

Zhaoping Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204
papers

7,780
citations

47
h-index

82
g-index

220
ext. papers

9,434
ext. citations

8.4
avg, IF

6.49
L-index

| # | Paper | IF | Citations |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 204 | CO ₂ treatment enables non-hazardous, reliable, and efficacious recovery of spent Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ cathodes. <i>Green Chemistry</i> , 2022 , 24, 779-789 | 10 | 3 |
| 203 | Understanding the steric effect of graphene in graphene wrapped silicon suboxides anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2022 , 522, 231007 | 8.9 | 2 |
| 202 | Controls of oxygen-partial pressure to accelerate the electrochemical activation in Co-free Li-rich layered oxide cathodes. <i>Journal of Power Sources</i> , 2022 , 523, 231022 | 8.9 | 2 |
| 201 | Less is more: tiny amounts of insoluble multi-functional nanoporous additives play a big role in lithium secondary batteries. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 8047-8058 | 13 | 1 |
| 200 | A Lithium-Ion Battery Cathode with Enhanced Wettability toward an Electrolyte Fabricated by a Fast Light Curing of Photoactive Slurry. <i>Energy & Fuels</i> , 2022 , 36, 3313-3318 | 4.1 | 0 |
| 199 | Direct Regeneration of Spent Lithium Iron Phosphate via a Low-Temperature Molten Salt Process Coupled with a Reductive Environment. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 3831-3839 | 3.8 | 4 |
| 198 | MgSiO/Si-Coated Disproportionated SiO Composite Anodes with High Initial Coulombic Efficiency for Lithium Ion Batteries.. <i>ACS Applied Materials & Interfaces</i> , 2022 , | 9.5 | 1 |
| 197 | Seamlessly Integrated Alloy-polymer Interphase for High-rate and Long-life Lithium Metal Anodes. <i>Materials Today Energy</i> , 2022 , 100988 | 7 | |
| 196 | Relating the orientation of graphene on Cu grains by Euler Angles. <i>Surfaces and Interfaces</i> , 2022 , 30, 101837 | 4.1 | |
| 195 | Carbon-coated Monoclinic NbOPO ₄ with Polyanionic Framework for Rechargeable Aqueous Lithium-ion Batteries Beyond 2 V. <i>Electrochimica Acta</i> , 2022 , 140579 | 6.7 | 0 |
| 194 | Stable Electrode/Electrolyte Interface for High-Voltage NCM 523 Cathode Constructed by Synergistic Positive and Passive Approaches. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57107-57117 | 9.5 | 5 |
| 193 | Laser-induced dynamic alignment and nonlinear-like optical transmission in liquid suspensions of 2D atomically thin nanomaterials. <i>Optics Express</i> , 2021 , 29, 36389-36399 | 3.3 | 0 |
| 192 | Si/SiOC/Carbon Lithium-Ion Battery Negative Electrode with Multiple Buffer Media Derived from Cross-Linked Dimethacrylate and Poly (dimethyl siloxane). <i>ChemistrySelect</i> , 2021 , 6, 10348-10354 | 1.8 | |
| 191 | Carbon-emcoating architecture boosts lithium storage of Nb ₂ O ₅ . <i>Science China Materials</i> , 2021 , 64, 10717-10860 | 1.8 | 0 |
| 190 | Continuous fast pyrolysis synthesis of TiO ₂ /C nanohybrid lithium-ion battery anode. <i>Nano Select</i> , 2021 , 2, 1770-1778 | 3.1 | 1 |
| 189 | Sufficient Oxygen Redox Activation against Voltage Decay in Li-Rich Layered Oxide Cathode Materials 2021 , 3, 433-441 | | 6 |
| 188 | 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 | 6.1 | 9 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 187 | Si/Cu/C Nanohybrid Lithium-Ion Battery Anode with in Situ Incorporation of Nonagglomerated Super-Small Copper Nanoparticles Based on Epoxy Resin. <i>Energy & Fuels</i> , 2021 , 35, 6250-6264 | 4.1 | 1 |
| 186 | Sulfur is a New High-Performance Additive toward High-Voltage LiNiCoMnO Cathode: Tiny Amount, Huge Impact. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18648-18657 | 9.5 | 6 |
| 185 | Revealing Anion Adsorption Mechanism for Coating Layer on Separator toward Practical Li Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23584-23591 | 9.5 | 7 |
| 184 | High Li-Ion Conductivity Artificial Interface Enabled by Li-Grafted Graphene Oxide for Stable Li Metal Pouch Cell. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29500-29510 | 9.5 | 0 |
| 183 | Organosilicon-Based Functional Electrolytes for High-Performance Lithium Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101057 | 21.8 | 7 |
| 182 | Conformal Coating of a Carbon Film on 3D Hosts toward Stable Lithium Anodes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7288-7297 | 6.1 | 1 |
| 181 | Nano-channel-based physical and chemical synergic regulation for dendrite-free lithium plating. <i>Nano Research</i> , 2021 , 14, 3585-3597 | 10 | 4 |
| 180 | Graphene wrapped silicon suboxides anodes with suppressed Li-uptake behavior enabled superior cycling stability. <i>Energy Storage Materials</i> , 2021 , 35, 317-326 | 19.4 | 18 |
| 179 | Graphene Modified Polyaniline-Hydrogel Based Stretchable Supercapacitor with High Capacitance and Excellent Stretching Stability. <i>ChemSusChem</i> , 2021 , 14, 938-945 | 8.3 | 14 |
| 178 | High Pressure Effect on Structural and Electrochemical Properties of Anionic Redox-Based Lithium Transition Metal Oxides. <i>Matter</i> , 2021 , 4, 164-181 | 12.7 | 6 |
| 177 | Competitive Solvation-Induced Concurrent Protection on the Anode and Cathode toward a 400 Wh kg ⁻¹ Lithium Metal Battery. <i>ACS Energy Letters</i> , 2021 , 6, 115-123 | 20.1 | 25 |
| 176 | Impact of CO ₂ activation on the structure, composition, and performance of Sb/C nanohybrid lithium/sodium-ion battery anodes. <i>Nanoscale Advances</i> , 2021 , 3, 1942-1953 | 5.1 | 2 |
| 175 | SnO ₂ /Sn/Carbon nanohybrid lithium-ion battery anode with high reversible capacity and excellent cyclic stability. <i>Nano Select</i> , 2021 , 2, 642-653 | 3.1 | 3 |
| 174 | All annealing-free solution-processed highly flexible organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5425-5433 | 13 | 12 |
| 173 | From 0 °C to 150 °C: a lithium secondary battery with a wide temperature window obtained via manipulated competitive decomposition in electrolyte solution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9307-9318 | 13 | 16 |
| 172 | Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. <i>Nano-Micro Letters</i> , 2021 , 13, 44 | 19.5 | 27 |
| 171 | Mutual Performance Enhancement within Dual N-doped TiO ₂ /Si/C Nanohybrid Lithium-Ion Battery Anode. <i>ChemistrySelect</i> , 2021 , 6, 141-153 | 1.8 | 0 |
| 170 | Porous silicon derived from 130 nm Stober silica as lithium-ion battery anode. <i>Nano Select</i> , 2021 , 2, 1554-1565 | 15.5 | 15 |

