

Yuzhang Li

List of Publications by Citations

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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.

52
papers

10,443
citations

42
h-index

57
g-index

57
ext. papers

12,670
ext. citations

24.3
avg, IF

6.52
L-index

#	Paper	IF	Citations
52	A phosphorene-graphene hybrid material as a high-capacity anode for sodium-ion batteries. <i>Nature Nanotechnology</i> , 2015 , 10, 980-5	28.7	1114
51	Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. <i>Nature Energy</i> , 2016 , 1,	62.3	1065
50	Atomic structure of sensitive battery materials and interfaces revealed by cryo-electron microscopy. <i>Science</i> , 2017 , 358, 506-510	33.3	714
49	Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. <i>Nano Letters</i> , 2017 , 17, 1132-1139	11.5	699
48	Ionic conductivity enhancement of polymer electrolytes with ceramic nanowire fillers. <i>Nano Letters</i> , 2015 , 15, 2740-5	11.5	589
47	Growth of conformal graphene cages on micrometre-sized silicon particles as stable battery anodes. <i>Nature Energy</i> , 2016 , 1,	62.3	509
46	Nonfilling carbon coating of porous silicon micrometer-sized particles for high-performance lithium battery anodes. <i>ACS Nano</i> , 2015 , 9, 2540-7	16.7	372
45	Entrapment of Polysulfides by a Black-Phosphorus-Modified Separator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 9797-9803	24	371
44	Direct and continuous strain control of catalysts with tunable battery electrode materials. <i>Science</i> , 2016 , 354, 1031-1036	33.3	369
43	In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. <i>ACS Central Science</i> , 2015 , 1, 244-51	16.8	314
42	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017 , 12, 993-999	28.7	290
41	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11550-11558	16.4	270
40	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017 , 1, 794-805	27.8	263
39	Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable lithium metal anode. <i>Nature Communications</i> , 2018 , 9, 3656	17.4	234
38	Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. <i>Nature Energy</i> , 2019 , 4, 664-670	62.3	200
37	Fast and reversible thermoresponsive polymer switching materials for safer batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	190
36	Correlating Structure and Function of Battery Interphases at Atomic Resolution Using Cryoelectron Microscopy. <i>Joule</i> , 2018 , 2, 2167-2177	27.8	177

35	A manganese-hydrogen battery with potential for grid-scale energy storage. <i>Nature Energy</i> , 2018 , 3, 428-435	62.3	174
34	High-capacity battery cathode prelithiation to offset initial lithium loss. <i>Nature Energy</i> , 2016 , 1,	62.3	169
33	Ultrahigh-current density anodes with interconnected Li metal reservoir through overlithiation of mesoporous AlF framework. <i>Science Advances</i> , 2017 , 3, e1701301	14.3	158
32	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. <i>Nano Letters</i> , 2016 , 16, 7588-7596	11.5	152
31	Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 1326-1335	11.5	136
30	Robust Pinhole-free LiN Solid Electrolyte Grown from Molten Lithium. <i>ACS Central Science</i> , 2018 , 4, 97-104	10.8	130
29	Engineering stable interfaces for three-dimensional lithium metal anodes. <i>Science Advances</i> , 2018 , 4, eaat5168	14.3	116
28	Identifying the Active Surfaces of Electrochemically Tuned LiCoO for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6270-6276	16.4	115
27	Resolving Nanoscopic and Mesoscopic Heterogeneity of Fluorinated Species in Battery Solid-Electrolyte Interphases by Cryogenic Electron Microscopy. <i>ACS Energy Letters</i> , 2020 , 5, 1128-1135	20.1	112
26	Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. <i>Joule</i> , 2019 , 3, 1080-1093	27.8	102
25	Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. <i>Nature Chemistry</i> , 2019 , 11, 382-389	39.6	100
24	Lithium Metal Anode Materials Design: Interphase and Host. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 509-517	29.3	94
23	Synergistic enhancement of electrocatalytic CO reduction to C oxygenates at nitrogen-doped nanodiamonds/Cu interface. <i>Nature Nanotechnology</i> , 2020 , 15, 131-137	28.7	92
22	Stabilized Li ₃ N for efficient battery cathode prelithiation. <i>Energy Storage Materials</i> , 2017 , 6, 119-124	19.4	82
21	Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2018 , 18, 7060-7065	11.5	78
20	Evolution of the Solid-Electrolyte Interphase on Carbonaceous Anodes Visualized by Atomic-Resolution Cryogenic Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 5140-5148	11.5	72
19	Unravelling Atomic Structure and Degradation Mechanisms of Organic-Inorganic Halide Perovskites by Cryo-EM. <i>Joule</i> , 2019 , 3, 2854-2866	27.8	69
18	Tortuosity Effects in Lithium-Metal Host Anodes. <i>Joule</i> , 2020 , 4, 938-952	27.8	69

