# Zhen Li

List of Publications by Year
in descending order

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| | | 50273 | 37202 |
|---|---|---|---|
| 97 | 11,549 | 46 | 96 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 101 | 101 | 101 | 11153 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hollow Carbon Nanofibers Filled with MnO<sub>2</sub> Nanosheets as Efficient Sulfur Hosts for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2015, 54, 12886-12890. | 13.8 | 765 |
| 2 | MOFâ€Derived Porous ZnO/ZnFe<sub>2</sub>O<sub>4</sub>/C Octahedra with Hollow Interiors for Highâ€Rate Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 6622-6628. | 21.0 | 703 |
| 3 | Rational designs and engineering of hollow micro-/nanostructures as sulfur hosts for advanced lithiumâ€“sulfur batteries. Energy and Environmental Science, 2016, 9, 3061-3070. | 30.8 | 598 |
| 4 | A sulfur host based on titanium monoxide@carbon hollow spheres for advanced lithiumâ€“sulfur batteries. Nature Communications, 2016, 7, 13065. | 12.8 | 590 |
| 5 | A Highly Ordered Meso@Microporous Carbon-Supported Sulfur@Smaller Sulfur Coreâ€“Shell Structured Cathode for Liâ€“S Batteries. ACS Nano, 2014, 8, 9295-9303. | 14.6 | 552 |
| 6 | Doubleâ€Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as Highâ€Efficiency Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 3982-3986. | 13.8 | 505 |
| 7 | Pie-like electrode design for high-energy density lithiumâ€“sulfur batteries. Nature Communications, 2015, 6, 8850. | 12.8 | 453 |
| 8 | Insight into the Electrode Mechanism in Lithiumâ€Sulfur Batteries with Ordered Microporous Carbon Confined Sulfur as the Cathode. Advanced Energy Materials, 2014, 4, 1301473. | 19.5 | 418 |
| 9 | Status and prospects in sulfurâ€“carbon composites as cathode materials for rechargeable lithiumâ€“sulfur batteries. Carbon, 2015, 92, 41-63. | 10.3 | 371 |
| 10 | Hierarchical MoS <sub>2</sub> tubular structures internally wired by carbon nanotubes as a highly stable anode material for lithium-ion batteries. Science Advances, 2016, 2, e1600021. | 10.3 | 362 |
| 11 | Nickelâ€“Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2018, 57, 10944-10948. | 13.8 | 269 |
| 12 | A Compact Nanoconfined Sulfur Cathode for High-Performance Lithium-Sulfur Batteries. Joule, 2017, 1, 576-587. | 24.0 | 255 |
| 13 | Sodium storage in Na-rich Na x FeFe(CN) 6 nanocubes. Nano Energy, 2015, 12, 386-393. | 16.0 | 253 |
| 14 | General Formation of M<sub>x</sub>Co<sub>3â^'x</sub>S<sub>4</sub> (M=Ni, Mn, Zn) Hollow Tubular Structures for Hybrid Supercapacitors. Angewandte Chemie - International Edition, 2015, 54, 10521-10524. | 13.8 | 247 |
| 15 | Ultrathin, Flexible Polymer Electrolyte for Costâ€Effective Fabrication of Allâ€Solidâ€State Lithium Metal Batteries. Advanced Energy Materials, 2019, 9, 1902767. | 19.5 | 239 |
| 16 | Reducing the thickness of solid-state electrolyte membranes for high-energy lithium batteries. Energy and Environmental Science, 2021, 14, 12-36. | 30.8 | 236 |
| 17 | Confined selenium within porous carbon nanospheres as cathode for advanced Liâ€“Se batteries. Nano Energy, 2014, 9, 229-236. | 16.0 | 233 |
| 18 | Metallic 1T MoS<sub>2</sub> nanosheet arrays vertically grown on activated carbon fiber cloth for enhanced Li-ion storage performance. Journal of Materials Chemistry A, 2017, 5, 14061-14069. | 10.3 | 232 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A modular strategy for decorating isolated cobalt atoms into multichannel carbon matrix for electrocatalytic oxygen reduction. Energy and Environmental Science, 2018, 11, 1980-1984. | 30.8 | 225 |
