

Yunjian Liu

List of Publications by Year in descending order

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31
papers

1,772
citations

331259

21
h-index

476904

29
g-index

31
all docs

31
docs citations

31
times ranked

1418
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A cation/anion co-doped Li _{1.12} Na _{0.08} Ni _{0.2} Mn _{0.6} O _{1.95} F _{0.05} cathode for lithium ion batteries. Nano Energy, 2019, 58, 786-796.	8.2	222
3	An integrated surface coating strategy to enhance the electrochemical performance of nickel-rich layered cathodes. Nano Energy, 2022, 91, 106665.	8.2	143
4	Enhanced Electrochemical Performance of Ni-Rich Cathode Materials with Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ Coating. ACS Sustainable Chemistry and Engineering, 2020, 8, 5819-5830.	3.2	118
5	Enhanced Electrochemical Performance of Li-Rich Layered Cathode Materials by Combined Cr Doping and LiAlO ₂ Coating. ACS Sustainable Chemistry and Engineering, 2019, 7, 2225-2235.	3.2	116
6	Multi-layered carbon coated Si-based composite as anode for lithium-ion batteries. Powder Technology, 2018, 323, 294-300.	2.1	97
7	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
8	Electrochemical performance of Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ coated with a facilely synthesized Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ . Journal of Power Sources, 2018, 403, 27-37.	4.0	64
9	Improved Cycling Stability of Na-Doped Cathode Materials Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ via a Facile Synthesis. ACS Sustainable Chemistry and Engineering, 2018, 6, 13045-13055.	3.2	56
10	Electrochemistry and redox characterization of rock-salt-type lithium metal oxides Li _{1+z/3} Ni _{1/2-z/2} Ti _{1/2+z/6} O ₂ for Li-ion batteries. Journal of Alloys and Compounds, 2019, 773, 1-10.	2.8	54
11	Improving the Structure Stability of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ by Double Modification of Tantalum Surface Coating and Doping. ACS Applied Energy Materials, 2021, 4, 8641-8652.	2.5	52
12	Investigation the electrochemical performance of Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ cathode material with ZnAl ₂ O ₄ coating for lithium ion batteries. Journal of Alloys and Compounds, 2016, 685, 523-532.	2.8	50
13	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
14	Oxide-based cathode materials for rechargeable zinc ion batteries: Progresses and challenges. Journal of Energy Chemistry, 2021, 57, 516-542.	7.1	48
15	Influence of Nb Doping on Electrochemical Performance of Nanostructured Cation Disordered Li _{1+x/100} Ni _{1/2} Ti _{1/2} Nb _{x/100} O ₂ Composites Cathode for Li-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2020, 20, 452-459.	0.9	44
16	Revisiting recent and traditional strategies for surface protection of Zn metal anode. Journal of Power Sources, 2022, 525, 231122.	4.0	41
17	Silicon@graphene composite prepared by spray-drying method as anode for lithium ion batteries. Journal of Electroanalytical Chemistry, 2019, 844, 86-90.	1.9	32
18	Synthesis and Redox Mechanism of Cation-Disordered, Rock-Salt Cathode-Material Li _{1-x} Ni _x Ti _{1-x} Nb _x O ₂ Compounds for a Li-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 35777-35787.	4.0	31

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19	High-rate capability of columbite CuNb ₂ O ₆ anode materials for lithium-ion batteries. Materials Letters, 2021, 284, 128915.	1.3	30
20	Design and tailoring of carbon-Al ₂ O ₃ double coated nickel-based cation-disordered cathodes towards high-performance Li-ion batteries. Nano Energy, 2022, 96, 107071.	8.2	26
21	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
22	High-rate capability of carbon-coated micron-sized hexagonal TT-Nb ₂ O ₅ composites for lithium-ion battery. Ceramics International, 2021, 47, 15400-15407.	2.3	21
23	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
24	Enhanced structure and electrochemical stability of single crystal nickel-rich cathode material by La ₂ Li _{0.5} Co _{0.5} O ₄ surface coating. Ceramics International, 2022, 48, 17548-17555.	2.3	20
25	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
26	Synthesis and electrochemical performance of Li ₃ NbO ₄ -based cation-disordered rock-salt cathode materials for Li-ion batteries. Journal of Alloys and Compounds, 2019, 797, 961-969.	2.8	12
27	Comparison of fluorine sources on the electrochemical property of Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ cathode materials. Functional Materials Letters, 2020, 13, 2050027.	0.7	7
28	Facile synthesis of Si/NiSi ₂ /C composite derived from metal-organic frameworks for high-performance lithium-ion battery anode. Journal of Electroanalytical Chemistry, 2020, 873, 114398.	1.9	7
29	Sphere-like TiO ₂ /Si anode material with superior performance for lithium ion batteries. Ionics, 2020, 26, 5349-5355.	1.2	5
30	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
31	A facile fabrication of nanometer tetragonal rod-like SnO ₂ as anode for lithium ion batteries. Ionics, 2021, 27, 4731-4737.	1.2	0