

Shi-you Li

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of sulfolane on the performance of lithium bis(oxalato)borate-based electrolytes for advanced lithium ion batteries. <i>Electrochimica Acta</i> , 2012, 65, 221-227.	5.2	79
2	Which of the nickel-rich NCM and NCA is structurally superior as a cathode material for lithium-ion batteries?. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13540-13551.	10.3	71
3	In-situ construction of porous Si@C composites with LiCl template to provide silicon anode expansion buffer. <i>Carbon</i> , 2021, 173, 687-695.	10.3	63
4	Composition analysis of the solid electrolyte interphase film on carbon electrode of lithium-ion battery based on lithium difluoro(oxalate)borate and sulfolane. <i>Journal of Power Sources</i> , 2012, 217, 503-508.	7.8	62
5	Electrochemical performances of a novel high-voltage electrolyte based upon sulfolane and γ -butyrolactone. <i>Journal of Power Sources</i> , 2013, 240, 476-485.	7.8	61
6	An improved method for synthesis of lithium difluoro(oxalato)borate and effects of sulfolane on the electrochemical performances of lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 91, 282-292.	5.2	61
7	Studies on Electrochemical Performances of Novel Electrolytes for Wide-Temperature-Range Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4920-4926.	8.0	61
8	Enhanced Structural Stability of Boron-Doped Layered@Spinel@Carbon Heterostructured Lithium-Rich Manganese-Based Cathode Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9311-9324.	6.7	60
9	Electrochemical performances of two kinds of electrolytes based on lithium bis(oxalate)borate and sulfolane for advanced lithium ion batteries. <i>Journal of Power Sources</i> , 2012, 209, 295-300.	7.8	57
10	Electrochemical effect and mechanism of adiponitrile additive for high-voltage electrolyte. <i>Electrochimica Acta</i> , 2016, 222, 668-677.	5.2	56
11	A low-temperature electrolyte for lithium-ion batteries. <i>Ionics</i> , 2015, 21, 901-907.	2.4	46
12	Insights into the improved cycle and rate performance by ex-situ F and in-situ Mg dual doping of layered oxide cathodes for sodium-ion batteries. <i>Energy Storage Materials</i> , 2022, 45, 1153-1164.	18.0	43
13	Synthesis and electrochemical characterization of Mg-Al co-doped Li-rich Mn-based cathode materials. <i>New Journal of Chemistry</i> , 2019, 43, 12004-12012.	2.8	42
14	Synergism of Cu and Al co-doping on improvements of structural integrity and electrochemical performance for LiNi _{0.5} Mn _{1.5} O ₄ . <i>Journal of Alloys and Compounds</i> , 2020, 820, 153140.	5.5	40
15	Understanding the role of Mg-doped on core-shell structured layered oxide LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ . <i>Electrochimica Acta</i> , 2019, 319, 822-831.	5.2	39
16	Effect of temperature on formation and evolution of solid electrolyte interphase on Si@Graphite@C anodes. <i>Journal of Energy Chemistry</i> , 2022, 64, 190-200.	12.9	39
17	New insight into the mechanism of LiPO ₂ F ₂ on the interface of high-voltage cathode LiNi _{0.5} Mn _{1.5} O ₄ with truncated octahedral structure. <i>Applied Surface Science</i> , 2019, 491, 595-606.	6.1	36
18	Electrochemical performance of electrolytes based upon lithium bis(oxalate)borate and sulfolane/alkyl sulfite mixtures for high temperature lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 79, 197-201.	5.2	35

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19	Tailoring interfacial architecture of high-voltage cathode with lithium difluoro(bisoxalato) phosphate for high energy density battery. <i>Journal of Power Sources</i> , 2020, 456, 228006.	7.8	35
20	Compatibility between LiNi _{0.5} Mn _{1.5} O ₄ and electrolyte based upon lithium bis(oxalato)borate and sulfolane for high voltage lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 104, 134-139.	5.2	34
21	Adjusting the solvation structure with tris(trimethylsilyl)borate additive to improve the performance of LNCM half cells. <i>Journal of Energy Chemistry</i> , 2022, 67, 55-64.	12.9	32