| 20 | A pyrolyzed polyacrylonitrile/selenium disulfide composite cathode with remarkable lithium and sodium storage performances. Science Advances, 2018, 4, eaat1687. | 10.3 | 225 |
| 21 | Flexible and Binderâ€Free Electrodes of Sb/rGO and Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/rGO Nanocomposites for Sodiumâ€Ion Batteries. Small, 2015, 11, 3822-3829. | 10.0 | 184 |
| 22 | A flame-retardant polymer electrolyte for high performance lithium metal batteries with an expanded operation temperature. Energy and Environmental Science, 2021, 14, 3510-3521. | 30.8 | 156 |
| 23 | Engineering stable electrode-separator interfaces with ultrathin conductive polymer layer for high-energy-density Li-S batteries. Energy Storage Materials, 2019, 23, 261-268. | 18.0 | 149 |
| 24 | Necklaceâ€Like Structures Composed of Fe<sub>3</sub>N@C Yolkâ€“Shell Particles as an Advanced Anode for Sodiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1800525. | 21.0 | 145 |
| 25 | High-performance aqueous sodium-ion batteries with K0.27MnO2 cathode and their sodium storage mechanism. Nano Energy, 2014, 5, 97-104. | 16.0 | 138 |
| 26 | Coral-like Î±-MnS composites with N-doped carbon as anode materials for high-performance lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 24026. | 6.7 | 134 |
| 27 | SnO<sub>2</sub>as a high-efficiency polysulfide trap in lithiumâ€“sulfur batteries. Nanoscale, 2016, 8, 13638-13645. | 5.6 | 131 |
| 28 | A Freestanding Selenium Disulfide Cathode Based on Cobalt Disulfideâ€Decorated Multichannel Carbon Fibers with Enhanced Lithium Storage Performance. Angewandte Chemie - International Edition, 2017, 56, 14107-14112. | 13.8 | 113 |
| 29 | An Improved Liâ€“SeS<sub>2</sub> Battery with High Energy Density and Long Cycle Life. Advanced Energy Materials, 2017, 7, 1700281. | 19.5 | 111 |
| 30 | Mesoporous Carbon@Titanium Nitride Hollow Spheres as an Efficient SeS<sub>2</sub> Host for Advanced Liâ€“SeS<sub>2</sub> Batteries. Angewandte Chemie - International Edition, 2017, 56, 16003-16007. | 13.8 | 111 |
| 31 | Polycationic Polymer Layer for Airâ€Stable and Dendriteâ€Free Li Metal Anodes in Carbonate Electrolytes. Advanced Materials, 2021, 33, e2007428. | 21.0 | 94 |
| 32 | High-performance lithiumâ€“selenium batteries promoted by heteroatom-doped microporous carbon. Journal of Materials Chemistry A, 2015, 3, 3059-3065. | 10.3 | 90 |
| 33 | Nonporous MOF-derived dopant-free mesoporous carbon as an efficient metal-free electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 9370-9374. | 10.3 | 85 |
| 34 | A dual coaxial nanocable sulfur composite for high-rate lithiumâ€“sulfur batteries. Nanoscale, 2014, 6, 1653-1660. | 5.6 | 82 |
| 35 | Rationally Design a Sulfur Cathode with Solidâ€Phase Conversion Mechanism for High Cycleâ€Stable Liâ€“S Batteries. Advanced Energy Materials, 2021, 11, 2003690. | 19.5 | 82 |
| 36 | Ultrafine nano-sulfur particles anchored on in situ exfoliated graphene for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 9412-9417. | 10.3 | 80 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Elevated Lithium Ion Regulation by a â€œNatural Silkâ€•Modified Separator for Highâ€Performance Lithium Metal Anode. Advanced Functional Materials, 2021, 31, 2100537. | 14.9 | 79 |
