

# Zhaoping Liu

## List of Publications by Year in descending order

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214  
papers

10,986  
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31976

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h-index

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g-index

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docs citations

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times ranked

12472  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Towards High-Voltage Aqueous Metal-Ion Batteries Beyond 1.5 V: The Zinc/Zinc Hexacyanoferrate System. <i>Advanced Energy Materials</i> , 2015, 5, 1400930.   | 19.5 | 932       |
| 2  | Gas-solid interfacial modification of oxygen activity in layered oxide cathodes for lithium-ion batteries. <i>Nature Communications</i> , 2016, 7, 12108.  | 12.8 | 531       |
| 3  | Graphene modified LiFePO <sub>4</sub> cathode materials for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 3353.  | 6.7  | 469       |
| 4  | 3D Porous MXene (Ti <sub>3</sub> C <sub>2</sub> )/Reduced Graphene Oxide Hybrid Films for Advanced Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3634-3643.   | 8.0  | 288       |
| 5  | A Comprehensive Understanding of Lithium-Sulfur Battery Technology. <i>Advanced Functional Materials</i> , 2019, 29, 1901730.  | 14.9 | 267       |
| 6  | A scalable, solution-phase processing route to graphene oxide and graphene ultralarge sheets. <i>Chemical Communications</i> , 2010, 46, 2611.   | 4.1  | 240       |
| 7  | A Chronicle Review of Nonsilicon (Sn, Sb, Ge)-Based Lithium/Sodium-Ion Battery Alloying Anodes. <i>Small Methods</i> , 2020, 4, 2000218.   | 8.6  | 220       |
| 8  | Morphological Evolution of High-Voltage Spinel LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode Materials for Lithium-Ion Batteries: The Critical Effects of Surface Orientations and Particle Size. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4661-4675. | 8.0  | 212       |
| 9  | Morphology-Dependent Electrochemical Performance of Zinc Hexacyanoferrate Cathode for Zinc-Ion Battery. <i>Scientific Reports</i> , 2015, 5, 18263.  | 3.3  | 211       |
| 10 | Large-Sized Few-Layer Graphene Enables an Ultrafast and Long-Life Aluminum-Ion Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1700034.   | 19.5 | 197       |
| 11 | A 3D porous architecture of Si/graphene nanocomposite as high-performance anode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 7724.  | 6.7  | 193       |
| 12 | Morphology-controlled solvothermal synthesis of LiFePO <sub>4</sub> as a cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 8086.   | 6.7  | 170       |
| 13 | Transition metal oxide-based oxygen reduction reaction electrocatalysts for energy conversion systems with aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10595-10626.   | 10.3 | 162       |
| 14 | Microscale Lithium Metal Stored inside Cellular Graphene Scaffold toward Advanced Metallic Lithium Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1703152.  | 19.5 | 144       |
| 15 | Abundant nanoscale defects to eliminate voltage decay in Li-rich cathode materials. <i>Energy Storage Materials</i> , 2019, 16, 220-227.   | 18.0 | 144       |
| 16 | Mechanical and Thermal Properties of Epoxy Resin Nanocomposites Reinforced with Graphene Oxide. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 251-256.  | 1.9  | 143       |
| 17 | Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15206-15226.   | 13.8 | 138       |
| 18 | Sulfur/Carbon Nanotube Composite Film as a Flexible Cathode for Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21112-21119.   | 3.1  | 135       |

