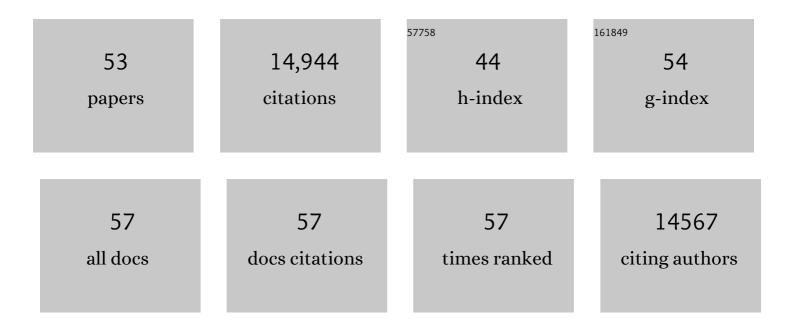
Yuzhang Li

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. Nature Energy, 2016, 1, . | 39.5 | 1,516 |
| 2 | A phosphorene–graphene hybrid material as a high-capacity anode for sodium-ion batteries. Nature Nanotechnology, 2015, 10, 980-985. | 31.5 | 1,287 |
| 3 | Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. Nano Letters, 2017, 17, 1132-1139. | 9.1 | 1,081 |
| 4 | Atomic structure of sensitive battery materials and interfaces revealed by cryo–electron microscopy. Science, 2017, 358, 506-510. | 12.6 | 1,039 |
| 5 | Ionic Conductivity Enhancement of Polymer Electrolytes with Ceramic Nanowire Fillers. Nano Letters, 2015, 15, 2740-2745. | 9.1 | 782 |
| 6 | Growth of conformal graphene cages on micrometre-sized silicon particles as stable battery anodes. Nature Energy, 2016, 1, . | 39.5 | 609 |
| 7 | Direct and continuous strain control of catalysts with tunable battery electrode materials. Science, 2016, 354, 1031-1036. | 12.6 | 512 |
| 8 | Entrapment of Polysulfides by a Blackâ€Phosphorusâ€Modified Separator for Lithium–Sulfur Batteries. Advanced Materials, 2016, 28, 9797-9803. | 21.0 | 453 |
| 9 | Nonfilling Carbon Coating of Porous Silicon Micrometer-Sized Particles for High-Performance Lithium Battery Anodes. ACS Nano, 2015, 9, 2540-2547. | 14.6 | 433 |
| 10 | Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. Journal of the American Chemical Society, 2017, 139, 11550-11558. | 13.7 | 398 |
| 11 | Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO2 to Formate. Joule, 2017, 1, 794-805. | 24.0 | 390 |
| 12 | Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. Nature Nanotechnology, 2017, 12, 993-999. | 31.5 | 376 |
| 13 | In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. ACS Central Science, 2015, 1, 244-251. | 11.3 | 373 |
| 14 | Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable lithium metal anode. Nature Communications, 2018, 9, 3656. | 12.8 | 371 |
| 15 | Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. Nature Energy, 2019, 4, 664-670. | 39.5 | 336 |
| 16 | A manganese–hydrogen battery with potential for grid-scale energy storage. Nature Energy, 2018, 3, 428-435. | 39.5 | 325 |
| 17 | Correlating Structure and Function of Battery Interphases at Atomic Resolution Using Cryoelectron Microscopy. Joule, 2018, 2, 2167-2177. | 24.0 | 284 |
| 18 | High-capacity battery cathode prelithiation to offset initial lithium loss. Nature Energy, 2016, 1, . | 39.5 | 265 |

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| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Fast and reversible thermoresponsive polymer switching materials for safer batteries. Nature Energy, 2016, 1, . | 39.5 | 253 |
| 20 | Ultrahigh–current density anodes with interconnected Li metal reservoir through overlithiation of mesoporous AlF ₃ framework. Science Advances, 2017, 3, e1701301. | 10.3 | 199 |
| 21 | Resolving Nanoscopic and Mesoscopic Heterogeneity of Fluorinated Species in Battery Solid-Electrolyte Interphases by Cryogenic Electron Microscopy. ACS Energy Letters, 2020, 5, 1128-1135. | 17.4 | 199 |
| 22 | Robust Pinhole-free Li ₃ N Solid Electrolyte Grown from Molten Lithium. ACS Central Science, 2018, 4, 97-104. | 11.3 | 197 |
| 23 | Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron Microscopy. Nano Letters, 2019, 19, 1326-1335. | 9.1 | 193 |
| 24 | In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. Nano Letters, 2016, 16, 7588-7596. | 9.1 | 186 |
| 25 | Capturing the swelling of solid-electrolyte interphase in lithium metal batteries. Science, 2022, 375, 66-70. | 12.6 | 183 |
| 26 | Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. Nature Chemistry, 2019, 11, 382-389. | 13.6 | 180 |