| 38 | Facile fabrication of CuO nanosheets on Cu substrate as anode materials for electrochemical energy storage. Journal of Alloys and Compounds, 2014, 586, 208-215. | 5.5 | 74 |
| 39 | High performance lithium-sulfur batteries with a facile and effective dual functional separator. Electrochimica Acta, 2016, 200, 197-203. | 5.2 | 71 |
| 40 | Li2S-based anode-free full batteries with modified Cu current collector. Energy Storage Materials, 2020, 30, 179-186. | 18.0 | 71 |
| 41 | Nanostructured alkali cation incorporated Î´-MnO<sub>2</sub>cathode materials for aqueous sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 7780-7785. | 10.3 | 70 |
| 42 | Electrolyte with boron nitride nanosheets as leveling agent towards dendrite-free lithium metal anodes. Nano Energy, 2020, 72, 104725. | 16.0 | 63 |
| 43 | Doubleâ€Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as Highâ€Efficiency Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2016, 128, 4050-4054. | 2.0 | 62 |
| 44 | High sulfur-containing organosulfur polymer composite cathode embedded by monoclinic S for lithium sulfur batteries. Energy Storage Materials, 2020, 26, 570-576. | 18.0 | 62 |
| 45 | Recent progress of asymmetric solid-state electrolytes for lithium/sodium-metal batteries. EnergyChem, 2021, 3, 100058. | 19.1 | 47 |
| 46 | Improving the electrochemical performance of a lithiumâ€“sulfur battery with a conductive polymer-coated sulfur cathode. RSC Advances, 2015, 5, 44160-44164. | 3.6 | 46 |
| 47 | Green and scalable synthesis of porous carbon nanosheet-assembled hierarchical architectures for robust capacitive energy harvesting. Carbon, 2019, 152, 537-544. | 10.3 | 45 |
| 48 | Sowing Silver Seeds within Patterned Ditches for Dendriteâ€Free Lithium Metal Batteries. Advanced Science, 2021, 8, e2100684. | 11.2 | 42 |
| 49 | Molecular evolution of the HD-ZIP I gene family in legume genomes. Gene, 2014, 533, 218-228. | 2.2 | 41 |
| 50 | Oxygen plasma modified separator for lithium sulfur battery. RSC Advances, 2015, 5, 79473-79478. | 3.6 | 39 |
| 51 | Ultrathin Conductive Interlayer with Highâ€Density Antisite Defects for Advanced Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2001201. | 14.9 | 38 |
| 52 | Improving Na/Na<sub>3</sub>Zr<sub>2</sub>Si<sub>2</sub>PO<sub>12</sub> Interface via SnO<sub>x</sub>/Sn Film for Highâ€Performance Solidâ€State Sodium Metal Batteries. Small Methods, 2021, 5, e2100339. | 8.6 | 38 |
| 53 | Direct optical fiber monitor on stress evolution of the sulfur-based cathodes for lithiumâ€“sulfur batteries. Energy and Environmental Science, 2022, 15, 2029-2038. | 30.8 | 38 |
| 54 | Air-stable means more: designing air-defendable lithium metals for safe and stable batteries. Materials Horizons, 2020, 7, 2619-2634. | 12.2 | 37 |

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|---|---|---|---|
| 55 | Realizing an Applicable â€œSolid â†' Solidâ€•Cathode Process via a Transplantable Solid Electrolyte Interface for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 29830-29837. | 8.0 | 36 |
| 56 | Stable Lithium Metal Anode Enabled by 3D Soft Host. ACS Applied Materials & Interfaces, 2020, 12, 28337-28344. | 8.0 | 36 |
| 57 | Nickelâ€“Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2018, 130, 11110-11114. | 2.0 | 35 |
| 58 | Advanced Characterization Techniques for Interface in Allâ€Solidâ€State Batteries. Small Methods, 2020, 4, 2000111. | 8.6 | 35 |