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|----|---|------|-----------|
| 19 | Enhancing the pyridinic N content of Nitrogen-doped graphene and improving its catalytic activity for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28298-28308.   | 7.1  | 132       |
| 20 | A novel fluorocyclophosphazene as bifunctional additive for safer lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 278, 190-196.  | 7.8  | 117       |
| 21 | Two-dimensional silicon suboxides nanostructures with Si nanodomains confined in amorphous SiO <sub>2</sub> derived from siloxene as high performance anode for Li-ion batteries. <i>Nano Energy</i> , 2017, 39, 546-553.   | 16.0 | 113       |
| 22 | Self-Templating Construction of 3D Hierarchical Macro-/Mesoporous Silicon from 0D Silica Nanoparticles. <i>ACS Nano</i> , 2017, 11, 889-899.  | 14.6 | 100       |
| 23 | Enhanced Electrochemical Performance with Surface Coating by Reactive Magnetron Sputtering on Lithium-Rich Layered Oxide Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9185-9193.  | 8.0  | 98        |
| 24 | Understanding and Controlling Anionic Electrochemical Activity in High-Capacity Oxides for Next Generation Li-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 908-915.   | 6.7  | 97        |
| 25 | Electrochemical properties of 0.6Li[Li <sub>1/3</sub> Mn <sub>2/3</sub> ]O <sub>2</sub> •0.4LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>1-x-y</sub> O <sub>2</sub> cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 218, 128-133. | 7.8  | 93        |
| 26 | Improving the cyclability performance of lithium-ion batteries by introducing lithium difluorophosphate (LiPO <sub>2</sub> F <sub>2</sub> ) additive. <i>RSC Advances</i> , 2017, 7, 26052-26059.   | 3.6  | 93        |
| 27 | New-concept Batteries Based on Aqueous Li <sup>+</sup> /Na <sup>+</sup> Mixed-ion Electrolytes. <i>Scientific Reports</i> , 2013, 3, 1946.  | 3.3  | 91        |
| 28 | Morphology controlled synthesis and modification of high-performance LiMnPO <sub>4</sub> cathode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 21144.   | 6.7  | 90        |
| 29 | Water-mediated cation intercalation of open-framework indium hexacyanoferrate with high voltage and fast kinetics. <i>Nature Communications</i> , 2016, 7, 11982.   | 12.8 | 90        |
| 30 | (La <sub>1-x</sub> Sr <sub>x</sub> ) <sub>0.98</sub> MnO <sub>3</sub> perovskite with A-site deficiencies toward oxygen reduction reaction in aluminum-air batteries. <i>Journal of Power Sources</i> , 2017, 342, 192-201.   | 7.8  | 87        |
| 31 | Methylsulfonylmethane-Based Deep Eutectic Solvent as a New Type of Green Electrolyte for a High-Energy-Density Aqueous Lithium-Ion Battery. <i>ACS Energy Letters</i> , 2019, 4, 1419-1426.   | 17.4 | 87        |
| 32 | Polyimide matrix-enhanced cross-linked gel separator with three-dimensional heat-resistance skeleton for high-safety and high-power lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9134.   | 10.3 | 86        |
| 33 | Superior Thermally Stable and Nonflammable Porous Polybenzimidazole Membrane with High Wettability for High-Power Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8742-8750.  | 8.0  | 83        |
| 34 | Porous membrane with high curvature, three-dimensional heat-resistance skeleton: a new and practical separator candidate for high safety lithium ion battery. <i>Scientific Reports</i> , 2015, 5, 8255.  | 3.3  | 80        |
| 35 | Graphene nested porous carbon current collector for lithium metal anode with ultrahigh areal capacity. <i>Energy Storage Materials</i> , 2018, 15, 266-273.   | 18.0 | 77        |
| 36 | Silicon/carbon lithium-ion battery anode with 3D hierarchical macro-/mesoporous silicon network: Self-templating synthesis via magnesiothermic reduction of silica/carbon composite. <i>Journal of Power Sources</i> , 2019, 412, 93-104.                           | 7.8  | 77        |

