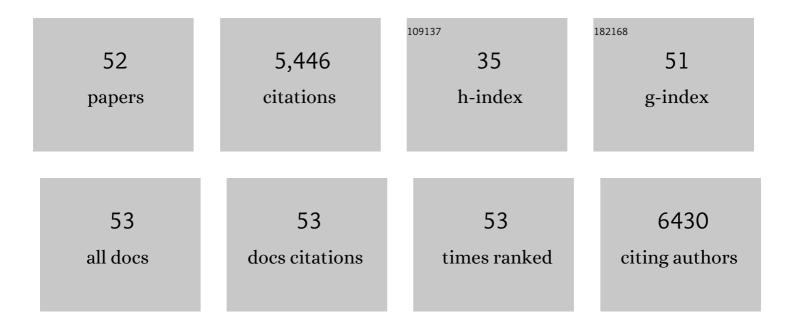
## Ming Liu

List of Publications by Year in descending order

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Minclu

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery<br>Research. Advanced Materials, 2019, 31, e1806620.   | 11.1 | 390       |
| 2  | Novel gel polymer electrolyte for high-performance lithium–sulfur batteries. Nano Energy, 2016, 22,<br>278-289.   | 8.2  | 382       |
| 3  | SiO <sub>2</sub> Hollow Nanosphereâ€Based Composite Solid Electrolyte for Lithium Metal Batteries to<br>Suppress Lithium Dendrite Growth and Enhance Cycle Life. Advanced Energy Materials, 2016, 6, 1502214. | 10.2 | 346       |
| 4  | In Situ Synthesis of a Hierarchical Allâ€Solidâ€State Electrolyte Based on Nitrile Materials for<br>Highâ€Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500353.                    | 10.2 | 300       |
| 5  | Gassing in Li4Ti5O12-based batteries and its remedy. Scientific Reports, 2012, 2, 913.  | 1.6  | 284       |
| 6  | Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. Nature<br>Communications, 2020, 11, 4188.  | 5.8  | 226       |
| 7  | Effect of solid electrolyte interface (SEI) film on cyclic performance of Li4Ti5O12 anodes for Li ion batteries. Journal of Power Sources, 2013, 239, 269-276.  | 4.0  | 223       |
| 8  | Boron phosphide monolayer as a potential anode material for alkali metal-based batteries. Journal of<br>Materials Chemistry A, 2017, 5, 672-679.  | 5.2  | 217       |
| 9  | Revealing High Na-Content P2-Type Layered Oxides as Advanced Sodium-Ion Cathodes. Journal of the American Chemical Society, 2020, 142, 5742-5750.   | 6.6  | 206       |
| 10 | Ultrafine TiO <sub>2</sub> Decorated Carbon Nanofibers as Multifunctional Interlayer for<br>High-Performance Lithium–Sulfur Battery. ACS Applied Materials & Interfaces, 2016, 8, 23105-23113.                | 4.0  | 200       |
| 11 | Suppressing Selfâ€Discharge and Shuttle Effect of Lithium–Sulfur Batteries with<br>V <sub>2</sub> 0 <sub>5</sub> â€Decorated Carbon Nanofiber Interlayer. Small, 2017, 13, 1602539.                           | 5.2  | 190       |
| 12 | Dense coating of Li4Ti5O12 and graphene mixture on the separator to produce long cycle life of<br>lithium-sulfur battery. Nano Energy, 2016, 30, 1-8.   | 8.2  | 179       |
| 13 | A review of gassing behavior in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6368-6381.   | 5.2  | 157       |
| 14 | An interwoven MoO <sub>3</sub> @CNT scaffold interlayer for high-performance lithium–sulfur<br>batteries. Journal of Materials Chemistry A, 2018, 6, 8612-8619.   | 5.2  | 141       |
| 15 | A honeycomb-cobweb inspired hierarchical core–shell structure design for electrospun<br>silicon/carbon fibers as lithium-ion battery anodes. Carbon, 2016, 98, 582-591.                                       | 5.4  | 128       |
| 16 | Borophene and defective borophene as potential anchoring materials for lithium–sulfur batteries: a<br>first-principles study. Journal of Materials Chemistry A, 2018, 6, 2107-2114.                           | 5.2  | 127       |
| 17 | Recent innovative configurations in high-energy lithium–sulfur batteries. Journal of Materials<br>Chemistry A, 2017, 5, 5222-5234.  | 5.2  | 115       |
| 18 | Ultrafine Titanium Nitride Sheath Decorated Carbon Nanofiber Network Enabling Stable Lithium Metal<br>Anodes. Advanced Functional Materials, 2019, 29, 1903229.   | 7.8  | 112       |

