic spray pyrolysis. <i>Materials Letters</i> , <b>2015</b> , 159, 39-42	3.3	25
26	A novel NiCo2O4 anode morphology for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11970-11975	13	113
25	Facile general strategy toward hierarchical mesoporous transition metal oxides arrays on three-dimensional macroporous foam with superior lithium storage properties. <i>Nano Energy</i> , <b>2015</b> , 13, 77-91	17.1	154
24	Smart construction of three-dimensional hierarchical tubular transition metal oxide core/shell heterostructures with high-capacity and long-cycle-life lithium storage. <i>Nano Energy</i> , <b>2015</b> , 12, 437-446	17.1	200
23	Three-dimensional hierarchical Co3O4/CuO nanowire heterostructure arrays on nickel foam for high-performance lithium ion batteries. <i>Nano Energy</i> , <b>2014</b> , 6, 19-26	17.1	206
22	Nanosized LiVPO4F/graphene composite: A promising anode material for lithium ion batteries. Journal of Power Sources, <b>2014</b> , 251, 325-330	8.9	68
21	Preparation and physicochemical performances of poly[(vinylidene fluoride)-co-hexafluoropropylene]-based composite polymer electrolytes doped with modified carbon nanotubes. <i>Polymer International</i> , <b>2014</b> , 63, 307-314	3.3	8
20	Ethylene sulfate as film formation additive to improve the compatibility of graphite electrode for lithium-ion battery. <i>Ionics</i> , <b>2014</b> , 20, 795-801	2.7	31
19	Synthesis and characterization of Li4Ti5O12/graphene composite as anode material with enhanced electrochemical performance. <i>Ionics</i> , <b>2013</b> , 19, 717-723	2.7	14
18	Effects of Al doping for Li[Li0.09Mn0.65*0.91Ni0.35*0.91]O2 cathode material. <i>Ionics</i> , <b>2013</b> , 19, 1495-15	5 <b>0</b> .17	11
17	Synthesis and electrochemical performance of LiNi0.6Co0.2Mn0.2O2/reduced graphene oxide cathode materials for lithium-ion batteries. <i>Ionics</i> , <b>2013</b> , 19, 1329-1334	2.7	10
16	A low temperature fluorine substitution on the electrochemical performance of layered LiNi0.8Co0.1Mn0.1O2🛮 Fz cathode materials. <i>Electrochimica Acta</i> , <b>2013</b> , 92, 1-8	6.7	81
15	Comparative investigations of LiVPO4F/C and Li3V2(PO4)3/C synthesized in similar soft chemical route. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 1-8	2.6	31

## LIST OF PUBLICATIONS

14	Comprehensive reinvestigation on the initial coulombic efficiency and capacity fading mechanism of LiNi0.5Mn1.5O4 at low rate and elevated temperature. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 1029-1038	2.6	8
13	Capacity fading reason of LiNi0.5Mn1.5O4 with commercial electrolyte. <i>Ionics</i> , <b>2013</b> , 19, 379-383	2.7	17
12	Enhanced electrochemical properties of lithium-reactive V2O5 coated on the LiNi0.8Co0.1Mn0.1O2 cathode material for lithium ion batteries at 60 °C. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1284-1288	13	187
11	Carbonization and graphitization of pitch applied for anode materials of high power lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 1401-1408	2.6	41
10	Effect of synthesis routes on the electrochemical performance of Li[Ni0.6Co0.2Mn0.2]O2 for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 3849-3854	2.6	34
9	Storage performance with different charged state of manganese spinel battery. <i>Ionics</i> , <b>2012</b> , 18, 643-64	<b>18</b> .7	4
8	Performance of PVDF-HFP-based gel polymer electrolytes with different pore forming agents. <i>Iranian Polymer Journal (English Edition)</i> , <b>2012</b> , 21, 755-761	2.3	18
7	Investigation on the storage performance of LiMn2O4 at elevated temperature with the mixture of electrolyte stabilizer. <i>Ionics</i> , <b>2012</b> , 18, 907-911	2.7	7
6	Properties on novel PVDF-HFP-based composite polymer electrolyte with vinyltrimethoxylsilane-modified ZSM-5. <i>Polymer Composites</i> , <b>2012</b> , 33, 629-635	3	12
5	Study on performances of ZSM-5 doped P(VDF-HFP) based composite polymer electrolyte prepared by steam bath technique. <i>Iranian Polymer Journal (English Edition)</i> , <b>2012</b> , 21, 481-488	2.3	6
4	Hydrogen titanate and TiO2 nanowires as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12675		53
3	Improving the electrochemical performance of LiMn2O4/graphite batteries using LiF additive during fabrication. <i>Rare Metals</i> , <b>2011</b> , 30, 120-125	5.5	6
2	Synthesis, Characterization, and Thermal Stability of LiNi1/3Mn1/3Co1/3MgzO2, LiNi1/3Mn1/3Co1/3MgzO2, and LiNi1/3Mn1/3DCo1/3MgzO2D <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1164-1	192	91
1	Performance and capacity fading reason of LiMn2O4/graphite batteries after storing at high temperature. <i>Rare Metals</i> , <b>2009</b> , 28, 322-327	5.5	7