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|----|---|------|-----------|
| 37 | Synthesis and electrochemical properties of layered lithium transition metal oxides. <i>Journal of Materials Chemistry</i> , 2011, 21, 2544-2549.   | 6.7  | 74        |
| 38 | Surface structural conversion and electrochemical enhancement by heat treatment of chemical pre-delithiation processed lithium-rich layered cathode material. <i>Journal of Power Sources</i> , 2014, 268, 683-691.   | 7.8  | 74        |
| 39 | Ion-selective copper hexacyanoferrate with an open-framework structure enables high-voltage aqueous mixed-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16740-16747.  | 10.3 | 74        |
| 40 | Freestanding bacterial cellulose-graphene oxide composite membranes with high mechanical strength for selective ion permeation. <i>Scientific Reports</i> , 2016, 6, 33185.   | 3.3  | 73        |
| 41 | Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. <i>Advanced Materials</i> , 2017, 29, 1604453.   | 21.0 | 72        |
| 42 | Performances of an Al <sup>0.15</sup> Bi <sup>0.15</sup> Pb <sup>0.035</sup> Ga alloy as an anode for Al <sup>0.15</sup> air batteries in neutral and alkaline electrolytes. <i>RSC Advances</i> , 2017, 7, 25838-25847.  | 3.6  | 71        |
| 43 | La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> perovskites as efficient bi-functional cathode catalysts for rechargeable zinc-air batteries. <i>Electrochimica Acta</i> , 2017, 254, 14-24.   | 5.2  | 71        |
| 44 | Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. <i>Nano-Micro Letters</i> , 2021, 13, 44.   | 27.0 | 71        |
| 45 | Si/Ag/C Nanohybrids with <i>in Situ</i> Incorporation of Super-Small Silver Nanoparticles: Tiny Amount, Huge Impact. <i>ACS Nano</i> , 2018, 12, 861-875.   | 14.6 | 67        |
| 46 | Aqueous Batteries Based on Mixed Monovalence Metal Ions: A New Battery Family. <i>ChemSusChem</i> , 2014, 7, 2295-2302.   | 6.8  | 61        |
| 47 | A comparative study on the oxidation state of lattice oxygen among Li <sub>1.14</sub> Ni <sub>0.136</sub> Co <sub>0.136</sub> Mn <sub>0.544</sub> O <sub>2</sub> , Li <sub>2</sub> MnO <sub>3</sub> , LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> and LiCoO <sub>2</sub> for the initial charge-discharge. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11930-11939. | 10.3 | 61        |
| 48 | Oxygen reduction reaction catalysts of manganese oxide decorated by silver nanoparticles for aluminum-air batteries. <i>Electrochimica Acta</i> , 2016, 214, 49-55.   | 5.2  | 61        |
| 49 | Distinguishing thermal lens effect from electronic third-order nonlinear self-phase modulation in liquid suspensions of 2D nanomaterials. <i>Nanoscale</i> , 2017, 9, 3547-3554.  | 5.6  | 60        |
| 50 | Enhanced Bifunctional Catalytic Activity of Manganese Oxide/Perovskite Hierarchical Core-Shell Materials by Adjusting the Interface for Metal <sup>2+</sup> Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25870-25881.   | 8.0  | 59        |
| 51 | Graphene wrapped silicon suboxides anodes with suppressed Li-uptake behavior enabled superior cycling stability. <i>Energy Storage Materials</i> , 2021, 35, 317-326.   | 18.0 | 58        |
| 52 | Designed synthesis of LiMn <sub>2</sub> O <sub>4</sub> microspheres with adjustable hollow structures for lithium-ion battery applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 837-842.   | 10.3 | 56        |
| 53 | Fluorinated Electrolytes for Li-Ion Batteries: The Lithium Difluoro(oxalato)borate Additive for Stabilizing the Solid Electrolyte Interphase. <i>ACS Omega</i> , 2017, 2, 8741-8750.  | 3.5  | 55        |
| 54 | Two-Dimensional Porous Micro/Nano Metal Oxides Templated by Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11984-11990.   | 8.0  | 54        |