17	Dynamic Structure and Chemistry of the Silicon Solid-Electrolyte Interphase Visualized by Cryogenic Electron Microscopy. <i>Matter</i> , 2019 , 1, 1232-1245	12.7	65
16	Revealing Nanoscale Passivation and Corrosion Mechanisms of Reactive Battery Materials in Gas Environments. <i>Nano Letters</i> , 2017 , 17, 5171-5178	11.5	62
15	Cryo-EM structures of atomic surfaces and host-guest chemistry in metal-organic frameworks. <i>Matter</i> , 2019 , 1, 428-438	12.7	59
14	Cathode-Electrolyte Interphase in Lithium Batteries Revealed by Cryogenic Electron Microscopy. <i>Matter</i> , 2021 , 4, 302-312	12.7	57
13	Nanostructural and Electrochemical Evolution of the Solid-Electrolyte Interphase on CuO Nanowires Revealed by Cryogenic-Electron Microscopy and Impedance Spectroscopy. <i>ACS Nano</i> , 2019 , 13, 737-744	16.7	53
12	Corrosion of lithium metal anodes during calendar ageing and its microscopic origins. <i>Nature Energy</i> , 2021 , 6, 487-494	62.3	49
11	Capturing the swelling of solid-electrolyte interphase in lithium metal batteries.. <i>Science</i> , 2022 , 375, 66-70	39.3	40
10	Opportunities for Cryogenic Electron Microscopy in Materials Science and Nanoscience. <i>ACS Nano</i> , 2020 , 14, 9263-9276	16.7	26
9	Perspectives in in situ transmission electron microscopy studies on lithium battery electrodes. <i>Current Opinion in Chemical Engineering</i> , 2016 , 12, 37-43	5.4	19
8	Catalyst: How Cryo-EM Shapes the Development of Next-Generation Batteries. <i>CheM</i> , 2018 , 4, 2250-2252	26.2	14
7	In situ formation of ionically conductive nanointerphase on Si particles for stable battery anode. <i>Science China Chemistry</i> , 2021 , 64, 1417-1425	7.9	11
6	Spheres of Graphene and Carbon Nanotubes Embedding Silicon as Mechanically Resilient Anodes for Lithium-Ion Batteries.. <i>Nano Letters</i> , 2022 ,	11.5	5
5	Designing a Nanoscale Three-phase Electrochemical Pathway to Promote Pt-catalyzed Formaldehyde Oxidation. <i>Nano Letters</i> , 2020 , 20, 8719-8724	11.5	4
4	Atomically Thin Bilayer Janus Membranes for Cryo-electron Microscopy. <i>ACS Nano</i> , 2021 , 15, 16562-16571	16.7	2
3	Cryogenic-electron Microscopy for Battery Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1824-1825	0.5	
2	Resolving Nanoscale Heterogeneity in Battery Interphases with Cryo-EM. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2786-2788	0.5	
1	Resolve cathode electrolyte interphase in lithium batteries with cryo-EM. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2188-2190	0.5	