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| 169 | Super-Small TiO ₂ Nanoparticles Homogeneously Embedded in Mesoporous Carbon Matrix Based on Dental Methacrylates and KOH Activation. <i>ChemistrySelect</i> , 2021 , 6, 1508-1518 | 1.8 | |
| 168 | Surface reinforcement doping to suppress oxygen release of Li-rich layered oxides. <i>Journal of Power Sources</i> , 2021 , 503, 230048 | 8.9 | 1 |
| 167 | Growth of wrinkle-free and ultra-flat Bi-layer graphene on sapphire substrate using Cu sacrificial layer. <i>Nanotechnology</i> , 2021 , 32, | 3.4 | 1 |
| 166 | Ultra-smooth and robust graphene-based hybrid anode for high-performance flexible organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2106-2114 | 7.1 | 2 |
| 165 | A facile method of selective dissolution for preparation of Co ₃ O ₄ /LaCoO ₃ as a bifunctional catalyst for Al/Zn air batteries. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 995-1002 | 5.8 | 2 |
| 164 | Epoxy Resin Enables Facile Scalable Synthesis of CuO/C Nanohybrid Lithium-Ion Battery Anode with Enhanced Electrochemical Performance. <i>ChemistrySelect</i> , 2020 , 5, 5479-5487 | 1.8 | 2 |
| 163 | A Chronicle Review of Nonsilicon (Sn, Sb, Ge)-Based Lithium/Sodium-Ion Battery Alloying Anodes. <i>Small Methods</i> , 2020 , 4, 2000218 | 12.8 | 99 |
| 162 | Ultrasmall Co ₃ O ₄ Nanoparticles Confined in P, N-Doped Carbon Matrices for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9225-9232 | 3.8 | 19 |
| 161 | Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100028-100028 | 6.1 | 23 |
| 160 | Photoacoustic identification of laser-induced microbubbles as light scattering centers for optical limiting in a liquid suspension of graphene nanosheets. <i>Nanoscale</i> , 2020 , 12, 7109-7115 | 7.7 | 7 |
| 159 | Poly(siloxane imide) Binder for Silicon-Based Lithium-Ion Battery Anodes via Rigidity/Softness Coupling. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2674-2680 | 4.5 | 5 |
| 158 | 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 | 14 |
| 157 | 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 | 4 | 10 |
| 156 | Iron Hexacyanoferrate Nanocubes as Low-Strain Cathode Materials for Aqueous Li/Na Mixed-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1318-1323 | 5.6 | 2 |
| 155 | Vacuum-Free, All-Solution, and All-Air Processed Organic Photovoltaics with over 11% Efficiency and Promoted Stability Using Layer-by-Layer Codoped Polymeric Electrodes. <i>Solar Rrl</i> , 2020 , 4, 1900543 | 7.1 | 15 |
| 154 | Large graphene-induced shift of surface-plasmon resonances of gold films: Effective-medium theory for atomically thin materials. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 2 |
| 153 | Improving catalytic activity of layered lithium transition metal oxides for oxygen electrode in metal-air batteries. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1846-1856 | 6.7 | 12 |
| 152 | All graphene electrode for high-performance asymmetric supercapacitor. <i>International Journal of Energy Research</i> , 2020 , 44, 1244-1255 | 4.5 | 10 |

