

Yun-Jian Liu

List of Publications by Year in descending order

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57
papers

2,470
citations

218381

26
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197535

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all docs

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docs citations

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times ranked

1931
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress of surface coating on cathode materials for high-performance lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 43, 220-235.	7.1	272
2	A cation/anion co-doped $\text{Li}_{1.12}\text{Na}_{0.08}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_{1.95}\text{F}_{0.05}$ cathode for lithium ion batteries. <i>Nano Energy</i> , 2019, 58, 786-796.	8.2	222
3	Density Functional Theory Calculations for Insight into the Heterocatalyst Reactivity and Mechanism in Persulfate-Based Advanced Oxidation Reactions. <i>ACS Catalysis</i> , 2021, 11, 11129-11159.	5.5	190
4	An integrated surface coating strategy to enhance the electrochemical performance of nickel-rich layered cathodes. <i>Nano Energy</i> , 2022, 91, 106665.	8.2	143
5	Enhanced Electrochemical Performance of Ni-Rich Cathode Materials with $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5819-5830.	3.2	118
6	Enhanced Electrochemical Performance of Li-Rich Layered Cathode Materials by Combined Cr Doping and LiAlO_2 Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2225-2235.	3.2	116
7	Effect of carbon nanotube on the electrochemical performance of C-LiFePO ₄ /graphite battery. <i>Journal of Power Sources</i> , 2008, 184, 522-526.	4.0	106
8	Multi-layered carbon coated Si-based composite as anode for lithium-ion batteries. <i>Powder Technology</i> , 2018, 323, 294-300.	2.1	97
9	Synthesis and Mechanism of High Structural Stability of Nickel-Rich Cathode Materials by Adjusting Li-Excess. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40393-40403.	4.0	93
10	Recent Progress in Lithium Lanthanum Titanate Electrolyte towards All Solid-State Lithium Ion Secondary Battery. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 265-282.	6.8	69
11	Electrochemical performance of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ coated with a facily synthesized $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$. <i>Journal of Power Sources</i> , 2018, 403, 27-37.	4.0	64
12	Improved Cycling Stability of Na-Doped Cathode Materials $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ via a Facile Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13045-13055.	3.2	56
13	Electrochemistry and redox characterization of rock-salt-type lithium metal oxides $\text{Li}_{1+z/3}\text{Ni}_{1/2-z/2}\text{Ti}_{1/2+z/6}\text{O}_2$ for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 773, 1-10.	2.8	54
14	Improving the Structure Stability of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ by Double Modification of Tantalum Surface Coating and Doping. <i>ACS Applied Energy Materials</i> , 2021, 4, 8641-8652.	2.5	52
15	Investigation the electrochemical performance of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ cathode material with ZnAl_2O_4 coating for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 685, 523-532.	2.8	50
16	Carbon-coated cation-disordered rocksalt-type transition metal oxide composites for high energy Li-ion batteries. <i>Ceramics International</i> , 2021, 47, 1758-1765.	2.3	50
17	Oxide-based cathode materials for rechargeable zinc ion batteries: Progresses and challenges. <i>Journal of Energy Chemistry</i> , 2021, 57, 516-542.	7.1	48
18	Influence of Nb Doping on Electrochemical Performance of Nanostructured Cation Disordered $\text{Li}_{1+x}\text{Ni}_{1/2}\text{Ti}_{1/2}\text{Nb}_x\text{O}_2$ Composites Cathode for Li-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 452-459.	0.9	44

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19	Revisiting recent and traditional strategies for surface protection of Zn metal anode. <i>Journal of Power Sources</i> , 2022, 525, 231122.	4.0	41
20	Enhanced electrochemical performances of layered cathode material $\text{Li}_{1.5}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_{2.5}$ by coating with LiAlO_2 . <i>Journal of Alloys and Compounds</i> , 2015, 638, 1-6.	2.8	35
21	Influence of Li content on the structure and electrochemical performance of $\text{Li}_{1+x}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_{2.25+x/2}$ cathode for Li-ion battery. <i>Journal of Power Sources</i> , 2014, 248, 679-684.	4.0	33
22	Silicon@graphene composite prepared by spray-drying method as anode for lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 844, 86-90.	1.9	32
23	Synthesis and Redox Mechanism of Cation-Disordered, Rock-Salt Cathode-Material LiNiTiNbO Compounds for a Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35777-35787.	4.0	31
24	Self-sacrificial-reaction guided formation of hierarchical electronic/ionic conductive shell enabling high-performance nano-silicon anode. <i>Chemical Engineering Journal</i> , 2021, 415, 128998.	6.6	31
25	Sodium ion stabilized ammonium vanadate as a high-performance aqueous zinc-ion battery cathode. <i>Chemical Engineering Journal</i> , 2022, 446, 137090.	6.6	31
26	High-rate capability of columbite CuNb_2O_6 anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2021, 284, 128915.	1.3	30
27	Improvement of storage performance of $\text{LiMn}_2\text{O}_4/\text{graphite}$ battery with AlF_3 -coated LiMn_2O_4 . <i>Ionics</i> , 2013, 19, 1241-1246.	1.2	26
28	Synthesis of a novel hexagonal porous $\text{TT-Nb}_2\text{O}_5$ via solid state reaction for high-performance lithium ion battery anodes. <i>Journal of Central South University</i> , 2020, 27, 3625-3636.	1.2	26
29	Design and tailoring of carbon- Al_2O_3 double coated nickel-based cation-disordered cathodes towards high-performance Li-ion batteries. <i>Nano Energy</i> , 2022, 96, 107071.	8.2	26
30	Synthesis and electrochemical properties of cation-disordered Li-Ni-Ti-O compounds as cathode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 728, 659-668.	2.8	22
31	High-rate capability of carbon-coated micron-sized hexagonal $\text{TT-Nb}_2\text{O}_5$ composites for lithium-ion battery. <i>Ceramics International</i> , 2021, 47, 15400-15407.	2.3	21
32	Investigation the electrochemical performance of layered cathode material $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ coated with $\text{Li}_4\text{Ti}_5\text{O}_{12}$. <i>Advanced Powder Technology</i> , 2016, 27, 1481-1487.	2.0	20
33	Enhanced structure and electrochemical stability of single crystal nickel-rich cathode material by $\text{La}_2\text{Li}_{0.5}\text{Co}_{0.5}\text{O}_4$ surface coating. <i>Ceramics International</i> , 2022, 48, 17548-17555.	2.3	20
34	Improvement electrochemical performance of $\text{Li}_{1.5}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_{2.5}$ with $\text{Li}_4\text{Ti}_5\text{O}_{12}$ coating. <i>Ionics</i> , 2014, 20, 739-745.	1.2	19
35	Improvement the electrochemical performance of Cr doped layered-spinel composite cathode material $\text{Li}_{1.1}\text{Ni}_{0.235}\text{Mn}_{0.735}\text{Cr}_{0.03}\text{O}_{2.3}$ with $\text{Li}_4\text{Ti}_5\text{O}_{12}$ coating. <i>Ceramics International</i> , 2017, 43, 8800-8808.	2.3	19
36	Rechargeable hybrid organic Zn battery (ReHOZnB) with non-flammable electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2022, 904, 115949.	1.9	19

