

Yun Lu

List of Publications by Year in descending order

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42
papers

2,698
citations

172457

29
h-index

265206

42
g-index

43
all docs

43
docs citations

43
times ranked

2657
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress accumulation in Ni-rich layered oxide cathodes: Origin, impact, and resolution. <i>Journal of Energy Chemistry</i> , 2022, 65, 236-253.	12.9	65
2	Enhanced Electrochemical Performance of Ni-Rich Cathode Materials with an In Situ-Formed $\text{LiBO}_2/\text{B}_2\text{O}_3$ Hybrid Coating Layer. <i>ACS Applied Energy Materials</i> , 2022, 5, 2231-2241.	5.1	19
3	The mechanism of side reaction induced capacity fading of Ni-rich cathode materials for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 58, 1-8.	12.9	73
4	Interfacial Degradation and Optimization of Li-Rich Cathode Materials. <i>Chinese Journal of Chemistry</i> , 2021, 39, 402-420.	4.9	11
5	Strategies of Removing Residual Lithium Compounds on the Surface of Ni-Rich Cathode Materials. <i>Chinese Journal of Chemistry</i> , 2021, 39, 189-198.	4.9	52
6	High-Temperature Storage Deterioration Mechanism of Cylindrical 21700-Type Batteries Using Ni-Rich Cathodes under Different SOCs. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6286-6297.	8.0	17
7	Roles of Fast-Ion Conductor LiTaO_3 Modifying Ni-Rich Cathode Material for Li-Ion Batteries. <i>ChemSusChem</i> , 2021, 14, 1955-1961.	6.8	26
8	A Universal Method for Enhancing the Structural Stability of Ni-Rich Cathodes Via the Synergistic Effect of Dual-Element Cosubstitution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24925-24936.	8.0	43
9	Sublimated Se-Induced Formation of Dual-Conductive Surface Layers for High-Performance Ni-Rich Layered Cathodes. <i>ChemElectroChem</i> , 2021, 8, 4207-4217.	3.4	7
10	Unrevealing the effects of low temperature on cycling life of 21700-type cylindrical Li-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 60, 104-110.	12.9	31
11	Improved Stability of Layered and Porous Nickel-Rich Cathode Materials by Relieving the Accumulation of Inner Stress. <i>ChemSusChem</i> , 2020, 13, 426-433.	6.8	31
12	Riveting Dislocation Motion: The Inspiring Role of Oxygen Vacancies in the Structural Stability of Ni-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37208-37217.	8.0	49
13	Clean the Ni-Rich Cathode Material Surface With Boric Acid to Improve Its Storage Performance. <i>Frontiers in Chemistry</i> , 2020, 8, 573.	3.6	18
14	Advances and Prospects of Surface Modification on Nickel-Rich Materials for Lithium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1817-1831.	4.9	24
15	Densely Packed 3D Corrugated Papery Electrodes as Polysulfide Reservoirs for Lithium-Sulfur Battery with Ultrahigh Volumetric Capacity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5648-5661.	6.7	15
16	UiO-66 type metal-organic framework as a multifunctional additive to enhance the interfacial stability of Ni-rich layered cathode material. <i>Journal of Energy Chemistry</i> , 2020, 50, 378-386.	12.9	19
17	The effects of alkali metal ions with different ionic radii substituting in Li sites on the electrochemical properties of Ni-Rich cathode materials. <i>Journal of Power Sources</i> , 2019, 441, 227195.	7.8	71
18	High-Rate Structure-Gradient Ni-Rich Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36697-36704.	8.0	77