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|----|--|------|-----------|
| 55 | Competitive Solvation-Induced Concurrent Protection on the Anode and Cathode toward a 400 Wh kg <sup>-1</sup> Lithium Metal Battery. ACS Energy Letters, 2021, 6, 115-123.   | 17.4 | 53        |
| 56 | Bronze-Phase TiO <sub>2</sub> as Anode Materials in Lithium and Sodium-Ion Batteries. Advanced Functional Materials, 2022, 32, .   | 14.9 | 53        |
| 57 | New perspective to understand the effect of electrochemical prelithiation behaviors on silicon monoxide. RSC Advances, 2018, 8, 14473-14478.   | 3.6  | 52        |
| 58 | Cerium ion intercalated MnO <sub>2</sub> nanospheres with high catalytic activity toward oxygen reduction reaction for aluminum-air batteries. Electrochimica Acta, 2018, 263, 544-554.  | 5.2  | 52        |
| 59 | Synthetic Methodologies for Carbon Nanomaterials. Advanced Materials, 2010, 22, 1963-1966.   | 21.0 | 50        |
| 60 | Synthesis of Three-Dimensional Nanoporous Li-Rich Layered Cathode Oxides for High Volumetric and Power Energy Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3661-3666.   | 8.0  | 50        |
| 61 | Localized concentration reversal of lithium during intercalation into nanoparticles. Science Advances, 2018, 4, eaao2608.  | 10.3 | 50        |
| 62 | A new family of Mn-based perovskite (La <sub>1-x</sub> Y <sub>x</sub> MnO <sub>3</sub> ) with improved oxygen electrocatalytic activity for metal-air batteries. Energy, 2018, 154, 561-570.   | 8.8  | 50        |
| 63 | One-Pot Synthesis of Co <sub>3</sub> O <sub>4</sub> /Ag Nanoparticles Supported on N-Doped Graphene as Efficient Bifunctional Oxygen Catalysts for Flexible Rechargeable Zinc-Air Batteries. Chemistry - A European Journal, 2018, 24, 14816-14823.                              | 3.3  | 49        |
| 64 | Identifying the chemical and structural irreversibility in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> as a model compound for classical layered intercalation. Journal of Materials Chemistry A, 2018, 6, 4189-4198.                               | 10.3 | 48        |
| 65 | Scalable in Situ Synthesis of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Carbon Nanohybrid with Supersmall Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Nanoparticles Homogeneously Embedded in Carbon Matrix. ACS Applied Materials & Interfaces, 2018, 10, 2591-2602. | 8.0  | 47        |
| 66 | Graphene network nested Cu foam for reducing size of lithium metal towards stable metallic lithium anode. Energy Storage Materials, 2019, 21, 107-114.   | 18.0 | 46        |
| 67 | Enhanced high voltage cyclability of LiCoO <sub>2</sub> cathode by adopting poly[bis-(ethoxyethoxyethoxy)phosphazene] with flame-retardant property as an electrolyte additive for lithium-ion batteries. Applied Surface Science, 2017, 403, 260-266.                           | 6.1  | 44        |
| 68 | Scalable synthesis of Si nanowires interconnected SiO <sub>x</sub> anode for high performance lithium-ion batteries. Journal of Alloys and Compounds, 2019, 783, 128-135.  | 5.5  | 43        |
| 69 | Electrocatalytic activity of silver decorated ceria microspheres for the oxygen reduction reaction and their application in aluminum-air batteries. Chemical Communications, 2017, 53, 7921-7924.  | 4.1  | 42        |
| 70 | Highly Reversible Li Plating Confined in Three-Dimensional Interconnected Microchannels toward High-Rate and Stable Metallic Lithium Anodes. ACS Applied Materials & Interfaces, 2018, 10, 20387-20395.  | 8.0  | 42        |
| 71 | Facile synthesis of ternary spinel Co-M-Ni nanorods as efficient bi-functional oxygen catalysts for rechargeable zinc-air batteries. Journal of Power Sources, 2019, 435, 226761.  | 7.8  | 42        |
| 72 | 5-Class Electrolytes Based on Fluorinated Solvents for Li-Ion Batteries with Excellent Cyclability. ChemElectroChem, 2015, 2, 1707-1712.   | 3.4  | 41        |

