

# 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	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
2	Revisiting recent and traditional strategies for surface protection of Zn metal anode. <i>Journal of Power Sources</i> , 2022, 525, 231122.	4.0	41
3	Enhanced structure and electrochemical stability of single crystal nickel-rich cathode material by La <sub>2</sub> Li <sub>0.5</sub> Co <sub>0.5</sub> O <sub>4</sub> surface coating. <i>Ceramics International</i> , 2022, 48, 17548-17555.	2.3	20
4	Design and tailoring of carbon-Al <sub>2</sub> O <sub>3</sub> double coated nickel-based cation-disordered cathodes towards high-performance Li-ion batteries. <i>Nano Energy</i> , 2022, 96, 107071.	8.2	26
5	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
6	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
7	High-rate capability of columbite CuNb <sub>2</sub> O <sub>6</sub> anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2021, 284, 128915.	1.3	30
8	High-rate capability of carbon-coated micron-sized hexagonal TT-Nb <sub>2</sub> O <sub>5</sub> composites for lithium-ion battery. <i>Ceramics International</i> , 2021, 47, 15400-15407.	2.3	21
9	Improving the Structure Stability of Li <sub>1-x</sub> Ni <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> by Double Modification of Tantalum Surface Coating and Doping. <i>ACS Applied Energy Materials</i> , 2021, 4, 8641-8652.	2.5	52
10	A facile fabrication of nanometer tetragonal rod-like SnO <sub>2</sub> as anode for lithium ion batteries. <i>Ionics</i> , 2021, 27, 4731-4737.	1.2	0
11	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
12	Influence of Nb Doping on Electrochemical Performance of Nanostructured Cation Disordered Li <sub>1-x</sub> Ni <sub>0.1</sub> Ti <sub>0.1</sub> Nb <sub>x</sub> O <sub>2</sub> Composites Cathode for Li-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 452-459.	0.9	44
13	Sphere-like TiO <sub>2</sub> /Si anode material with superior performance for lithium ion batteries. <i>Ionics</i> , 2020, 26, 5349-5355.	1.2	5
14	Synthesis and Mechanism of High Structural Stability of Nickel-Rich Cathode Materials by Adjusting Li-Excess. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40393-40403.	4.0	93
15	Comparison of fluorine sources on the electrochemical property of Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> cathode materials. <i>Functional Materials Letters</i> , 2020, 13, 2050027.	0.7	7
16	Facile synthesis of Si/NiSi <sub>2</sub> /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
17	Enhanced Electrochemical Performance of Ni-Rich Cathode Materials with Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5819-5830.	3.2	118
18	Synthesis and Redox Mechanism of Cation-Disordered, Rock-Salt Cathode-Material Li <sub>1-x</sub> Ni <sub>x</sub> Ti <sub>1-x</sub> Nb <sub>x</sub> O Compounds for a Li-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35777-35787.	4.0	31

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19	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. Nano Energy, 2019, 58, 786-796.	8.2	222
20	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
21	Synthesis and electrochemical performance of $\text{Li}_3\text{NbO}_4$ -based cation-disordered rock-salt cathode materials for Li-ion batteries. Journal of Alloys and Compounds, 2019, 797, 961-969.	2.8	12
22	Enhanced Electrochemical Performance of Li-Rich Layered Cathode Materials by Combined Cr Doping and $\text{LiAlO}_2$ Coating. ACS Sustainable Chemistry and Engineering, 2019, 7, 2225-2235.	3.2	116
23	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. Journal of Alloys and Compounds, 2019, 773, 1-10.	2.8	54
24	Multi-layered carbon coated Si-based composite as anode for lithium-ion batteries. Powder Technology, 2018, 323, 294-300.	2.1	97
25	Electrochemical performance of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ coated with a facilely synthesized $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ . Journal of Power Sources, 2018, 403, 27-37.	4.0	64
26	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
27	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. ACS Sustainable Chemistry and Engineering, 2018, 6, 13045-13055.	3.2	56
28	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. Ceramics International, 2017, 43, 8800-8808.	2.3	19
29	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
30	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 $\text{Li}_4\text{Ti}_5\text{O}_{12}$ . Advanced Powder Technology, 2016, 27, 1481-1487.	2.0	20
31	Investigation the electrochemical performance of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ cathode material with $\text{ZnAl}_2\text{O}_4$ coating for lithium ion batteries. Journal of Alloys and Compounds, 2016, 685, 523-532.	2.8	50