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| 151 | Morphology-controlled MoS by low-temperature atomic layer deposition. <i>Nanoscale</i> , 2020 , 12, 20404-20412 | 4.7 | 6 |
| 150 | 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 & Interfaces</i> , 2020 , 12, 43785-43797 | 9.5 | 10 |
| 149 | Flexible asymmetric microsupercapacitor with high energy density based on all-graphene electrode system. <i>Journal of Materials Science</i> , 2020 , 55, 309-318 | 4.3 | 12 |
| 148 | In Situ Incorporation of Super-Small Metallic High Capacity Nanoparticles and Mesoporous Structures for High-Performance TiO ₂ /SnO ₂ /Sn/Carbon Nanohybrid Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2020 , 8, 2000034 | 3.5 | 3 |
| 147 | Unveiling the Effect of Surface and Bulk Structure on Electrochemical Properties of Disproportionated SiO _x Anodes. <i>ChemNanoMat</i> , 2020 , 6, 1127-1135 | 3.5 | 5 |
| 146 | Confining Al-Li alloys between pre-constructed conductive buffers for advanced aluminum anodes. <i>Chemical Communications</i> , 2019 , 55, 2352-2355 | 5.8 | 4 |
| 145 | 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 | 20.1 | 49 |
| 144 | Niobium carbide/reduced graphene oxide hybrid porous aerogel as high capacity and long-life anode material for Li-ion batteries. <i>International Journal of Energy Research</i> , 2019 , 43, 4995-5003 | 4.5 | 26 |
| 143 | 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 | 4.3 | 18 |
| 142 | Controlling siloxene oxidization to tailor SiO _x anodes for high performance lithium ion batteries. <i>Journal of Power Sources</i> , 2019 , 432, 65-72 | 8.9 | 19 |
| 141 | A Comprehensive Understanding of Lithium Sulfur Battery Technology. <i>Advanced Functional Materials</i> , 2019 , 29, 1901730 | 15.6 | 156 |
| 140 | MnO/Metal/Carbon Nanohybrid Lithium-Ion Battery Anode With Enhanced Electrochemical Performance: Universal Facile Scalable Synthesis and Fundamental Understanding. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900335 | 4.6 | 11 |
| 139 | Reactivating Li O with Nano-Sn to Achieve Ultrahigh Initial Coulombic Efficiency SiO Anodes for Li-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 3377-3382 | 8.3 | 9 |
| 138 | Synergy effects on blending Li-rich and classical layered cathode oxides with improved electrochemical performance. <i>Ceramics International</i> , 2019 , 45, 15097-15107 | 5.1 | 3 |
| 137 | Role of Nickel Nanoparticles in High-Performance TiO ₂ /Ni/Carbon Nanohybrid Lithium/Sodium-Ion Battery Anodes. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1557-1569 | 4.5 | 10 |
| 136 | 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 | 8.9 | 17 |
| 135 | Practically Relevant Research on Silicon-Based Lithium-Ion Battery Anodes 2019 , 261-305 | | 2 |
| 134 | Understanding the Discrepancy of Defect Kinetics on Anionic Redox in Lithium-Rich Cathode Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14023-14034 | 9.5 | 16 |