22	The influence of the voltage plateau on the coulombic efficiency and capacity degradation in LiNi _{0.5} Mn _{1.5} O ₄ materials. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153443.	5.5	27
23	Mixed Salts of Lithium Difluoro (Oxalato) Borate and Lithium Tetrafluoroborate Electrolyte on Low-Temperature Performance for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1873-A1880.	2.9	26
24	Robust and sulfur-containing ingredient surface film to improve the electrochemical performance of LiDFOB-based high-voltage electrolyte. <i>Electrochimica Acta</i> , 2018, 260, 536-548.	5.2	25
25	Influences of trace water on electrochemical performances for lithium hexafluoro phosphate- and lithium Bis(oxalato)borate-based electrolytes. <i>Electrochimica Acta</i> , 2018, 273, 191-199.	5.2	24
26	Improving Mn tolerance of lithium-ion batteries by using lithium bis(oxalato)borate-based electrolyte. <i>Electrochimica Acta</i> , 2017, 253, 291-301.	5.2	23
27	Regulating the composition distribution of layered SEI film on Li-ion battery anode by LiDFBOP. <i>Electrochimica Acta</i> , 2020, 337, 135745.	5.2	23
28	Compatibility between lithium difluoro (oxalato) borate-based electrolytes and Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 688-696.	3.8	22
29	Mechanism of aluminum corrosion in LiFSI-based electrolyte at elevated temperatures. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 1439-1451.	4.2	22
30	Using a lithium difluoro(sulfato)borate additive to improve electrochemical performance of electrolyte based on lithium bis(oxalato)borate for LiNi _{0.5} Mn _{1.5} O ₄ /Li cells. <i>Electrochimica Acta</i> , 2015, 155, 321-326.	5.2	21
31	Active Mechanism of the Interphase Film-Forming Process for an Electrolyte Based on a Sulfolane Solvent and a Chelato-Borate Complex. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25744-25753.	8.0	21
32	Regulating the Performance of Lithium-Ion Battery Focus on the Electrode-Electrolyte Interface. <i>Frontiers in Chemistry</i> , 2020, 8, 821.	3.6	21
33	Antioxidation Mechanism of Highly Concentrated Electrolytes at High Voltage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59580-59590.	8.0	20
34	New Insights for the Abuse Tolerance Behavior of LiMn ₂ O ₄ under High Cut-off Potential Conditions. <i>ChemElectroChem</i> , 2019, 6, 731-740.	3.4	19
35	Enhanced electrochemical properties of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode material by the diffusional Al ₂ O ₃ coating layer. <i>Ionics</i> , 2019, 25, 411-419.	2.4	18
36	Synergistic effect of sulfolane and lithium Difluoro(oxalato)borate on improvement of compatibility for LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ electrode. <i>Electrochimica Acta</i> , 2020, 337, 135727.	5.2	18

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37	Targeted research on the single role of lithium Bis(oxalate)borate in the film-forming process through a novel lithium salt-free electrolyte system. <i>Journal of Power Sources</i> , 2020, 471, 228426.	7.8	17
38	Effects of soluble products decomposed from chelato-borate additives on formation of solid electrolyte interface layers. <i>Journal of Power Sources</i> , 2022, 535, 231451.	7.8	17
39	Granularity control enables high stability and elevated-temperature properties of micron-sized single-crystal LiNi _{0.5} Mn _{1.5} O ₄ cathodes at high voltage. <i>Journal of Materiomics</i> , 2021, 7, 1049-1060.	5.7	16
40	Nanosized LiNi _{0.5} Mn _{1.5} O ₄ spinels synthesized by a high-oxidation-state manganese sol-gel method. <i>Ionics</i> , 2013, 19, 1489-1494.	2.4	15
41	Optimization of LiFePO ₄ cathode material based on phosphorus doped graphite network structure for lithium ion batteries. <i>Ionics</i> , 2019, 25, 927-937.	2.4	14
42	Boron and Phosphorus Dual-Doped Carbon Coating Improves Electrochemical Performances of LiFe _{0.8} Mn _{0.2} PO ₄ Cathode Materials. <i>ACS Applied Energy Materials</i> , 2021, 4, 8003-8015.	5.1	14
43	Design and performance improvement of SiNPs@graphene@C composite with a popcorn structure. <i>Journal of Energy Chemistry</i> , 2022, 72, 405-415.	12.9	14
44	Investigation on electrochemical performance at the low temperature of LFP/C-P composite based on phosphorus doping carbon network. <i>Ionics</i> , 2020, 26, 3795-3808.	2.4	13