#	ARTICLE	IF	CITATIONS
19	Improving the Structure Stability of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ by Surface Perovskite-like $\text{La}_2\text{Ni}_{0.5}\text{Li}_{0.5}\text{O}_4$ Self-Assembling and Subsurface La_{3+} Doping. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36751-36762.	8.0	59
20	CF@rGO/PPy-S Hybrid Foam with Paper Window-like Microstructure as Freestanding and Flexible Cathode for the Lithium-Sulfur Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 4151-4158.	5.1	20
21	Hand-in-Hand Reinforced rGO Film Used as an Auxiliary Functional Layer for High-Performance Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12544-12553.	8.0	36
22	Synthesizing $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ with novel shell-pore structure for enhanced rate performance. <i>Journal of Alloys and Compounds</i> , 2019, 789, 736-743.	5.5	13
23	The Effects of Trace Yb Doping on the Electrochemical Performance of Ni-Rich Layered Oxides. <i>ChemSusChem</i> , 2019, 12, 2294-2301.	6.8	35
24	Improving the reversibility of the H2-H3 phase transitions for layered Ni-rich oxide cathode towards retarded structural transition and enhanced cycle stability. <i>Nano Energy</i> , 2019, 59, 50-57.	16.0	334
25	Use of Ce to Reinforce the Interface of Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Materials for Lithium-Ion Batteries under High Operating Voltage. <i>ChemSusChem</i> , 2019, 12, 935-943.	6.8	113
26	Sufficient Utilization of Zirconium Ions to Improve the Structure and Surface properties of Nickel-Rich Cathode Materials for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 1639-1648.	6.8	117
27	Exposing the {010} Planes by Oriented Self-Assembly with Nanosheets To Improve the Electrochemical Performances of Ni-Rich $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6407-6414.	8.0	98
28	Ethoxy (pentafluoro) cyclotriphosphazene (PFPN) as a multi-functional flame retardant electrolyte additive for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 378, 707-716.	7.8	77
29	Role of LaNiO_3 in suppressing voltage decay of layered lithium-rich cathode materials. <i>Electrochimica Acta</i> , 2018, 260, 986-993.	5.2	44
30	Electron bridging structure glued yolk-shell hierarchical porous carbon/sulfur composite for high performance Li-S batteries. <i>Electrochimica Acta</i> , 2018, 292, 199-207.	5.2	27
31	Improving the cycling stability of Ni-rich cathode materials by fabricating surface rock salt phase. <i>Electrochimica Acta</i> , 2018, 292, 217-226.	5.2	90
32	Pre-oxidizing the precursors of Nickel-rich cathode materials to regulate their $\text{Li}^+/\text{Ni}^{2+}$ cation ordering towards cyclability improvements. <i>Journal of Power Sources</i> , 2018, 396, 734-741.	7.8	82
33	Metal-organic frameworks composites threaded on the CNT knitted separator for suppressing the shuttle effect of lithium sulfur batteries. <i>Energy Storage Materials</i> , 2018, 14, 383-391.	18.0	135
34	Enhanced Electrochemical Performance of Layered Lithium-Rich Cathode Materials by Constructing Spinel-Structure Skin and Ferric Oxide Islands. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8669-8678.	8.0	50
35	Synergistic Effects of Stabilizing the Surface Structure and Lowering the Interface Resistance in Improving the Low-Temperature Performances of Layered Lithium-Rich Materials. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8641-8648.	8.0	38
36	Polyacrylonitrile-polyvinylidene fluoride as high-performance composite binder for layered Li-rich oxides. <i>Journal of Power Sources</i> , 2017, 359, 226-233.	7.8	32

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37	An interfacial framework for breaking through the Li-ion transport barrier of Li-rich layered cathode materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24292-24298.	10.3	64
38	Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Oxide Coated by Dual-Conductive Layers as High Performance Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29732-29743.	8.0	309
39	Renovation of LiCoO_2 with outstanding cycling stability by thermal treatment with Li_2CO_3 from spent Li-ion batteries. <i>Journal of Energy Storage</i> , 2016, 8, 262-273.	8.1	86
40	Synthesis and physicochemical properties of graphene/ ZrO_2 composite aerogels. <i>RSC Advances</i> , 2015, 5, 11738-11744.	3.6	17
41	Dendrimer-linked, renewable and magnetic carbon nanotube aerogels. <i>Materials Horizons</i> , 2014, 1, 232-236.	12.2	35
42	Elastic, Conductive, Polymeric Hydrogels and Sponges. <i>Scientific Reports</i> , 2014, 4, 5792.	3.3	139