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| 133 | Attapulgite nanofibers and graphene oxide composite membrane for high-performance molecular separation. <i>Journal of Colloid and Interface Science</i> , 2019 , 545, 276-281 | 9.3 | 19 |
| 132 | Graphene Nanoscrolls with Confined Silicon Nanoparticles as a Durable Anode for Lithium-Ion Batteries. <i>ChemNanoMat</i> , 2019 , 5, 748-753 | 3.5 | 3 |
| 131 | Effect of phase transformation of zirconia on the fracture behavior of electrolyte-supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12118-12126 | 6.7 | 7 |
| 130 | Vapor-assisted synthesis of hierarchical porous graphitic carbon materials towards energy storage devices. <i>Journal of Power Sources</i> , 2019 , 425, 10-16 | 8.9 | 16 |
| 129 | Depressing the irreversible reactions on a three-dimensional interface towards a high-areal capacity lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6267-6274 | 13 | 10 |
| 128 | Abundant nanoscale defects to eliminate voltage decay in Li-rich cathode materials. <i>Energy Storage Materials</i> , 2019 , 16, 220-227 | 19.4 | 91 |
| 127 | Dental Resin Monomer Enables Unique NbO ₂ /Carbon Lithium-Ion Battery Negative Electrode with Exceptional Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1904961 | 15.6 | 18 |
| 126 | Polyethylene Glycol-Na Interface of Vanadium Hexacyanoferrate Cathode for Highly Stable Rechargeable Aqueous Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28762-28788 | 9.5 | 20 |
| 125 | Enhanced Bifunctional Catalytic Activity of Manganese Oxide/Perovskite Hierarchical Core-Shell Materials by Adjusting the Interface for Metal-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25870-25881 | 9.5 | 32 |
| 124 | Facile synthesis of ternary spinel CoMnNi nanorods as efficient bi-functional oxygen catalysts for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2019 , 435, 226761 | 8.9 | 30 |
| 123 | Na Superionic Conductor-Type TiNb(PO) Anode with High Energy Density and Long Cycle Life Enables Aqueous Alkaline-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39757-39764 | 9.5 | 5 |
| 122 | Regulating capillary pressure to achieve ultralow areal mass loading metallic lithium anodes. <i>Energy Storage Materials</i> , 2019 , 23, 693-700 | 19.4 | 14 |
| 121 | Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15206-15226 | 16.4 | 87 |
| 120 | Hybride organisch-anorganische thermoelektrische Materialien und Baueinheiten. <i>Angewandte Chemie</i> , 2019 , 131, 15348-15370 | 3.6 | 7 |
| 119 | Study on the fracture behavior of the planar-type solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 355-362 | 5.7 | 10 |
| 118 | Scalable synthesis of Si nanowires interconnected SiO _x anode for high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 128-135 | 5.7 | 29 |
| 117 | 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 | 8.9 | 57 |
| 116 | Graphene network nested Cu foam for reducing size of lithium metal towards stable metallic lithium anode. <i>Energy Storage Materials</i> , 2019 , 21, 107-114 | 19.4 | 24 |

