

Guangmin Zhou

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162
papers

26,767
citations

67
h-index

163
g-index

181
ext. papers

30,963
ext. citations

15.8
avg. IF

7.31
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 162 | Graphene anchored with Co_3O_4 nanoparticles as anode of lithium ion batteries with enhanced reversible capacity and cyclic performance. <i>ACS Nano</i> , 2010 , 4, 3187-94 | 16.7 | 2201 |
| 161 | Graphene-Wrapped Fe_3O_4 Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2010 , 22, 5306-5313 | 9.6 | 1660 |
| 160 | Graphene/metal oxide composite electrode materials for energy storage. <i>Nano Energy</i> , 2012 , 1, 107-131 | 17.1 | 1507 |
| 159 | Progress in flexible lithium batteries and future prospects. <i>Energy and Environmental Science</i> , 2014 , 7, 1307-1338 | 35.4 | 1103 |
| 158 | Anchoring Hydrated RuO_2 on Graphene Sheets for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2010 , 20, 3595-3602 | 15.6 | 1033 |
| 157 | Balancing surface adsorption and diffusion of lithium-polysulfides on nonconductive oxides for lithium-sulfur battery design. <i>Nature Communications</i> , 2016 , 7, 11203 | 17.4 | 866 |
| 156 | Oxygen bridges between NiO nanosheets and graphene for improvement of lithium storage. <i>ACS Nano</i> , 2012 , 6, 3214-23 | 16.7 | 866 |
| 155 | A graphene-pure-sulfur sandwich structure for ultrafast, long-life lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 625-31, 664 | 24 | 842 |
| 154 | Long-life Li/polysulphide batteries with high sulphur loading enabled by lightweight three-dimensional nitrogen/sulphur-codoped graphene sponge. <i>Nature Communications</i> , 2015 , 6, 7760 | 17.4 | 802 |
| 153 | Catalytic oxidation of Li_2S on the surface of metal sulfides for Li-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 840-845 | 11.5 | 742 |
| 152 | Fibrous hybrid of graphene and sulfur nanocrystals for high-performance lithium-sulfur batteries. <i>ACS Nano</i> , 2013 , 7, 5367-75 | 16.7 | 670 |
| 151 | Carbon-sulfur composites for Li-S batteries: status and prospects. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9382 | 13 | 664 |
| 150 | Twinborn TiO_2/TiN heterostructures enabling smooth trapping/diffusion/conversion of polysulfides towards ultralong life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1694-1703 | 35.4 | 647 |
| 149 | A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. <i>Nano Energy</i> , 2015 , 11, 356-365 | 17.1 | 476 |
| 148 | Catalytic Effects in Lithium-Sulfur Batteries: Promoted Sulfur Transformation and Reduced Shuttle Effect. <i>Advanced Science</i> , 2018 , 5, 1700270 | 13.6 | 471 |
| 147 | A flexible sulfur-graphene-polypropylene separator integrated electrode for advanced Li-S batteries. <i>Advanced Materials</i> , 2015 , 27, 641-7 | 24 | 466 |
| 146 | A flexible nanostructured sulphur-carbon nanotube cathode with high rate performance for Li-S batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 8901 | 35.4 | 422 |

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| 145 | Dual-Confined Flexible Sulfur Cathodes Encapsulated in Nitrogen-Doped Double-Shelled Hollow Carbon Spheres and Wrapped with Graphene for LiS Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1402263 | 21.8 | 402 |
| 144 | Entrapment of Polysulfides by a Black-Phosphorus-Modified Separator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 9797-9803 | 24 | 371 |
| 143 | Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%. <i>Energy and Environmental Science</i> , 2017 , 10, 580-592 | 35.4 | 335 |
| 142 | Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured LiLaZrO/Carbon Foam and Polymer. <i>Nano Letters</i> , 2017 , 17, 2967-2972 | 11.5 | 297 |
| 141 | Capture and Catalytic Conversion of Polysulfides by In Situ Built TiO ₂ -MXene Heterostructures for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900219 | 21.8 | 291 |
| 140 | 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 |
| 139 | Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 510-7 | 24 | 289 |
| 138 | Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016 , 2, e1501764 | 14.3 | 281 |
| 137 | Propelling polysulfides transformation for high-rate and long-life lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 33, 306-312 | 17.1 | 277 |
| 136 | Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. <i>Nano Energy</i> , 2016 , 25, 203-210 | 17.1 | 274 |
| 135 | Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. <i>Nano Letters</i> , 2017 , 17, 3731-3737 | 11.5 | 270 |
| 134 | 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 |
| 133 | A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8703-10 | 3.6 | 258 |
| 132 | Free-standing TiO ₂ nanowire-embedded graphene hybrid membrane for advanced Li/dissolved polysulfide batteries. <i>Nano Energy</i> , 2015 , 12, 240-249 | 17.1 | 225 |
| 131 | Improved Lithium Ionic Conductivity in Composite Polymer Electrolytes with Oxide-Ion Conducting Nanowires. <i>ACS Nano</i> , 2016 , 10, 11407-11413 | 16.7 | 216 |
| 130 | Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018 , 1, 105-112 | 22.1 | 206 |
| 129 | 3D Porous Sponge-Inspired Electrode for Stretchable Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 3578-83 | 24 | 199 |
| 128 | Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703404 | 21.8 | 198 |