| 59 | Composite Lithium Metal Anodes with Lithiophilic and Lowâ€Tortuosity Scaffold Enabling Ultrahigh Currents and Capacities in Carbonate Electrolytes. Advanced Functional Materials, 2021, 31, 2009961. | 14.9 | 32 |
| 60 | Insight into the Fading Mechanism of the Solidâ€Conversion Sulfur Cathodes and Designing Long Cycle Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, 2102774. | 19.5 | 31 |
| 61 | Low-cost fumed silicon dioxide uniform Li+ flux for lean-electrolyte and anode-free Li/S battery. Energy Storage Materials, 2022, 48, 366-374. | 18.0 | 30 |
| 62 | Advanced Li<sub>2</sub>S/Si Full Battery Enabled by TiN Polysulfide Immobilizer. Small, 2019, 15, e1902377. | 10.0 | 29 |
| 63 | Construct an Ultrathin Bismuth Buffer for Stable Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 12793-12800. | 8.0 | 29 |
| 64 | High-performance lithium-selenium battery with Se/microporous carbon composite cathode and carbonate-based electrolyte. Science China Materials, 2015, 58, 91-97. | 6.3 | 28 |
| 65 | Methods and Cost Estimation for the Synthesis of Nanosized Lithium Sulfide. Small Structures, 2021, 2, 2000059. | 12.0 | 27 |
| 66 | A label-free amplified fluorescence DNA detection based on isothermal circular strand-displacement polymerization reaction and graphene oxide. Analyst, The, 2013, 138, 3616. | 3.5 | 26 |
| 67 | Recent Advances in Cathode Materials for Roomâ€Temperature Sodiumâ^'Sulfur Batteries. ChemPhysChem, 2019, 20, 3164-3176. | 2.1 | 26 |
| 68 | Facile one-step vulcanization of copper foil towards stable Li metal anode. Science China Materials, 2020, 63, 1663-1671. | 6.3 | 24 |
| 69 | A label free exonuclease III-aided fluorescence assay for adenosine triphosphate based on graphene oxide and ligation reaction. New Journal of Chemistry, 2013, 37, 927. | 2.8 | 23 |
| 70 | An oxygen vacancy-rich ZnO layer on garnet electrolyte enables dendrite-free solid state lithium metal batteries. Chemical Engineering Journal, 2022, 433, 133665. | 12.7 | 23 |
| 71 | A Freestanding Selenium Disulfide Cathode Based on Cobalt Disulfideâ€Decorated Multichannel Carbon Fibers with Enhanced Lithium Storage Performance. Angewandte Chemie, 2017, 129, 14295-14300. | 2.0 | 21 |
| 72 | Solid/Quasiâ€Solid Phase Conversion of Sulfur in Lithiumâ€“Sulfur Battery. Small, 2022, 18, e2106970. | 10.0 | 21 |

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|---|---|---|---|
| 73 | Mesoporous Carbon@Titanium Nitride Hollow Spheres as an Efficient SeS<sub>2</sub> Host for Advanced Liâ€“SeS<sub>2</sub> Batteries. Angewandte Chemie, 2017, 129, 16219-16223. | 2.0 | 19 |
| 74 | Highly Reversible and Anticorrosive Zn Anode Enabled by a Ag Nanowires Layer. ACS Applied Materials & Interfaces, 2022, 14, 9097-9105. | 8.0 | 19 |
| 75 | In Situ Constructing Coordination Compounds Interphase to Stabilize Zn Metal Anode for Highâ€Performance Aqueous Znâ€“SeS<sub>2</sub> Batteries. Small, 2022, 18, e2200567. | 10.0 | 19 |
| 76 | Enabling Seleniumâ€Rich Se<sub>x</sub>S<sub>y</sub> Cathodes to Work in Carbonateâ€Based Electrolytes. Advanced Energy Materials, 2022, 12, 2102832. | 19.5 | 16 |
| 77 | Engineering a High-Voltage Durable Cathode/Electrolyte Interface for All-Solid-State Lithium Metal Batteries via In Situ Electropolymerization. ACS Applied Materials & Interfaces, 2022, 14, 21018-21027. | 8.0 | 15 |
| 78 | A separator modified by high efficiency oxygen plasma for lithium ion batteries with superior performance. RSC Advances, 2015, 5, 92995-93001. | 3.6 | 14 |