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|----|---|------|-----------|
| 73 | Polyethylene Glycol@Na <sup>+</sup> Interface of Vanadium Hexacyanoferrate Cathode for Highly Stable Rechargeable Aqueous Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 28762-28768.  | 8.0  | 41        |
| 74 | Niobium carbide/reduced graphene oxide hybrid porous aerogel as high capacity and long-life anode material for Li-ion batteries. International Journal of Energy Research, 2019, 43, 4995-5003.   | 4.5  | 40        |
| 75 | From ~20 °C to 150 °C: a lithium secondary battery with a wide temperature window obtained via manipulated competitive decomposition in electrolyte solution. Journal of Materials Chemistry A, 2021, 9, 9307-9318.   | 10.3 | 40        |
| 76 | Green Facile Scalable Synthesis of Titania/Carbon Nanocomposites: New Use of Old Dental Resins. ACS Applied Materials & Interfaces, 2014, 6, 18461-18468.   | 8.0  | 38        |
| 77 | One-pot synthesis of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> supported on flower-like CeO <sub>2</sub> as electrocatalyst for oxygen reduction reaction in aluminum-air batteries. Journal of Power Sources, 2017, 358, 50-60.                           | 7.8  | 38        |
| 78 | Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. Cell Reports Physical Science, 2020, 1, 100028.  | 5.6  | 37        |
| 79 | Eliminating Voltage Decay of Lithium-Rich Li <sub>1.14</sub> Mn <sub>0.54</sub> Ni <sub>0.14</sub> Co <sub>0.14</sub> O <sub>2</sub> Cathodes by Controlling the Electrochemical Process. Chemistry - A European Journal, 2015, 21, 7503-7510.                        | 3.3  | 36        |
| 80 | Facile Scalable Synthesis of TiO <sub>2</sub> /Carbon Nanohybrids with Ultrasmall TiO <sub>2</sub> Nanoparticles Homogeneously Embedded in Carbon Matrix. ACS Applied Materials & Interfaces, 2015, 7, 24247-24255.   | 8.0  | 36        |
| 81 | Silicon Oxycarbide/Carbon Nanohybrids with Tiny Silicon Oxycarbide Particles Embedded in Free Carbon Matrix Based on Photoactive Dental Methacrylates. ACS Applied Materials & Interfaces, 2016, 8, 13982-13992.  | 8.0  | 36        |
| 82 | Nitrogen-Doped Graphene Nanoscroll Foam with High Diffusion Rate and Binding Affinity for Removal of Organic Pollutants. Small, 2017, 13, 1603779.  | 10.0 | 36        |
| 83 | Oxidation Decomposition Mechanism of Fluoroethylene Carbonate-Based Electrolytes for High-Voltage Lithium Ion Batteries: A DFT Calculation and Experimental Study. ChemistrySelect, 2017, 2, 7353-7361.   | 1.5  | 36        |
| 84 | Promoting effects of Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> on the La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> electrocatalyst for the oxygen reduction reaction in metal-air batteries. Journal of Materials Chemistry A, 2017, 5, 6411-6415. | 10.3 | 35        |
| 85 | Synthesis and electrochemical performance of micro-sized Li-rich layered cathode material for Lithium-ion batteries. Electrochimica Acta, 2016, 211, 507-514.   | 5.2  | 34        |
| 86 | Silver nanoparticles supported on a nitrogen-doped graphene aerogel composite catalyst for an oxygen reduction reaction in aluminum air batteries. RSC Advances, 2016, 6, 99179-99183.  | 3.6  | 33        |
| 87 | La <sub>1-x</sub> Ag <sub>x</sub> MnO <sub>3</sub> electrocatalyst with high catalytic activity for oxygen reduction reaction in aluminium air batteries. RSC Advances, 2017, 7, 5214-5221.   | 3.6  | 33        |
| 88 | Revisiting the open-framework zinc hexacyanoferrate: The role of ternary electrolyte and sodium-ion intercalation mechanism. Journal of Power Sources, 2018, 380, 135-141.  | 7.8  | 33        |
| 89 | Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. Advanced Functional Materials, 2018, 28, 1805255.  | 14.9 | 33        |
| 90 | A LiPO <sub>2</sub> F <sub>2</sub> /LiFSI dual-salt electrolyte enabled stable cycling of lithium metal batteries. Journal of Power Sources, 2018, 400, 449-456.  | 7.8  | 33        |