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| 115 | Ultrafast Heterogeneous Nucleation Enables a Hierarchical Surface Configuration of Lithium-Rich Layered Oxide Cathode Material for Enhanced Electrochemical Performances. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701465 | 4.6 | 11 |
| 114 | New perspective to understand the effect of electrochemical prelithiation behaviors on silicon monoxide.. <i>RSC Advances</i> , 2018 , 8, 14473-14478 | 3.7 | 30 |
| 113 | Lithium Bis(fluorosulfonyl)imide-Lithium Hexafluorophosphate Binary-Salt Electrolytes for Lithium-Ion Batteries: Aluminum Corrosion Behaviors and Electrochemical Properties. <i>ChemistrySelect</i> , 2018 , 3, 1954-1960 | 1.8 | 9 |
| 112 | Cerium ion intercalated MnO ₂ nanospheres with high catalytic activity toward oxygen reduction reaction for aluminum-air batteries. <i>Electrochimica Acta</i> , 2018 , 263, 544-554 | 6.7 | 31 |
| 111 | Microscale Lithium Metal Stored inside Cellular Graphene Scaffold toward Advanced Metallic Lithium Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1703152 | 21.8 | 113 |
| 110 | Identifying the chemical and structural irreversibility in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ a model compound for classical layered intercalation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4189-4198 | 13 | 41 |
| 109 | Revisiting the open-framework zinc hexacyanoferrate: The role of ternary electrolyte and sodium-ion intercalation mechanism. <i>Journal of Power Sources</i> , 2018 , 380, 135-141 | 8.9 | 17 |
| 108 | Surface oxo-functionalized hard carbon spheres enabled superior high-rate capability and long-cycle stability for Li-ion storage. <i>Electrochimica Acta</i> , 2018 , 260, 430-438 | 6.7 | 14 |
| 107 | Localized concentration reversal of lithium during intercalation into nanoparticles. <i>Science Advances</i> , 2018 , 4, eaao2608 | 14.3 | 44 |
| 106 | Scalable in Situ Synthesis of LiTiO/Carbon Nanohybrid with Supersmall LiTiO Nanoparticles Homogeneously Embedded in Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2591-2602 | 9.5 | 35 |
| 105 | 3D Porous MXene (TiC)/Reduced Graphene Oxide Hybrid Films for Advanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3634-3643 | 9.5 | 185 |
| 104 | Si/Ag/C Nanohybrids with in Situ Incorporation of Super-Small Silver Nanoparticles: Tiny Amount, Huge Impact. <i>ACS Nano</i> , 2018 , 12, 861-875 | 16.7 | 49 |
| 103 | Graphene nested porous carbon current collector for lithium metal anode with ultrahigh areal capacity. <i>Energy Storage Materials</i> , 2018 , 15, 266-273 | 19.4 | 52 |
| 102 | Hybrid electrolytes incorporated with dandelion-like silane-Al ₂ O ₃ nanoparticles for high-safety high-voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2018 , 391, 113-119 | 8.9 | 9 |
| 101 | A new family of Mn-based perovskite (La _{1-x} Y _x MnO ₃) with improved oxygen electrocatalytic activity for metal-air batteries. <i>Energy</i> , 2018 , 154, 561-570 | 7.9 | 30 |
| 100 | One-Pot Synthesis of Co O /Ag Nanoparticles Supported on N-Doped Graphene as Efficient Bifunctional Oxygen Catalysts for Flexible Rechargeable Zinc-Air Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 14816-14823 | 4.8 | 33 |
| 99 | Adopting combined strategies to make state of charge (SOC) estimation for practical use. <i>Journal of Renewable and Sustainable Energy</i> , 2018 , 10, 034102 | 2.5 | 3 |
| 98 | 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 | 13 | 109 |

