Yun-Jian Liu

List of Publications by Year
in descending order

57 papers	2,470 citations	218381 26 h-index	197535 49 g-index
57 all docs	57 docs citations	57 times ranked	1931 citing authors

#	Article	IF	Citations
1	An integrated surface coating strategy to enhance the electrochemical performance of nickel-rich layered cathodes. Nano Energy, 2022, 91, 106665.	8.2	143
2	Rechargeable hybrid organic Zn battery (ReHOZnB) with non-flammable electrolyte. Journal of Electroanalytical Chemistry, 2022, 904, 115949.	1.9	19
3	Revisiting recent and traditional strategies for surface protection of Zn metal anode. Journal of Power Sources, 2022, 525, 231122.	4.0	41
4	Enhanced structure and electrochemical stability of single crystal nickel-rich cathode material by La2Li0.5Co0.5O4 surface coating. Ceramics International, 2022, 48, 17548-17555.	2.3	20
5	Metallurgy of aluminum-inspired formation of aluminosilicate-coated nanosilicon for lithium-ion battery anode. Rare Metals, 2022, 41, 1880-1888.	3.6	12
6	Design and tailoring of carbon-Al2O3 double coated nickel-based cation-disordered cathodes towards high-performance Li-ion batteries. Nano Energy, 2022, 96, 107071.	8.2	26
7	Sodium ion stabilized ammonium vanadate as a high-performance aqueous zinc-ion battery cathode. Chemical Engineering Journal, 2022, 446, 137090.	6.6	31
8	Synthesis and performance of micron-sized hexagonal W0.025Nb1.97O5 for high-rate lithium-ion batteries. Ceramics International, 2022, 48, 27815-27822.	2.3	4
9	Comparison of structural and electrochemical properties of LiNi0.8Co0.15Al0.05O2 with Li site doping by different cations. Applied Surface Science, 2022, 599, 153933.	3.1	11
10	Oxide-based cathode materials for rechargeable zinc ion batteries: Progresses and challenges. Journal of Energy Chemistry, 2021, 57, 516-542.	7.1	48
11	Carbon-coated cation-disordered rocksalt-type transition metal oxide composites for high energy Li-ion batteries. Ceramics International, 2021, 47, 1758-1765.	2.3	50
12	High-rate capability of columbite CuNb2O6 anode materials for lithium-ion batteries. Materials Letters, 2021, 284, 128915.	1.3	30
13	High-rate capability of carbon-coated micron-sized hexagonal TT-Nb2O5 composites for lithium-ion battery. Ceramics International, 2021, 47, 15400-15407.	2.3	21
14	Self-sacrificial-reaction guided formation of hierarchical electronic/ionic conductive shell enabling high-performance nano-silicon anode. Chemical Engineering Journal, 2021, 415, 128998.	6.6	31
15	Improving the Structure Stability of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ by Double Modification of Tantalum Surface Coating and Doping. ACS Applied Energy Materials, 2021, 4, 8641-8652.	2.5	52
16	Density Functional Theory Calculations for Insight into the Heterocatalyst Reactivity and Mechanism in Persulfate-Based Advanced Oxidation Reactions. ACS Catalysis, 2021, 11, 11129-11159.	5.5	190
17	A facile fabrication of nanometer tetragonal rodâ€“like SnO2 as anode for lithium ion batteries. Ionics, 2021, 27, 4731-4737.	1.2	0
18	Recent progress of surface coating on cathode materials for high-performance lithium-ion batteries. Journal of Energy Chemistry, 2020, 43, 220-235.	7.1	272

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19	Influence of Nb Doping on Electrochemical Performance of Nanostructured Cation Disordered Li_{1+x/100}Ni_{1/2â€“x/100}Ti_{1/2â€“x/100}Nb_{x/100}O<sub> Composites Cathode for Li-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2020, 20, 452-459.	0.9	44
20	Sphere-like TiO2/Si anode material with superior performance for lithium ion batteries. Ionics, 2020, 26, 5349-5355.	1.2	5
21	Synthesis and Mechanism of High Structural Stability of Nickel-Rich Cathode Materials by Adjusting Li-Excess. ACS Applied Materials & Interfaces, 2020, 12, 40393-40403.	4.0	93
22	Comparison of fluorine sources on the electrochemical property of Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ cathode materials. Functional Materials Letters, 2020, 13, 2050027.	0.7	7
23	Facile synthesis of Si/NiSi2/C composite derived from metal-organic frameworks for high-performance lithium-ion battery anode. Journal of Electroanalytical Chemistry, 2020, 873, 114398.	1.9	7
24	Enhanced Electrochemical Performance of Ni-Rich Cathode Materials with Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ Coating. ACS Sustainable Chemistry and Engineering, 2020, 8, 5819-5830.	3.2	118
25	Synthesis of a novel hexagonal porous TT-Nb2O5 via solid state reaction for high-performance lithium ion battery anodes. Journal of Central South University, 2020, 27, 3625-3636.	1.2	26
26	Effect of binders on performance of Si/C composite as anode for Li-ion batteries. Ionics, 2019, 25, 2103-2109.	1.2	10
27	Synthesis and Redox Mechanism of Cation-Disordered, Rock-Salt Cathode-Material Liâ€“Niâ€“Tiâ€“Nbâ€“O Compounds for a Li-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 35777-35787.	4.0	31
28	A cation/anion co-doped Li1.12Na0.08Ni0.2Mn0.6O1.95F0.05 cathode for lithium ion batteries. Nano Energy, 2019, 58, 786-796.	8.2	222
29	Silicon@graphene composite prepared by sprayâ€“drying method as anode for lithium ion batteries. Journal of Electroanalytical Chemistry, 2019, 844, 86-90.	1.9	32
30	Synthesis and electrochemical performance of Li3NbO4-based cation-disordered rock-salt cathode materials for Li-ion batteries. Journal of Alloys and Compounds, 2019, 797, 961-969.	2.8	12
31	Enhanced Electrochemical Performance of Li-Rich Layered Cathode Materials by Combined Cr Doping and LiAlO₂ Coating. ACS Sustainable Chemistry and Engineering, 2019, 7, 2225-2235.	3.2	116
32	Recent Progress in Lithium Lanthanum Titanate Electrolyte towards All Solid-State Lithium Ion Secondary Battery. Critical Reviews in Solid State and Materials Sciences, 2019, 44, 265-282.	6.8	69
33	Electrochemistry and redox characterization of rock-salt-type lithium metal oxides Li1+z/3Ni1/2-z/2Ti1/2+z/6O2 for Li-ion batteries. Journal of Alloys and Compounds, 2019, 773, 1-10.	2.8	54
34	Facile preparation of SGC composite as anode for lithium-ion batteries. Ionics, 2018, 24, 2575-2581.	1.2	2
35	Multi-layered carbon coated Si-based composite as anode for lithium-ion batteries. Powder Technology, 2018, 323, 294-300.	2.1	97
36	Investigation of the structural and electrochemical performance of Li1.2Ni0.2Mn0.6O2 with Cr doping. Ionics, 2018, 24, 2251-2259.	1.2	7