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37	Effect of cooling method on the electrochemical performance of layered-spinel composite cathode $\text{Li}_{1.1}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_{2.3}$. <i>Journal of Alloys and Compounds</i> , 2015, 646, 112-118.	2.8	15
38	Synthesis and electrochemical performance of Li_3NbO_4 -based cation-disordered rock-salt cathode materials for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 797, 961-969.	2.8	12
39	Metallurgy of aluminum-inspired formation of aluminosilicate-coated nanosilicon for lithium-ion battery anode. <i>Rare Metals</i> , 2022, 41, 1880-1888.	3.6	12
40	Comparison of structural and electrochemical properties of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ with Li site doping by different cations. <i>Applied Surface Science</i> , 2022, 599, 153933.	3.1	11
41	Performance and capacity fading reason of LiMn_2O_4 /graphite batteries after storing at high temperature. <i>Rare Metals</i> , 2009, 28, 322-327.	3.6	10
42	High cycling performance Si/CNTs@C composite material prepared by spray-drying method. <i>Ionics</i> , 2017, 23, 405-410.	1.2	10
43	Effect of binders on performance of Si/C composite as anode for Li-ion batteries. <i>Ionics</i> , 2019, 25, 2103-2109.	1.2	10
44	Overcharge performance of LiMn_2O_4 /graphite battery with large capacity. <i>Central South University</i> , 2009, 16, 763-767.	0.5	8
45	Improving the electrochemical performance of LiMn_2O_4 /graphite batteries using LiF additive during fabrication. <i>Rare Metals</i> , 2011, 30, 120-125.	3.6	7
46	Improvement of electrochemical performance of layered manganese enriched electrode material with the coating of $\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_x$ composite oxides. <i>Journal of Alloys and Compounds</i> , 2014, 605, 1-6.	2.8	7
47	Investigation of the structural and electrochemical performance of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ with Cr doping. <i>Ionics</i> , 2018, 24, 2251-2259.	1.2	7
48	Comparison of fluorine sources on the electrochemical property of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ cathode materials. <i>Functional Materials Letters</i> , 2020, 13, 2050027.	0.7	7
49	Facile synthesis of Si/NiSi ₂ /C composite derived from metal-organic frameworks for high-performance lithium-ion battery anode. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114398.	1.9	7
50	Al_2O_3 coating for improving thermal stability performance of manganese spinel battery. <i>Central South University</i> , 2011, 18, 1844-1848.	0.5	6
51	Sphere-like TiO_2 /Si anode material with superior performance for lithium ion batteries. <i>Ionics</i> , 2020, 26, 5349-5355.	1.2	5
52	Storage performance with different charged state of manganese spinel battery. <i>Ionics</i> , 2012, 18, 643-648.	1.2	4
53	Synthesis and performance of micron-sized hexagonal $\text{W}_{0.025}\text{Nb}_{1.975}\text{O}_5$ for high-rate lithium-ion batteries. <i>Ceramics International</i> , 2022, 48, 27815-27822.	2.3	4
54	Facile preparation of SGC composite as anode for lithium-ion batteries. <i>Ionics</i> , 2018, 24, 2575-2581.	1.2	2

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55	Improvement the electrochemical performance of Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ electrode with AlF ₃ added. Journal of Shanghai Jiaotong University (Science), 2012, 17, 697-700.	0.5	0
56	Effect of Hydrofluoric Acid Etching on Performance of Si/C Composite as Anode Material for Lithium-Ion Batteries. Journal of Nanomaterials, 2018, 2018, 1-6.	1.5	0
57	A facile fabrication of nanometer tetragonal rod-like SnO ₂ as anode for lithium ion batteries. Ionics, 2021, 27, 4731-4737.	1.2	0