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|----|---|------|-----------|
| 19 | Revealing the Impact of Space-Charge Layers on the Li-Ion Transport in All-Solid-State Batteries. Joule, 2020, 4, 1311-1323.  | 11.7 | 111       |
| 20 | Electrosprayed porous Fe3O4/carbon microspheres as anode materials for high-performance lithium-ion batteries. Nano Research, 2018, 11, 892-904.  | 5.8  | 110       |
| 21 | Modeling of lithium-sulfur batteries incorporating the effect of Li2S precipitation. Journal of Power Sources, 2016, 336, 115-125.  | 4.0  | 87        |
| 22 | An efficient Li2S-based lithium-ion sulfur battery realized by a bifunctional electrolyte additive. Nano<br>Energy, 2017, 40, 240-247.  | 8.2  | 81        |
| 23 | Tandem Interface and Bulk Li-Ion Transport in a Hybrid Solid Electrolyte with Microsized Active Filler.<br>ACS Energy Letters, 2019, 4, 2336-2342.  | 8.8  | 80        |
| 24 | In-situ Fabrication of a Freestanding Acrylate-based Hierarchical Electrolyte for Lithium-sulfur<br>Batteries. Electrochimica Acta, 2016, 213, 871-878.   | 2.6  | 74        |
| 25 | Additives synergy for stable interface formation on rechargeable lithium metal anodes. Energy Storage Materials, 2020, 29, 377-385.   | 9.5  | 66        |
| 26 | Efficient Li-Metal Plating/Stripping in Carbonate Electrolytes Using a LiNO <sub>3</sub> -Gel Polymer<br>Electrolyte, Monitored by Operando Neutron Depth Profiling. Chemistry of Materials, 2019, 31,<br>4564-4574.  | 3.2  | 65        |
| 27 | Cyclized-polyacrylonitrile modified carbon nanofiber interlayers enabling strong trapping of<br>polysulfides in lithium–sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 12973-12980.   | 5.2  | 64        |
| 28 | A highly-safe lithium-ion sulfur polymer battery with SnO2 anode and acrylate-based gel polymer electrolyte. Nano Energy, 2016, 28, 97-105.   | 8.2  | 60        |
| 29 | Monodispersed SnO 2 nanospheres embedded in framework of graphene and porous carbon as anode for lithium ion batteries. Energy Storage Materials, 2016, 3, 98-105.  | 9.5  | 60        |
| 30 | Unraveling the Positive Roles of Point Defects on Carbon Surfaces in Nonaqueous Lithium–Oxygen<br>Batteries. Journal of Physical Chemistry C, 2016, 120, 18394-18402.   | 1.5  | 50        |
| 31 | Two-dimensional SiS as a potential anode material for lithium-based batteries: A first-principles study.<br>Journal of Power Sources, 2016, 331, 391-399.   | 4.0  | 46        |
| 32 | A self-cleaning Li-S battery enabled by a bifunctional redox mediator. Journal of Power Sources, 2017, 361, 203-210.  | 4.0  | 46        |
| 33 | High dielectric barium titanate porous scaffold for efficient Li metal cycling in anode-free cells.<br>Nature Communications, 2021, 12, 6536.   | 5.8  | 44        |
| 34 | Increase and discretization of the energy barrier for individual<br>LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>y</sub> O <sub>2</sub> ( <i>x</i> + 2 <i>y</i> =1) particles<br>with the growth of a Li <sub>2</sub> CO <sub>3</sub> surface film. Journal of Materials Chemistry A,<br>2019, 7, 12723-12731. | 5.2  | 43        |
| 35 | Controlling the Lithium-Metal Growth To Enable Low-Lithium-Metal-Excess All-Solid-State<br>Lithium-Metal Batteries. , 2020, 2, 665-670.   |      | 37        |
| 36 | Quantification of the Li-ion diffusion over an interface coating in all-solid-state batteries via NMR measurements. Nature Communications, 2021, 12, 5943.  | 5.8  | 36        |

