# Xinhai Li

#### List of Publications by Citations

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103
papers

4,427
citations

h-index

64
g-index

103
ext. papers

7.7
ext. citations

7.7
avg, IF

L-index

#	Paper	IF	Citations
103	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
102	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
101	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
100	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
99	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
98	Lightweight Reduced Graphene Oxide@MoS Interlayer as Polysulfide Barrier for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 3707-3713	9.5	182
97	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
96	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
95	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
94	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
93	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
92	A novel NiCo2O4 anode morphology for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11970-11975	13	113
91	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
90	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
89	Accurate construction of a hierarchical nickellobalt oxide multishell yolklhell structure with large and ultrafast lithium storage capability. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14996-15001	13	94
88	Synthesis, Characterization, and Thermal Stability of LiNi1/3Mn1/3Co1/3dMgzO2, LiNi1/3dMn1/3Co1/3MgzO2, and LiNi1/3dMn1/3dCo1/3MgzO2d Chemistry of Materials, <b>2010</b> , 22, 1164-1	192	91
87	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

## (2016-2017)

86	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
85	A low temperature fluorine substitution on the electrochemical performance of layered LiNi0.8Co0.1Mn0.1O2ØFz cathode materials. <i>Electrochimica Acta</i> , <b>2013</b> , 92, 1-8	6.7	81
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	Hydrogen titanate and TiO2 nanowires as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12675		53
76	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
75	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
74	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
73	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, 2139-2145	3.5	40
72	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	40
71	Spinel-embedded and Li3PO4 modified Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode materials for High-Performance Li-lon battries. <i>Applied Surface Science</i> , <b>2018</b> , 456, 763-770	6.7	38
70	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
69	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

68	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
67	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
66	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
65	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
64	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
63	A novel dried plum-like yolk@hell 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
62	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
61	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
60	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
59	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
58	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	l3 <b>7</b> 0-14	13 <del>76</del>
57	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
56	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
55	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
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	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
52	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
51	Capacity fading reason of LiNi0.5Mn1.5O4 with commercial electrolyte. <i>Ionics</i> , <b>2013</b> , 19, 379-383	2.7	17

## (2013-2020)

50	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	
49	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	
48	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	
47	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	
46	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	
45	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	
44	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	
43	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	
42	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	
41	Modification of Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode with EMoO3 via a simple wet chemical coating process. <i>Applied Surface Science</i> , <b>2019</b> , 479, 1277-1286	6.7	14	
40	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	
39	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	
38	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	
37	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	
36	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	
35	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	
34	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	
33	Effects of Al doping for Li[Li0.09Mn0.65*0.91Ni0.35*0.91]O2 cathode material. <i>lonics</i> , <b>2013</b> , 19, 1495-15	5 <b>0</b> .17	11	

32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	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
18	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
17	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
16	Controlled Synthesis of NixCoyS4/rGO Composites for Constructing High-Performance Asymmetric Supercapacitor. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	7
15	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

#### LIST OF PUBLICATIONS

14	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
13	The influences of SO42Ifrom electrolytic manganese dioxide precursor on the electrochemical properties of Li-rich Mn-based material for Li-ion batteries. <i>Jonics</i> , <b>2019</b> , 25, 2585-2594	2.7	7
12	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
11	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
10	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
9	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
8	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
7	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
6	Storage performance with different charged state of manganese spinel battery. <i>Ionics</i> , <b>2012</b> , 18, 643-64	<b>18</b> .7	4
5	A Renewable Sedimentary Slurry Battery: Preliminary Study in Zinc Electrodes. <i>IScience</i> , <b>2020</b> , 23, 10182	26.1	4
4	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 Processing Science</i> , <b>2018</b> , 49, 1834-1840	2.5	3
3	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
2	First principles calculation of Li2+2xZn1-xSiO4 (x\□0.1250.5) as solid electrolyte for lithium-ion battery. <i>Solid State Ionics</i> , <b>2021</b> , 371, 115767	3.3	2
1	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	0