| 27 | Synergistic enhancement of electrocatalytic CO2 reduction to C2 oxygenates at nitrogen-doped nanodiamonds/Cu interface. Nature Nanotechnology, 2020, 15, 131-137. | 31.5 | 169 |
| 28 | Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. Joule, 2019, 3, 1080-1093. | 24.0 | 168 |
| 29 | Lithium Metal Anode Materials Design: Interphase and Host. Electrochemical Energy Reviews, 2019, 2, 509-517. | 25.5 | 156 |
| 30 | Engineering stable interfaces for three-dimensional lithium metal anodes. Science Advances, 2018, 4, eaat5168. | 10.3 | 153 |
| 31 | Tortuosity Effects in Lithium-Metal Host Anodes. Joule, 2020, 4, 938-952. | 24.0 | 150 |
| 32 | Identifying the Active Surfaces of Electrochemically Tuned LiCoO ₂ for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 6270-6276. | 13.7 | 143 |
| 33 | Stabilized Li3N for efficient battery cathode prelithiation. Energy Storage Materials, 2017, 6, 119-124. | 18.0 | 143 |
| 34 | Evolution of the Solid–Electrolyte Interphase on Carbonaceous Anodes Visualized by Atomic-Resolution Cryogenic Electron Microscopy. Nano Letters, 2019, 19, 5140-5148. | 9.1 | 132 |
| 35 | Cathode-Electrolyte Interphase in Lithium Batteries Revealed by Cryogenic Electron Microscopy. Matter, 2021, 4, 302-312. | 10.0 | 127 |
| 36 | Corrosion of lithium metal anodes during calendar ageing and its microscopic origins. Nature Energy, 2021, 6, 487-494. | 39.5 | 124 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. Nano Letters, 2018, 18, 7060-7065. | 9.1 | 121 |
| 38 | Dynamic Structure and Chemistry of the Silicon Solid-Electrolyte Interphase Visualized by Cryogenic Electron Microscopy. Matter, 2019, 1, 1232-1245. | 10.0 | 107 |
| 39 | Cryo-EM Structures of Atomic Surfaces and Host-Guest Chemistry in Metal-Organic Frameworks. Matter, 2019, 1, 428-438. | 10.0 | 102 |
| 40 | Unravelling Degradation Mechanisms and Atomic Structure of Organic-Inorganic Halide Perovskites by Cryo-EM. Joule, 2019, 3, 2854-2866. | 24.0 | 99 |
| 41 | Revealing Nanoscale Passivation and Corrosion Mechanisms of Reactive Battery Materials in Gas Environments. Nano Letters, 2017, 17, 5171-5178. | 9.1 | 88 |
| 42 | Nanostructural and Electrochemical Evolution of the Solid-Electrolyte Interphase on CuO Nanowires Revealed by Cryogenic-Electron Microscopy and Impedance Spectroscopy. ACS Nano, 2019, 13, 737-744. | 14.6 | 78 |
| 43 | Opportunities for Cryogenic Electron Microscopy in Materials Science and Nanoscience. ACS Nano, 2020, 14, 9263-9276. | 14.6 | 55 |
| 44 | Spheres of Graphene and Carbon Nanotubes Embedding Silicon as Mechanically Resilient Anodes for Lithium-Ion Batteries. Nano Letters, 2022, 22, 3054-3061. | 9.1 | 42 |
| 45 | In situ formation of ionically conductive nanointerphase on Si particles for stable battery anode. Science China Chemistry, 2021, 64, 1417-1425. | 8.2 | 28 |
| 46 | Perspectives in in situ transmission electron microscopy studies on lithium battery electrodes. Current Opinion in Chemical Engineering, 2016, 12, 37-43. | 7.8 | 26 |
| 47 | Catalyst: How Cryo-EM Shapes the Development of Next-Generation Batteries. CheM, 2018, 4, 2250-2252. | 11.7 | 24 |
| 48 | Designing a Nanoscale Three-phase Electrochemical Pathway to Promote Pt-catalyzed Formaldehyde Oxidation. Nano Letters, 2020, 20, 8719-8724. | 9.1 | 15 |
| 49 | Atomically Thin Bilayer Janus Membranes for Cryo-electron Microscopy. ACS Nano, 2021, 15, 16562-16571. | 14.6 | 5 |
| 50 | Looking cool. Nature Energy, 2018, 3, 1023-1024. | 39.5 | 4 |
| 51 | Cryogenic-electron Microscopy for Battery Materials. Microscopy and Microanalysis, 2020, 26, 1824-1825. | 0.4 | 0 |
| 52 | Resolving Nanoscale Heterogeneity in Battery Interphases with Cryo-EM. Microscopy and Microanalysis, 2020, 26, 2786-2788. | 0.4 | 0 |
| 53 | Resolve cathode electrolyte interphase in lithium batteries with cryo-EM. Microscopy and Microanalysis, 2021, 27, 2188-2190. | 0.4 | 0 |