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|----|---|-----|-----------|
| 37 | Restructured rimous copper foam as robust lithium host. Energy Storage Materials, 2020, 26, 250-259.  | 9.5 | 34        |
| 38 | In situ construction of Li3N-enriched interface enabling ultra-stable solid-state<br>LiNi0.8Co0.1Mn0.1O2/lithium metal batteries. Nano Energy, 2022, 100, 107470.   | 8.2 | 34        |
| 39 | A Novel Lithiated Silicon–Sulfur Battery Exploiting an Optimized Solid‣ike Electrolyte to Enhance<br>Safety and Cycle Life. Small, 2017, 13, 1602015.   | 5.2 | 33        |
| 40 | Facile Synthesis of Antâ€Nestâ€Like Porous Duplex Copper as Deeply Cycling Host for Lithium Metal<br>Anodes. Small, 2020, 16, e2001784.   | 5.2 | 33        |
| 41 | Liâ€ion Reaction to Improve the Rate Performance of Nanoporous Anatase TiO <sub>2</sub> Anodes.<br>Energy Technology, 2013, 1, 668-674.   | 1.8 | 30        |
| 42 | High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. Journal of Power Sources, 2014, 268, 882-886.   | 4.0 | 25        |
| 43 | A Direct View on Li-Ion Transport and Li-Metal Plating in Inorganic and Hybrid Solid-State Electrolytes.<br>Accounts of Chemical Research, 2022, 55, 333-344.   | 7.6 | 25        |
| 44 | Si Nanoparticles Intercalated into Interlayers of Slightly Exfoliated Graphite filled by Carbon as<br>Anode with High Volumetric Capacity for Lithium-ion Battery. Electrochimica Acta, 2015, 184, 364-370. | 2.6 | 24        |
| 45 | A Lithium/Polysulfide Battery with Dual-Working Mode Enabled by Liquid Fuel and Acrylate-Based Gel<br>Polymer Electrolyte. ACS Applied Materials & Interfaces, 2017, 9, 2526-2534.                          | 4.0 | 24        |
| 46 | High-performance nitrogen-doped titania nanowire decorated carbon cloth electrode for lithium-polysulfide batteries. Electrochimica Acta, 2017, 242, 137-145.   | 2.6 | 22        |
| 47 | Room temperature all-solid-state lithium batteries based on a soluble organic cage ionic conductor.<br>Nature Communications, 2022, 13, 2031.   | 5.8 | 19        |
| 48 | A stabilized high-energy Li-polyiodide semi-liquid battery with a dually-protected Li anode. Journal of<br>Power Sources, 2017, 347, 136-144.   | 4.0 | 17        |
| 49 | An aprotic lithium/polyiodide semi-liquid battery with an ionic shield. Journal of Power Sources, 2017, 342, 9-16.  | 4.0 | 15        |
| 50 | Design, Construction, and Testing of a Gasifier-Specific Solid Oxide Fuel Cell System. Energies, 2018, 11, 1985.  | 1.6 | 13        |
| 51 | Lithium titanate hybridized with trace amount of graphene used as an anode for a high rate lithium ion battery. Electrochimica Acta, 2014, 142, 247-253.  | 2.6 | 11        |
| 52 | A Li <sub>2</sub> Sâ€Based Sacrificial Layer for Stable Operation of Lithiumâ€6ulfur Batteries. Energy<br>Technology, 2018, 6, 2210-2219.   | 1.8 | 4         |