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37	Electrochemical performance of Li1.2Ni0.2Mn0.6O2 coated with a facilely synthesized Li1.3Al0.3Ti1.7(PO4)3. Journal of Power Sources, 2018, 403, 27-37.	4.0	64
38	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
39	Improved Cycling Stability of Na-Doped Cathode Materials Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ via a Facile Synthesis. ACS Sustainable Chemistry and Engineering, 2018, 6, 13045-13055.	3.2	56
40	Improvement the electrochemical performance of Cr doped layered-spinel composite cathode material Li 1.1 Ni 0.235 Mn 0.735 Cr 0.03 O 2.3 with Li 4 Ti 5 O 12 coating. Ceramics International, 2017, 43, 8800-8808.	2.3	19
41	High cycling performance Si/CNTs@C composite material prepared by sprayâ€“drying method. Ionics, 2017, 23, 405-410.	1.2	10
42	Synthesis and electrochemical properties of cation-disordered Li-Ni-Ti-O compounds as cathode material for lithium ion batteries. Journal of Alloys and Compounds, 2017, 728, 659-668.	2.8	22
43	Investigation the electrochemical performance of layered cathode material Li 1.2 Ni 0.2 Mn 0.6 O 2 coated with Li 4 Ti 5 O 12. Advanced Powder Technology, 2016, 27, 1481-1487.	2.0	20
44	Investigation the electrochemical performance of Li1.2Ni0.2Mn0.6O2 cathode material with ZnAl2O4 coating for lithium ion batteries. Journal of Alloys and Compounds, 2016, 685, 523-532.	2.8	50
45	Enhanced electrochemical performances of layered cathode material Li1.5Ni0.25Mn0.75O2.5 by coating with LiAlO2. Journal of Alloys and Compounds, 2015, 638, 1-6.	2.8	35
46	Effect of cooling method on the electrochemical performance of layered-spinel composite cathode Li1.1Ni0.25Mn0.75O2.3. Journal of Alloys and Compounds, 2015, 646, 112-118.	2.8	15
47	Improvement of electrochemical performance of layered manganese enriched electrode material with the coating of Ni0.25Mn0.75Ox composite oxides. Journal of Alloys and Compounds, 2014, 605, 1-6.	2.8	7
48	Improvement electrochemical performance of Li1.5Ni0.25Mn0.75O2.5 with Li4Ti5O12 coating. Ionics, 2014, 20, 739-745.	1.2	19
49	Influence of Li content on the structure and electrochemical performance of Li1+xNi0.25Mn0.75O2.25+x/2 cathode for Li-ion battery. Journal of Power Sources, 2014, 248, 679-684.	4.0	33
50	Improvement of storage performance of LiMn2O4/graphite battery with AlF3-coated LiMn2O4. Ionics, 2013, 19, 1241-1246.	1.2	26
51	Storage performance with different charged state of manganese spinel battery. Ionics, 2012, 18, 643-648.	1.2	4
52	Improvement the electrochemical performance of Li1.2Ni0.2Mn0.6O2 electrode with AlF3 added. Journal of Shanghai Jiaotong University (Science), 2012, 17, 697-700.	0.5	0
53	Improving the electrochemical performance of LiMn2O4/graphite batteries using LiF additive during fabrication. Rare Metals, 2011, 30, 120-125.	3.6	7
54	Al2O3 coating for improving thermal stability performance of manganese spinel battery. Central South University, 2011, 18, 1844-1848.	0.5	6

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55	Overcharge performance of LiMn2O4/graphite battery with large capacity. Central South University, 2009, 16, 763-767.	0.5	8
56	Performance and capacity fading reason of LiMn2O4/graphite batteries after storing at high temperature. Rare Metals, 2009, 28, 322-327.	3.6	10
57	Effect of carbon nanotube on the electrochemical performance of C-LiFePO4/graphite battery. Journal of Power Sources, 2008, 184, 522-526.	4.0	106