45	Truncated octahedral LiNi _{0.5} Mn _{1.5} O ₄ with excellent electrochemical properties for lithium-ion batteries prepared by a graphite assisted calcination method. <i>New Journal of Chemistry</i> , 2019, 43, 15396-15404.	2.8	12
46	Electrochemical performances of a novel lithium bis(oxalate)borate-based electrolyte for lithium-ion batteries with LiFePO ₄ cathodes. <i>Ionics</i> , 2014, 20, 789-794.	2.4	11
47	Studies of air-exposure effects and remediation measures on lithium bis(oxalato)borate. <i>New Journal of Chemistry</i> , 2019, 43, 14238-14245.	2.8	11
48	Effects of LiBF ₄ concentration in carbonate-based electrolyte on the stability of high-voltage LiNi _{0.5} Mn _{1.5} O ₄ cathode. <i>Ionics</i> , 2019, 25, 3623-3631.	2.4	11
49	Which is the winner between the single-crystalline and polycrystalline LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ cathode in the lithium-ion battery?. <i>Materials Today Energy</i> , 2021, 22, 100873.	4.7	11
50	Study on electrochemical performance of Al-substitution for different cations in Li-rich Mn-based materials. <i>Electrochimica Acta</i> , 2021, 394, 139136.	5.2	11
51	Lithium difluoro(sulfato)borate as a salt for the electrolyte of advanced lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 14942.	3.6	10
52	Pretreatment of Graphite Anodes with Lithium Sulfate to Improve the Cycle Performance of Lithium-ion Batteries. <i>Energy Technology</i> , 2017, 5, 549-556.	3.8	10
53	Optimizing transition metal ion ratio of LiNi _{0.5+x} Co _{0.2+y} Mn _{0.3+z} O ₂ (x+y+z=0) by simplex and normalization combined method. <i>Electrochimica Acta</i> , 2020, 337, 135709.	5.2	10
54	Selection of Sodium Salt Electrolyte Compatible with Na _{0.67} Ni _{0.15} Fe _{0.2} Mn _{0.65} O ₂ Cathode for Sodium-ion Batteries. <i>Energy Technology</i> , 2021, 9, 2100190.	3.8	10

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55	An Interfacial Mechanism of Chelate-Borate Electrolyte Additives in Ni-Rich $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ Cathodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 12525-12534.	5.1	9
56	Improve the Electrochemical Performance of $\text{Na}_2\text{Ti}_3\text{O}_7$ Nanorod through Pitch Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4247-4257.	6.7	9
57	Mn_3O_4 nano-sized crystals: Rapid synthesis and extension to preparation of nanosized LiMn_2O_4 materials. <i>Journal of Chemical Sciences</i> , 2014, 126, 561-567.	1.5	8
58	Effect of sulfolane and lithium bis(oxalato)borate-based electrolytes on the performance of spinel LiMn_2O_4 cathodes at 55°C . <i>Ionics</i> , 2016, 22, 797-801.	2.4	8
59	Synthesis, Water-Removing Method and Influences of Trace Water for LiBF_4 . <i>ChemistrySelect</i> , 2019, 4, 5853-5859.	1.5	8
60	Modification of phosphorus-doped carbon coating enhances the electrochemical performance of $\text{LiFe}_{0.8}\text{Mn}_{0.2}\text{PO}_4$ cathode material. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160946.	5.5	8
61	Destructive effects of transitional metal ions on interfacial film of carbon anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2022, 417, 140334.	5.2	8
62	Effect of sulfolane on the morphology and chemical composition of the solid electrolyte interphase layer in lithium bis(oxalato)borate-based electrolyte. <i>Surface and Interface Analysis</i> , 2014, 46, 48-55.	1.8	7
63	Compatibility of lithium difluoro(sulfato)borate-based electrolyte for LiMn_2O_4 cathode. <i>Applied Surface Science</i> , 2015, 330, 316-320.	6.1	7
64	Study on boron-containing electrolytes at extra-high temperatures for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4126-4136.	4.9	7
65	Influences and Mechanisms of Water on a Solid Electrolyte Interphase Film for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 1199-1207.	5.1	7
66	Electrochemical performance of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ doped with Ia and its compatibility with new electrolyte system. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 363-369.	0.9	6