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| 127 | Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity. <i>Accounts of Chemical Research</i> , 2017 , 50, 2895-2905 | 24.3 | 198 |
| 126 | Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Li-S Batteries. <i>Nano Letters</i> , 2020 , 20, 1252-1261 | 11.5 | 194 |
| 125 | Efficient Activation of Li ₂ S by Transition Metal Phosphides Nanoparticles for Highly Stable Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 1711-1719 | 20.1 | 180 |
| 124 | Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019 , 119, 11042-11109 | 68.1 | 167 |
| 123 | High-Performance Lithium-Sulfur Batteries with a Self-Supported, 3D Li ₂ S-Doped Graphene Aerogel Cathodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1501355 | 21.8 | 166 |
| 122 | Thermal Management in Nanofiber-Based Face Mask. <i>Nano Letters</i> , 2017 , 17, 3506-3510 | 11.5 | 158 |
| 121 | Facilitation of sulfur evolution reaction by pyridinic nitrogen doped carbon nanoflakes for highly-stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018 , 10, 1-9 | 19.4 | 157 |
| 120 | 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 |
| 119 | Hierarchical Graphene/Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. <i>Advanced Functional Materials</i> , 2014 , 24, 4222-4228 | 15.6 | 145 |
| 118 | A nanosized Fe ₂ O ₃ decorated single-walled carbon nanotube membrane as a high-performance flexible anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17942 | | 143 |
| 117 | Bidirectional Catalysts for Liquid-Solid Redox Conversion in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000315 | 24 | 137 |
| 116 | Sulfiphilic Nickel Phosphosulfide Enabled Li S Impregnation in 3D Graphene Cages for Li-S Batteries. <i>Advanced Materials</i> , 2017 , 29, 1603366 | 24 | 127 |
| 115 | Monolithic Fe ₂ O ₃ /graphene hybrid for highly efficient lithium storage and arsenic removal. <i>Carbon</i> , 2014 , 67, 500-507 | 10.4 | 124 |
| 114 | A Self-Standing and Flexible Electrode of Li ₄ Ti ₅ O ₁₂ Nanosheets with a N-Doped Carbon Coating for High Rate Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 5429-5435 | 15.6 | 122 |
| 113 | Stretchable Lithium-Ion Batteries Enabled by Device-Scaled Wavy Structure and Elastic-Sticky Separator. <i>Advanced Energy Materials</i> , 2017 , 7, 1701076 | 21.8 | 120 |
| 112 | An in-plane heterostructure of graphene and titanium carbide for efficient polysulfide confinement. <i>Nano Energy</i> , 2017 , 39, 291-296 | 17.1 | 117 |
| 111 | Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. <i>Carbon</i> , 2016 , 108, 120-126 | 10.4 | 115 |
| 110 | Highly Dispersed Cobalt Clusters in Nitrogen-Doped Porous Carbon Enable Multiple Effects for High-Performance LiS Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 1903550 | 21.8 | 114 |

