

Linqin Mu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48 papers	2,809 citations	26 h-index	51 g-index
51 ext. papers	3,457 ext. citations	13.7 avg, IF	5.22 L-index

#	Paper	IF	Citations
48	Docking MOF crystals on graphene support for highly selective electrocatalytic peroxide production. <i>Nano Research</i> , 2021 , 1-8	10	2
47	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 1324-1332	20.1	13
46	X-ray Nanoimaging of Crystal Defects in Single Grains of Solid-State Electrolyte LiAlLaZrO. <i>Nano Letters</i> , 2021 , 21, 4570-4576	11.5	5
45	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. <i>Matter</i> , 2021 , 4, 2013-2026	12.7	20
44	A Self-Sodiophilic Carbon Host Promotes the Cyclability of Sodium Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2007556	15.6	6
43	Probing Dopant Redistribution, Phase Propagation, and Local Chemical Changes in the Synthesis of Layered Oxide Battery Cathodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2002719	21.8	15
42	Room Temperature to 150 °C Lithium Metal Batteries Enabled by a Rigid Molecular Ionic Composite Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2003559	21.8	13
41	Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery Electrodes for Operation in a Wide Temperature Range. <i>Advanced Energy Materials</i> , 2021 , 11, 2102122	21.8	10
40	Enhancing surface oxygen retention through theory-guided doping selection in Li _{1-x} NiO ₂ for next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23293-23303	13	20
39	Machine-learning-revealed statistics of the particle-carbon/binder detachment in lithium-ion battery cathodes. <i>Nature Communications</i> , 2020 , 11, 2310	17.4	75
38	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO Cathode in Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12874-12882	9.5	33
37	Defect and structural evolution under high-energy ion irradiation informs battery materials design for extreme environments. <i>Nature Communications</i> , 2020 , 11, 4548	17.4	9
36	The sensitive surface chemistry of Co-free, Ni-rich layered oxides: identifying experimental conditions that influence characterization results. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17487-17497	13	19
35	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37885-37891	9.5	19
34	Water-Processable P2-Na _{0.67} Ni _{0.22} Cu _{0.11} Mn _{0.56} Ti _{0.11} O ₂ Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A251-A257	3.9	17
33	Quantification of Heterogeneous Degradation in Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900674	21.8	111
32	Fully Oxidized NiBe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019 , 9, 6027-6032	13.1	112

31	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi _{0.045} Cu _{0.185} Fe _{0.265} Mn _{0.505} O ₂ Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11428-11435	3.8	10
30	Multifunctional Hybrid Nanomaterials for Energy Storage. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-2	3.2	1
29	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. <i>Chemistry of Materials</i> , 2019 , 31, 9769-9776	9.6	54
28	Superior electrochemical performance of sodium-ion full-cell using poplar wood derived hard carbon anode. <i>Energy Storage Materials</i> , 2019 , 18, 269-279	19.4	56
27	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , 2018 , 18, 3241-3249	11.5	163
26	Surface transformation by a cocktail solvent enables stable cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2758-2766	13	17
25	Anthraquinone derivative as high-performance anode material for sodium-ion batteries using ether-based electrolytes. <i>Green Energy and Environment</i> , 2018 , 3, 63-70	5.7	11
24	Understanding the critical chemistry to inhibit lithium consumption in lean lithium metal composite anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16003-16011	13	12
23	Propagation topography of redox phase transformations in heterogeneous layered oxide cathode materials. <i>Nature Communications</i> , 2018 , 9, 2810	17.4	45
22	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23842-23850	9.5	38
21	Deciphering the Cathode-Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1801975	21.8	64
20	Chemomechanical behaviors of layered cathode materials in alkali metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21859-21884	13	92
19	Thermally driven mesoscale chemomechanical interplay in Li _{0.5} Ni _{0.6} Mn _{0.2} Co _{0.2} O ₂ cathode materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23055-23061	13	32
18	Chemomechanical interplay of layered cathode materials undergoing fast charging in lithium batteries. <i>Nano Energy</i> , 2018 , 53, 753-762	17.1	105
17	High-performance N-methyl-N-propylpiperidinium bis(trifluoromethanesulfonyl)imide/poly(vinylidene fluoride-hexafluoropropylene) gel polymer electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , 2018 , 403, 127-136	8.9	34
16	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. <i>Energy and Environmental Science</i> , 2018 , 11, 2496-2508	35.4	34
15	Sodium-Deficient O ₃ -Na _{0.9} [Ni _{0.4} Mn _x Ti _{0.6-x}]O ₂ Layered-Oxide Cathode Materials for Sodium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 538-544	3.1	39
14	Pitch-derived amorphous carbon as high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , 2016 , 2, 139-145	19.4	203

13	pH-regulative synthesis of $\text{Na}_3(\text{VPO}_4)_2\text{F}_3$ nanoflowers and their improved Na cycling stability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7178-7184	13	60
12	Novel 1.5 V anode materials, ATiOPO_4 (A = NH_4 , K, Na), for room-temperature sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7141-7147	13	26
11	A phase-transfer assisted solvo-thermal strategy for low-temperature synthesis of $\text{Na}_3(\text{VO}_{1-x}\text{PO}_4)_2\text{F}_{1+2x}$ cathodes for sodium-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 7160-3	5.8	51
10	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330	14.3	138
9	Air-Stable Copper-Based $\text{P}_2\text{-NaCuFeMnO}$ as a New Positive Electrode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , 2015 , 2, 1500031	13.6	218
8	Superior Na-Storage Performance of Low-Temperature-Synthesized $\text{Na}_3(\text{VO}_{1-x}\text{PO}_4)_2\text{F}_{1+2x}$ ($0 \leq x \leq 1$) Nanoparticles for Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9911-6	16.4	149
7	Superior Na-Storage Performance of Low-Temperature-Synthesized $\text{Na}_3(\text{VO}_{1-x}\text{PO}_4)_2\text{F}_{1+2x}$ ($0 \leq x \leq 1$) Nanoparticles for Na-Ion Batteries. <i>Angewandte Chemie</i> , 2015 , 127, 10049-10054	3.6	28
6	Alkali-Ion Storage Behaviour in Spinel Lithium Titanate Electrodes. <i>ChemElectroChem</i> , 2015 , 2, 1678-1681	4.3	3
5	Prototype Sodium-Ion Batteries Using an Air-Stable and Co/Ni-Free O_3 -Layered Metal Oxide Cathode. <i>Advanced Materials</i> , 2015 , 27, 6928-33	24	398
4	A Novel High Capacity Positive Electrode Material with Tunnel-Type Structure for Aqueous Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1501005	21.8	127
3	Fe-Based Tunnel-Type $\text{Na}_{0.61}[\text{Mn}_{0.27}\text{Fe}_{0.34}\text{Ti}_{0.39}]\text{O}_2$ Designed by a New Strategy as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1501156	21.8	100
2	Investigating Particle Size-Dependent Redox Kinetics and Charge Distribution in Disordered Rocksalt Cathodes. <i>Advanced Functional Materials</i> , 2110502	15.6	0
1	Tailoring Disordered/Ordered Phases to Revisit the Degradation Mechanism of High-Voltage $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Spinel Cathode Materials. <i>Advanced Functional Materials</i> , 2112279	15.6	2