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|-----|--|------|-----------|
| 91  | Attapulgite nanofibers and graphene oxide composite membrane for high-performance molecular separation. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 276-281.                                      | 9.4  | 33        |
| 92  | Graphene Modified Polyaniline-Hydrogel Based Stretchable Supercapacitor with High Capacitance and Excellent Stretching Stability. <i>ChemSusChem</i> , 2021, 14, 938-945.  | 6.8  | 33        |
| 93  | La <sub>0.7</sub> (Sr <sub>0.3-x</sub> Pdx)MnO <sub>3</sub> as a highly efficient electrocatalyst for oxygen reduction reaction in aluminum air battery. <i>Electrochimica Acta</i> , 2017, 230, 418-427.          | 5.2  | 32        |
| 94  | Controlling siloxene oxidization to tailor SiO <sub>x</sub> anodes for high performance lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 432, 65-72.   | 7.8  | 32        |
| 95  | Double-helix-superstructure aqueous binder to boost excellent electrochemical performance in Li-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2019, 420, 29-37.                                    | 7.8  | 32        |
| 96  | Direct Regeneration of Spent Lithium Iron Phosphate via a Low-Temperature Molten Salt Process Coupled with a Reductive Environment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 3831-3839.  | 3.7  | 31        |
| 97  | A bifunctional hierarchical porous carbon network integrated with an in situ formed ultrathin graphene shell for stable lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13674-13682.  | 10.3 | 30        |
| 98  | Understanding the Discrepancy of Defect Kinetics on Anionic Redox in Lithium-Rich Cathode Oxides. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14023-14034.   | 8.0  | 30        |
| 99  | All annealing-free solution-processed highly flexible organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5425-5433.   | 10.3 | 30        |
| 100 | Hydrothermal self-assembly of graphene foams with controllable pore size. <i>RSC Advances</i> , 2016, 6, 20843-20849.  | 3.6  | 29        |
| 101 | Effect of alumina on the curvature, Young's modulus, thermal expansion coefficient and residual stress of planar solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7639-7644.                   | 7.8  | 28        |
| 102 | Physicochemical and Electrochemical Properties of 1,1,2,2-Tetrafluoroethyl-2,2,3,3-tetrafluoropropyl Ether as a Co-Solvent for High-Voltage Lithium-Ion Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 3747-3755. | 3.4  | 28        |
| 103 | Ordered self-assembly of amphipathic graphene nanosheets into three-dimensional layered architectures. <i>Nanoscale</i> , 2016, 8, 197-203.  | 5.6  | 26        |
| 104 | Oriented Arrangement: The Origin of Versatility for Porous Graphene Materials. <i>Small</i> , 2017, 13, 1701231.   | 10.0 | 26        |
| 105 | Dental Resin Monomer Enables Unique NbO <sub>2</sub> /Carbon Lithium-Ion Battery Negative Electrode with Exceptional Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1904961.                        | 14.9 | 26        |
| 106 | Organosilicon-Based Functional Electrolytes for High-Performance Lithium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101057.  | 19.5 | 26        |
| 107 | Stabilization effects of Al doping for enhanced cycling performances of Li-rich layered oxides. <i>Ceramics International</i> , 2017, 43, 13845-13852.   | 4.8  | 25        |
| 108 | Ultrasmall Co <sub>3</sub> O <sub>4</sub> Nanoparticles Confined in P, N-Doped Carbon Matrices for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9225-9232.                | 3.1  | 25        |



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|-----|--|------|-----------|
| 109 | Synergistic Effect of Lewis Base Polymers and Graphene in Enhancing the Efficiency of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 3928-3936.  | 5.1  | 25        |
| 110 | Vapor-assisted synthesis of hierarchical porous graphitic carbon materials towards energy storage devices. <i>Journal of Power Sources</i> , 2019, 425, 10-16.   | 7.8  | 24        |
| 111 | Rational Design and Mechanical Understanding of Three-Dimensional Macro-/Mesoporous Silicon Lithium-Ion Battery Anodes with a Tunable Pore Size and Wall Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43785-43797. | 8.0  | 24        |
| 112 | Structure-preserved 3D porous silicon/reduced graphene oxide materials as anodes for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 24305-24311.   | 3.6  | 23        |
| 113 | Slurry-like hybrid electrolyte with high lithium-ion transference number for dendrite-free lithium metal anode. <i>Journal of Energy Chemistry</i> , 2020, 48, 375-382.  | 12.9 | 23        |
| 114 | Stable Electrode/Electrolyte Interface for High-Voltage NCM 523 Cathode Constructed by Synergistic Positive and Passive Approaches. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57107-57117.                                 | 8.0  | 23        |
| 115 | TiO <sub>2</sub> (B)-CNT/graphene ternary composite anode material for lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 22449-22454.  | 3.6  | 22        |
| 116 | Template-directed fabrication of porous gas diffusion layer for magnesium air batteries. <i>Journal of Power Sources</i> , 2015, 297, 202-207.   | 7.8  | 22        |
| 117 | A compressible and hierarchical porous graphene/Co composite aerogel for lithium-ion batteries with high gravimetric/volumetric capacity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6021-6028.                                    | 10.3 | 22        |
| 118 | Hierarchical porous MnO/graphene composite aerogel as high-performance anode material for lithium ion batteries. <i>RSC Advances</i> , 2017, 7, 15857-15863.   | 3.6  | 22        |
| 119 | Microporous Binder for the Silicon-Based Lithium-Ion Battery Anode with Exceptional Rate Capability and Improved Cyclic Performance. <i>Langmuir</i> , 2020, 36, 2003-2011.  | 3.5  | 22        |
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