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| 109 | N and S co-doped porous carbon spheres prepared using L-cysteine as a dual functional agent for high-performance lithium-sulfur batteries. <i>Chemical Communications</i> , 2015 , 51, 17720-3 | 5.8 | 109 |
| 108 | Optimized Catalytic WS ₂ /WO ₃ Heterostructure Design for Accelerated Polysulfide Conversion in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000091 | 21.8 | 109 |
| 107 | An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. <i>ACS Central Science</i> , 2018 , 4, 260-267 | 16.8 | 107 |
| 106 | Metallurgically lithiated SiO _x anode with high capacity and ambient air compatibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7408-13 | 11.5 | 103 |
| 105 | Effects of oxygen vacancies on the electrochemical performance of tin oxide. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1536-1539 | 13 | 101 |
| 104 | Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. <i>Carbon</i> , 2016 , 109, 1-6 | 10.4 | 98 |
| 103 | Quantitative investigation of polysulfide adsorption capability of candidate materials for Li-S batteries. <i>Energy Storage Materials</i> , 2018 , 13, 241-246 | 19.4 | 96 |
| 102 | Co ₃ O ₄ mesoporous nanostructures@graphene membrane as an integrated anode for long-life lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 255, 52-58 | 8.9 | 92 |
| 101 | Highly Nitridated Graphene/Li ₂ S Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015 , 5, 1501369 | 21.8 | 87 |
| 100 | A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. <i>Nanoscale</i> , 2015 , 7, 5592-7 | 7.7 | 83 |
| 99 | An Interconnected Channel-Like Framework as Host for Lithium Metal Composite Anodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1802720 | 21.8 | 70 |
| 98 | Reversible and selective ion intercalation through the top surface of few-layer MoS ₂ . <i>Nature Communications</i> , 2018 , 9, 5289 | 17.4 | 70 |
| 97 | Nanosize SnO ₂ confined in the porous shells of carbon cages for kinetically efficient and long-term lithium storage. <i>Nanoscale</i> , 2013 , 5, 1576-82 | 7.7 | 68 |
| 96 | Durability of the Li _{1+x} Ti _{2-x} Al _x (PO ₄) ₃ Solid Electrolyte in Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 1080-1085 | 20.1 | 67 |
| 95 | Electrostatic-spraying an ultrathin, multifunctional and compact coating onto a cathode for a long-life and high-rate lithium-sulfur battery. <i>Nano Energy</i> , 2016 , 30, 138-145 | 17.1 | 65 |
| 94 | A Lightweight 3D Cu Nanowire Network with Phosphidation Gradient as Current Collector for High-Density Nucleation and Stable Deposition of Lithium. <i>Advanced Materials</i> , 2019 , 31, e1904991 | 24 | 64 |
| 93 | Hollow carbon cage with nanocapsules of graphitic shell/nickel core as an anode material for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11252 | | 64 |
| 92 | Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020 , 5, 786-793 | 62.3 | 63 |

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|----|--|------|----|
| 91 | TiO ₂ /graphene sandwich paper as an anisotropic electrode for high rate lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 7780-4 | 7.7 | 62 |
| 90 | Tailoring Microstructure of Graphene-Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. <i>Advanced Functional Materials</i> , 2014 , 24, 3456-3463 | 15.6 | 61 |
| 89 | The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3607 | 13 | 61 |
| 88 | A Universal Seeding Strategy to Synthesize Single Atom Catalysts on 2D Materials for Electrocatalytic Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1906157 | 15.6 | 60 |
| 87 | Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. <i>Science Advances</i> , 2019 , 5, eaau5655 | 14.3 | 57 |
| 86 | A general prelithiation approach for group IV elements and corresponding oxides. <i>Energy Storage Materials</i> , 2018 , 10, 275-281 | 19.4 | 56 |
| 85 | Twin-functional graphene oxide: compacting with Fe ₂ O ₃ into a high volumetric capacity anode for lithium ion battery. <i>Energy Storage Materials</i> , 2017 , 6, 98-103 | 19.4 | 56 |
| 84 | Localized polyselenides in a graphene-coated polymer separator for high rate and ultralong life lithium-selenium batteries. <i>Chemical Communications</i> , 2015 , 51, 3667-70 | 5.8 | 56 |
| 83 | Supercooled liquid sulfur maintained in three-dimensional current collector for high-performance Li-S batteries. <i>Science Advances</i> , 2020 , 6, eaay5098 | 14.3 | 52 |
| 82 | Dual-functional hard template directed one-step formation of a hierarchical porous carbon-carbon nanotube hybrid for lithium-sulfur batteries. <i>Chemical Communications</i> , 2016 , 52, 12143-12146 | 5.8 | 51 |
| 81 | A new approach to detect congestive heart failure using short-term heart rate variability measures. <i>PLoS ONE</i> , 2014 , 9, e93399 | 3.7 | 49 |
| 80 | Seeding lithium seeds towards uniform lithium deposition for stable lithium metal anodes. <i>Nano Energy</i> , 2019 , 61, 47-53 | 17.1 | 48 |
| 79 | Electrode Design with Integration of High Tortuosity and Sulfur-Philicity for High-Performance Lithium-Sulfur Battery. <i>Matter</i> , 2020 , 2, 1605-1620 | 12.7 | 48 |
| 78 | Realizing stable lithium deposition by in situ grown Cu ₂ S nanowires inside commercial Cu foam for lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 727-732 | 13 | 47 |
| 77 | Octahedral Co ₃ O ₄ particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5582-7 | 3.6 | 46 |
| 76 | Efficient Reversible Conversion between MoS and Mo/Na S Enabled by Graphene-Supported Single Atom Catalysts. <i>Advanced Materials</i> , 2021 , 33, e2007090 | 24 | 46 |
| 75 | Visualizing the roles of graphene for excellent lithium storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17808-17814 | 13 | 44 |
| 74 | Core-Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. <i>ACS Central Science</i> , 2018 , 4, 894-898 | 16.8 | 44 |