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| 97 | A LiPO ₂ F ₂ /LiFSI dual-salt electrolyte enabled stable cycling of lithium metal batteries. <i>Journal of Power Sources</i> , 2018 , 400, 449-456 | 8.9 | 20 |
| 96 | Graphene Sheets: Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material (Adv. Funct. Mater. 46/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870330 | 15.6 | |
| 95 | A Nano-Architected Metal-Oxide/Perovskite Hybrid Material as Electrocatalyst for the Oxygen Reduction Reaction in Aluminum-Air Batteries. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6824-6833 | 5.6 | 10 |
| 94 | Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. <i>Advanced Functional Materials</i> , 2018 , 28, 1805255 | 15.6 | 20 |
| 93 | Highly Reversible Li Plating Confined in Three-Dimensional Interconnected Microchannels toward High-Rate and Stable Metallic Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20387-20395 | 9.5 | 29 |
| 92 | Establishment of a reliable transfer process for fabricating chemical vapor deposition-grown graphene films with advanced and repeatable electrical properties.. <i>RSC Advances</i> , 2018 , 8, 19846-19851 | 3.7 | 1 |
| 91 | Synthesis of Three-Dimensional Nanoporous Li-Rich Layered Cathode Oxides for High Volumetric and Power Energy Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3661-3666 | 8.5 | 39 |
| 90 | Facile fabrication of nanoporous graphene powder for high-rate lithium-sulfur batteries. <i>RSC Advances</i> , 2017 , 7, 5177-5182 | 3.7 | 12 |
| 89 | Nitrogen-Doped Graphene Nanoscroll Foam with High Diffusion Rate and Binding Affinity for Removal of Organic Pollutants. <i>Small</i> , 2017 , 13, 1603779 | 11 | 29 |
| 88 | 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 | 9.6 | 81 |
| 87 | Enhanced high voltage cyclability of LiCoO ₂ cathode by adopting poly[bis-(ethoxyethoxyethoxy)phosphazene] with flame-retardant property as an electrolyte additive for lithium-ion batteries. <i>Applied Surface Science</i> , 2017 , 403, 260-266 | 6.7 | 35 |
| 86 | La _{0.7} (Sr _{0.3-x} Pdx)MnO ₃ as a highly efficient electrocatalyst for oxygen reduction reaction in aluminum air battery. <i>Electrochimica Acta</i> , 2017 , 230, 418-427 | 6.7 | 24 |
| 85 | La _{1-x} Ag _x MnO ₃ electrocatalyst with high catalytic activity for oxygen reduction reaction in aluminium air batteries. <i>RSC Advances</i> , 2017 , 7, 5214-5221 | 3.7 | 24 |
| 84 | Solvent evaporation induced self-assembly of graphene foam for thermally conductive polymers. <i>RSC Advances</i> , 2017 , 7, 15469-15474 | 3.7 | 11 |
| 83 | Hierarchical porous MnO/graphene composite aerogel as high-performance anode material for lithium ion batteries. <i>RSC Advances</i> , 2017 , 7, 15857-15863 | 3.7 | 18 |
| 82 | Superior Thermally Stable and Nonflammable Porous Polybenzimidazole Membrane with High Wettability for High-Power Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8742-8750 | 8.5 | 60 |
| 81 | 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 | 7.7 | 45 |
| 80 | Large-Sized Few-Layer Graphene Enables an Ultrafast and Long-Life Aluminum-Ion Battery. <i>Advanced Energy Materials</i> , 2017 , 7, 1700034 | 21.8 | 160 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 79 | Structure-preserved 3D porous silicon/reduced graphene oxide materials as anodes for Li-ion batteries. <i>RSC Advances</i> , 2017 , 7, 24305-24311 | 3.7 | 19 |
| 78 | 3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600867 | 4.6 | 5 |
| 77 | Electrocatalytic activity of silver decorated ceria microspheres for the oxygen reduction reaction and their application in aluminium-air batteries. <i>Chemical Communications</i> , 2017 , 53, 7921-7924 | 5.8 | 35 |
| 76 | Improving the cyclability performance of lithium-ion batteries by introducing lithium difluorophosphate (LiPO ₂ F ₂) additive. <i>RSC Advances</i> , 2017 , 7, 26052-26059 | 3.7 | 69 |
| 75 | 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 ¹³ | | 24 |
| 74 | Performances of an Al _{0.15} Bi _{0.15} Pb _{0.035} Ga alloy as an anode for Al-air batteries in neutral and alkaline electrolytes. <i>RSC Advances</i> , 2017 , 7, 25838-25847 | 3.7 | 43 |
| 73 | One-pot synthesis of La _{0.7} Sr _{0.3} MnO ₃ supported on flower-like CeO ₂ as electrocatalyst for oxygen reduction reaction in aluminum-air batteries. <i>Journal of Power Sources</i> , 2017 , 358, 50-60 | 8.9 | 23 |
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