67	Compatibility between Lithium Bis(oxalate)borate-Based Electrolytes and a $\text{LiFe}_{0.6}\text{Mn}_{0.4}\text{PO}_4/\text{C}$ Cathode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 406-413.	3.8	6
68	Improvement of Interfacial Stability for $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode: Insight into the Effect and Mechanism of Additive with Special Structure. <i>Energy Technology</i> , 2018, 6, 2450-2460.	3.8	6
69	Effects of different precipitants on $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ for lithium ion batteries prepared by modified co-precipitation method. <i>Ionics</i> , 2017, 23, 2993-2999.	2.4	5
70	Synthesis of a three-dimensional cross-linked NiV_2O_5 nanomaterial in an ionic liquid for lithium-ion batteries. <i>RSC Advances</i> , 2020, 10, 39137-39145.	3.6	5
71	Investigation on the temperature tolerance of LiMn_2O_4 in lithium-ion batteries. <i>New Journal of Chemistry</i> , 2020, 44, 9540-9545.	2.8	5
72	Spinel/layered heterostructured Li-rich Mn-based cathode material for high-capacity and high-rate Li-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5376-5384.	2.2	5

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73	Structural evolution of nickel-rich layered cathode material $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ at different current rates. <i>Ionics</i> , 2021, 27, 517-526.	2.4	5
74	Optimizing the composition of LiFSI-based electrolytes by a method combining simplex with normalization. <i>RSC Advances</i> , 2021, 11, 26102-26109.	3.6	5
75	Improved electrochemical properties of nickel rich $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ cathode materials by Al_2O_3 coating. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
76	Boosting the comprehensive performance for a Co-free high-voltage system with a multi-component nitrile. <i>New Journal of Chemistry</i> , 2021, 45, 20681-20689.	2.8	4
77	Anions Tuned Solid Electrolyte Interphase in Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	4
78	Improved electrochemical performance of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ cathode material synthesized by citric acid assisted sol-gel method for lithium ion batteries. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
79	Synthesis of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ nano/microspheres with adjustable hollow structures for lithium-ion battery. <i>Ionics</i> , 2018, 24, 681-688.	2.4	3
80	Elevated electrochemical property of LiMn_2O_4 originated from nano-sized Mn_3O_4 . <i>Ionics</i> , 2018, 24, 697-706.	2.4	3
81	Enhanced Electrochemical Performance of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Materials by Al_2O_3 Coating. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	2.1	3
82	Ionothermal Synthesis of Cobalt Vanadate Nanoparticles As High-Performance Anode Materials for Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 0, , 1.	2.2	3
83	Analysis of Main Factors Limiting the Improvement of Electrochemical Performances of Low-Concentration Electrolyte. <i>Energy Technology</i> , 2022, 10, .	3.8	3
84	Enhancing the interfacial stability of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ cathode materials by a surface-concentration gradient strategy. <i>Dalton Transactions</i> , 2021, 50, 14187-14195.	3.3	2
85	Exploring the action mechanism of magnesium in different cations sites for $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathode materials. <i>Materials Today Sustainability</i> , 2022, 17, 100105.	4.1	2
86	Study on High Temperature Film Formation of LiBOB Lithium Salt. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 153, 022024.	0.3	1
87	Study of SEI forming process with Li BOB-DMS/SL electrolyte in first cycle. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
88	Preparation of a truncated octahedron $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ by a solid-state method with high electrochemical performance. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
89	Simultaneously Dual Modification of a Ternary Cathode Material by Aluminum Bis(oxalato)borate-Based Electrolyte. <i>ACS Applied Energy Materials</i> , 2021, 4, 1601-1609.	5.1	0