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|----|--|------|----|
| 73 | Mitigation of Shuttle Effect in Li-S Battery Using a Self-Assembled Ultrathin Molybdenum Disulfide Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3080-3086 | 9.5 | 43 |
| 72 | Stretchable fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019 , 22, 179-184 | 19.4 | 43 |
| 71 | High energy density lithium metal batteries enabled by a porous graphene/MgF ₂ framework. <i>Energy Storage Materials</i> , 2020 , 26, 73-82 | 19.4 | 42 |
| 70 | In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , 2018 , 18, 1130-1138 | 11.5 | 41 |
| 69 | Engineering d-p Orbital Hybridization in Single-Atom Metal-Embedded Three-Dimensional Electrodes for Li-S Batteries. <i>Advanced Materials</i> , 2021 , 33, e2105947 | 24 | 41 |
| 68 | Reactivation of dead sulfide species in lithium polysulfide flow battery for grid scale energy storage. <i>Nature Communications</i> , 2017 , 8, 462 | 17.4 | 38 |
| 67 | Graphene-based integrated electrodes for flexible lithium ion batteries. <i>2D Materials</i> , 2015 , 2, 024004 | 5.9 | 37 |
| 66 | An air-stable and waterproof lithium metal anode enabled by wax composite packaging. <i>Science Bulletin</i> , 2019 , 64, 910-917 | 10.6 | 36 |
| 65 | Electrochemical generation of liquid and solid sulfur on two-dimensional layered materials with distinct areal capacities. <i>Nature Nanotechnology</i> , 2020 , 15, 231-237 | 28.7 | 36 |
| 64 | Air-Stable and Dendrite-Free Lithium Metal Anodes Enabled by a Hybrid Interphase of C ₆₀ and Mg. <i>Advanced Energy Materials</i> , 2020 , 10, 1903292 | 21.8 | 36 |
| 63 | Self-Selective Catalyst Synthesis for CO ₂ Reduction. <i>Joule</i> , 2019 , 3, 1927-1936 | 27.8 | 35 |
| 62 | Status and prospects of porous graphene networks for lithium-sulfur batteries. <i>Materials Horizons</i> , 2020 , 7, 2487-2518 | 14.4 | 33 |
| 61 | Improving a Mg/S Battery with YCl Additive and Magnesium Polysulfide. <i>Advanced Science</i> , 2019 , 6, 1800936 | 19.3 | 33 |
| 60 | Morphology and property investigation of primary particulate matter particles from different sources. <i>Nano Research</i> , 2018 , 11, 3182-3192 | 10 | 33 |
| 59 | Formulating energy density for designing practical lithium-sulfur batteries. <i>Nature Energy</i> , 2022 , 7, 312-319 | 19.3 | 31 |
| 58 | A Nacre-Like Carbon Nanotube Sheet for High Performance Li-Polysulfide Batteries with High Sulfur Loading. <i>Advanced Science</i> , 2018 , 5, 1800384 | 13.6 | 30 |
| 57 | A non-nucleophilic mono-Mg ²⁺ electrolyte for rechargeable Mg/S battery. <i>Energy Storage Materials</i> , 2018 , 14, 253-257 | 19.4 | 30 |
| 56 | Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium-Sulfur Batteries with a High Sulfur Loading. <i>Advanced Functional Materials</i> , 2021 , 31, 2100793 | 15.6 | 27 |