| 79 | Porous ZnO/Co<sub>3</sub>O<sub>4</sub>/N-doped carbon nanocages synthesized via pyrolysis of complex metalâ€“organic framework (MOF) hybrids as an advanced lithium-ion battery anode. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 969-978. | 0.5 | 13 |
| 80 | Reactivating Dead Li by Shuttle Effect for High-Performance Anode-Free Li Metal Batteries. Journal of the Electrochemical Society, 2021, 168, 120535. | 2.9 | 13 |
| 81 | Molecular characterisation of Apolipophorin-III gene in Samia cynthia ricini and its roles in response to bacterial infection. Journal of Invertebrate Pathology, 2018, 159, 61-70. | 3.2 | 12 |
| 82 | Comparative transcriptome analysis reveals significant metabolic alterations in eri-silkworm (Samia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 2.5 | 12 |
| 83 | Constructing Stable Anodic Interphase for Quasi-Solid-State Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 39335-39341. | 8.0 | 12 |
| 84 | In situ protection of a sulfur cathode and a lithium anode via adopting a fluorinated electrolyte for stable lithium-sulfur batteries. Science China Materials, 2021, 64, 2127-2138. | 6.3 | 12 |
| 85 | Molecular Characterization and Functional Analysis of a Ferritin Heavy Chain Subunit from the Eri-Silkworm, Samia cynthia ricini. International Journal of Molecular Sciences, 2017, 18, 2126. | 4.1 | 11 |
| 86 | Stable Room-Temperature Sodiumâ€“Sulfur Batteries in Ether-Based Electrolytes Enabled by the Fluoroethylene Carbonate Additive. ACS Applied Materials & Interfaces, 2022, 14, 6658-6666. | 8.0 | 11 |
| 87 | Improving the cycling stability of lithium metal anodes using Cu3N-modified Cu foil as a current collector. Science China Materials, 2022, 65, 2385-2392. | 6.3 | 11 |
| 88 | Molecular Characterization of Two Mitogen-Activated Protein Kinases: p38 MAP Kinase and Ribosomal S6 Kinase From Bombyx mori (Lepidoptera: Bombycidae), and Insight Into Their Roles in Response to BmNPV Infection. Journal of Insect Science, 2019, 19, . | 1.5 | 10 |
| 89 | Novel double-cathode configuration to improve the cycling stability of lithiumâ€“sulfur battery. RSC Advances, 2015, 5, 14196-14201. | 3.6 | 9 |
| 90 | Lithiumâ€Metal Batteries: Polycationic Polymer Layer for Airâ€Stable and Dendriteâ€Free Li Metal Anodes in Carbonate Electrolytes (Adv. Mater. 12/2021). Advanced Materials, 2021, 33, 2170087. | 21.0 | 2 |

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|---|---|---|---|
| 91 | Optimizing the operation strategy of solid-conversion sulfur cathodes for achieving high total capacity contribution throughout the lifespan. Journal of Power Sources, 2022, 543, 231837. | 7.8 | 2 |
| 92 | Frontispiece: Hollow Carbon Nanofibers Filled with MnO<sub>2</sub> Nanosheets as Efficient Sulfur Hosts for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2015, 54, . | 13.8 | 1 |
| 93 | All-solid-state batteries. , 2022, , 343-361. | | 1 |
| 94 | é”,ç¡«ç”µæ±ç»¼å•æ€§èƒ½åéŒæéž‡ç–•ç•¥. Chinese Science Bulletin, 2022, , . | 0.7 | 1 |
| 95 | Frontispiz: Hollow Carbon Nanofibers Filled with MnO2Nanosheets as Efficient Sulfur Hosts for Lithium-Sulfur Batteries. Angewandte Chemie, 2015, 127, n/a-n/a. | 2.0 | 0 |
| 96 | Ultrathin Conductive Interlayers: Ultrathin Conductive Interlayer with Highâ€Density Antisite Defects for Advanced Lithiumâ€“Sulfur Batteries (Adv. Funct. Mater. 2/2021). Advanced Functional Materials, 2021, 31, 2170012. | 14.9 | 0 |
| 97 | Porous carbonâ€“sulfur composite cathodes. , 2022, , 207-224. | | 0 |