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| 55 | Thermal pyrolysis of Si@ZIF-67 into Si@N-doped CNTs towards highly stable lithium storage. <i>Science Bulletin</i> , 2020 , 65, 452-459 | 10.6 | 26 |
| 54 | A Two-Dimensional MoS Catalysis Transistor by Solid-State Ion Gating Manipulation and Adjustment (SIGMA). <i>Nano Letters</i> , 2019 , 19, 7293-7300 | 11.5 | 24 |
| 53 | Direct electrochemical generation of supercooled sulfur microdroplets well below their melting temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 765-770 | 11.5 | 24 |
| 52 | Graphene-Supported Atomically Dispersed Metals as Bifunctional Catalysts for Next-Generation Batteries Based on Conversion Reactions. <i>Advanced Materials</i> , 2021 , e2105812 | 24 | 23 |
| 51 | Enhanced Cycling Stability of Sulfur Electrodes through Effective Binding of Pyridine-Functionalized Polymer. <i>ACS Energy Letters</i> , 2017 , 2, 2454-2462 | 20.1 | 22 |
| 50 | Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2102128 | 15.6 | 22 |
| 49 | Constructing a Stable Interface Layer by Tailoring Solvation Chemistry in Carbonate Electrolytes for High Performance Lithium Metal Batteries. <i>Advanced Materials</i> , 2021 , e2108400 | 24 | 21 |
| 48 | A Dual-Function Na SO Template Directed Formation of Cathode Materials with a High Content of Sulfur Nanodots for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1700358 | 11 | 20 |
| 47 | Easy fabrication of flexible and multilayer nanocarbon-based cathodes with a high unreal sulfur loading by electrostatic spraying for lithium-sulfur batteries. <i>Carbon</i> , 2018 , 138, 18-25 | 10.4 | 18 |
| 46 | High-Performance Lithium Metal Batteries with a Wide Operating Temperature Range in Carbonate Electrolyte by Manipulating Interfacial Chemistry. <i>ACS Energy Letters</i> , 2021 , 6, 3170-3179 | 20.1 | 18 |
| 45 | Graphene-Based Materials for Flexible Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 , 15, 13901-13923 | 16.7 | 18 |
| 44 | Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021 , 12, 6122 | 17.4 | 17 |
| 43 | Intercalation-Induced Conversion Reactions Give High-Capacity Potassium Storage. <i>ACS Nano</i> , 2020 , 14, 14026-14035 | 16.7 | 17 |
| 42 | Batteries: A Graphene-Pure-Sulfur Sandwich Structure for Ultrafast, Long-Life Lithium-Sulfur Batteries (Adv. Mater. 4/2014). <i>Advanced Materials</i> , 2014 , 26, 664-664 | 24 | 16 |
| 41 | A high-volumetric-capacity bismuth nanosheet/graphene electrode for potassium ion batteries. <i>Science China Materials</i> , 2020 , 63, 1920-1928 | 7.1 | 16 |
| 40 | Unlocking the dissolution mechanism of phosphorus anode for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 37, 417-423 | 19.4 | 16 |
| 39 | A Carbon-Sulfur Hybrid with Pomegranate-like Structure for Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1343-7 | 4.5 | 16 |
| 38 | Direct conversion of degraded LiCoO ₂ cathode materials into high-performance LiCoO ₂ : A closed-loop green recycling strategy for spent lithium-ion batteries. <i>Energy Storage Materials</i> , 2022 , 45, 768-776 | 19.4 | 14 |

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|----|---|------|----|
| 37 | Engineering the Active Sites of Graphene Catalyst: From CO Activation to Activate Li-CO Batteries. <i>ACS Nano</i> , 2021 , 15, 9841-9850 | 16.7 | 14 |
| 36 | Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019 , 29, 1900311 | 15.6 | 13 |
| 35 | Robustness evaluation of heart rate variability measures for age gender related autonomic changes in healthy volunteers. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014 , 37, 567-74 | 1.9 | 13 |
| 34 | Aligned Carbon-Based Electrodes for Fast-Charging Batteries: A Review. <i>Small</i> , 2021 , 17, e2007676 | 11 | 13 |
| 33 | Rational design of functional binder systems for high-energy lithium-based rechargeable batteries. <i>Energy Storage Materials</i> , 2021 , 35, 353-377 | 19.4 | 13 |
| 32 | Designing Electrophilic and Nucleophilic Dual Centers in the ReS Plane toward Efficient Bifunctional Catalysts for Li-CO Batteries.. <i>Journal of the American Chemical Society</i> , 2022 , | 16.4 | 12 |
| 31 | Graphene-Templated Growth of WS ₂ Nanoclusters for Catalytic Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4923-4930 | 6.1 | 11 |
| 30 | A novel battery scheme: Coupling nanostructured phosphorus anodes with lithium sulfide cathodes. <i>Nano Research</i> , 2020 , 13, 1383-1388 | 10 | 10 |
| 29 | Electrotunable liquid sulfur microdroplets. <i>Nature Communications</i> , 2020 , 11, 606 | 17.4 | 10 |
| 28 | High performance and long cycle life neutral zinc-iron flow batteries enabled by zinc-bromide complexation. <i>Energy Storage Materials</i> , 2021 , 44, 433-433 | 19.4 | 10 |
| 27 | Stabilized Solid Electrolyte Interphase Induced by Ultrathin Boron Nitride Membranes for Safe Lithium Metal Batteries. <i>Nano Letters</i> , 2021 , 21, 8447-8454 | 11.5 | 10 |
| 26 | Toward an Understanding of the Reversible Li-CO Batteries over Metal-N-Functionalized Graphene Electrocatalysts.. <i>ACS Nano</i> , 2021 , | 16.7 | 10 |
| 25 | A Principal Component Analysis Based Data Fusion Method for Estimation of Respiratory Volume. <i>IEEE Sensors Journal</i> , 2015 , 15, 4355-4364 | 4 | 9 |
| 24 | 3D Printed Template-Assisted Assembly of Additive-Free TiCT MXene Microlattices with Customized Structures toward High Areal Capacitance.. <i>ACS Nano</i> , 2022 , | 16.7 | 7 |
| 23 | Precise separation of spent lithium-ion cells in water without discharging for recycling. <i>Energy Storage Materials</i> , 2021 , 45, 1092-1092 | 19.4 | 7 |
| 22 | Vertical Graphenes Grown on a Flexible Graphite Paper as an All-Carbon Current Collector towards Stable Li Deposition. <i>Research</i> , 2020 , 2020, 7163948 | 7.8 | 7 |
| 21 | l-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47956-47962 | 9.5 | 7 |
| 20 | Dendrite-Free Lithium Deposition and Stripping Regulated by Aligned Microchannels for Stable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2200682 | 15.6 | 7 |

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| 19 | Regulating Polysulfide Redox Kinetics on a Self-Healing Electrode for High-Performance Flexible Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2110313 | 15.6 | 7 |
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| 16 | Elaboration of Aggregated Polysulfide Phases: From Molecules to Large Clusters and Solid Phases. <i>Nano Letters</i> , 2019 , 19, 7487-7493 | 11.5 | 5 |
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| 12 | A Respiration-Derived Posture Method Based on Dual-Channel Respiration Impedance Signals. <i>IEEE Access</i> , 2017 , 5, 17514-17524 | 3.5 | 4 |
| 11 | Recycling spent LiNiMnCoO cathodes to bifunctional NiMnCo catalysts for zinc-air batteries.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2202202119 ^{11.5} | 11.5 | 4 |
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| 9 | Development and validation of polar RP-HPLC method for screening for ectoine high-yield strains in marine bacteria with green chemistry. <i>Natural Product Research</i> , 2019 , 33, 1122-1126 | 2.3 | 3 |
| 8 | Mo-O-C Between MoS ₂ and Graphene Toward Accelerated Polysulfide Catalytic Conversion for Advanced Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2201579 | 13.6 | 3 |
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