

Zhong-Shuai Wu

List of Publications by Year in descending order

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226
papers

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docs citations

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times ranked

31902
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 2.4 V ultrahigh-voltage aqueous MXene-based asymmetric micro-supercapacitors with high volumetric energy density toward a self-sufficient integrated microsystem. <i>Fundamental Research</i> , 2024, 4, 307-314. | 1.6 | 13 |
| 2 | Assembly of N- and P-functionalized carbon nanostructures derived from precursor-defined ternary copolymers for high-capacity lithium-ion batteries. <i>Chinese Journal of Chemical Engineering</i> , 2023, 53, 280-288. | 1.7 | 2 |
| 3 | Manipulating Horizontal Zn Deposition with Graphene Interpenetrated Zn Hybrid Foils for Dendrite-Free Aqueous Zinc Ion Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, . | 7.3 | 13 |
| 4 | Two-dimensional Boron Nitride for Electronics and Energy Applications. <i>Energy and Environmental Materials</i> , 2022, 5, 10-44. | 7.3 | 11 |
| 5 | AC Line Filter Electrochemical Capacitors: Materials, Morphology, and Configuration. <i>Energy and Environmental Materials</i> , 2022, 5, 1060-1083. | 7.3 | 21 |
| 6 | Phosphorus doping and phosphates coating for nickel molybdate/nickel molybdate hydrate enabling efficient overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 384-392. | 5.0 | 30 |
| 7 | A safe, low-cost and high-efficiency presodiation strategy for pouch-type sodium-ion capacitors with high energy density. <i>Journal of Energy Chemistry</i> , 2022, 64, 442-450. | 7.1 | 24 |
| 8 | Multi-layer Printable Lithium Ion Micro-batteries with Remarkable Areal Energy Density and Flexibility for Wearable Smart Electronics. <i>Small</i> , 2022, 18, e2104506. | 5.2 | 13 |
| 9 | Ultrahigh-rate and high-frequency MXene micro-supercapacitors for kHz AC line-filtering. <i>Journal of Energy Chemistry</i> , 2022, 69, 1-8. | 7.1 | 13 |
| 10 | Graphene-nanoscroll-based Janus bifunctional separators suppress lithium dendrites and polysulfides shuttling synchronously in high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9515-9523. | 5.2 | 15 |
| 11 | Kinetic regulation of MXene with water-in-LiCl electrolyte for high-voltage micro-supercapacitors. <i>National Science Review</i> , 2022, 9, . | 4.6 | 39 |
| 12 | K-functionalized Carbon Quantum Dots-induced Interface Assembly of Carbon Nanocages for Ultrastable Potassium Storage Performance. <i>Small Methods</i> , 2022, 6, e2101627. | 4.6 | 12 |
| 13 | 2D Cu ₂ xSe@graphene multifunctional interlayer boosting polysulfide rapid conversion and uniform Li ₂ S nucleation for high performance Li-S batteries. <i>2D Materials</i> , 2022, 9, 025028. | 2.0 | 2 |
| 14 | 1.6 V high-voltage aqueous symmetric micro-pseudocapacitors based on two-dimensional polypyrrole/graphene nanosheets. <i>Carbon</i> , 2022, 194, 240-247. | 5.4 | 9 |
| 15 | Digital Microscale Electrochemical Energy Storage Devices for a Fully Connected and Intelligent World. <i>ACS Energy Letters</i> , 2022, 7, 267-281. | 8.8 | 31 |
| 16 | Water-in-Salt Ambipolar Redox Electrolyte Extraordinarily Boosting High Pseudocapacitive Performance of Micro-supercapacitors. <i>ACS Energy Letters</i> , 2022, 7, 1706-1711. | 8.8 | 16 |
| 17 | Low-temperature and high-voltage planar micro-supercapacitors based on anti-freezing hybrid gel electrolyte. <i>Journal of Energy Chemistry</i> , 2022, 72, 195-202. | 7.1 | 12 |
| 18 | Hard Carbon Anodes for Sodium-ion Batteries: Recent Status and Challenging Perspectives. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, . | 2.8 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Atomic Fe ²⁺ /N Doped Multi-Cavity Hollow Carbon Nanoreactor as an Efficient Electrocatalyst for Lithium-Sulfur Batteries. Batteries and Supercaps, 2022, 5, . | 2.4 | 7 |
| 20 | 2D Graphene/MnO Heterostructure with Strongly Stable Interface Enabling High-Performance Flexible Solid-State Lithium-Ion Capacitors. Advanced Functional Materials, 2022, 32, . | 7.8 | 50 |
| 21 | Rapid fabrication of high-quality few-layer graphene through gel-phase electrochemical exfoliation of graphite for high-energy-density ionogel-based micro-supercapacitors. Carbon, 2022, 196, 203-212. | 5.4 | 16 |
| 22 | All 3D Printing Shape-Conformable Zinc Ion Hybrid Capacitors with Ultrahigh Areal Capacitance and Improved Cycle Life. Advanced Energy Materials, 2022, 12, . | 10.2 | 18 |
| 23 | Unraveling the Design Principles of Battery-Supercapacitor Hybrid Devices: From Fundamental Mechanisms to Microstructure Engineering and Challenging Perspectives. Advanced Energy Materials, 2022, 12, . | 10.2 | 49 |
| 24 | Recent status and future perspectives of 2D MXene for micro-supercapacitors and micro-batteries. Energy Storage Materials, 2022, 51, 500-526. | 9.5 | 58 |
| 25 | A perspective on graphene for supercapacitors: Current status and future challenges. Journal of Energy Chemistry, 2021, 53, 354-357. | 7.1 | 33 |
| 26 | Recent advances in carbon nanostructures prepared from carbon dioxide for high-performance supercapacitors. Journal of Energy Chemistry, 2021, 54, 352-367. | 7.1 | 97 |
| 27 | Lignin derived hierarchical porous carbon with extremely suppressed polyselenide shuttling for high-capacity and long-cycle-life lithium-selenium batteries. Journal of Energy Chemistry, 2021, 55, 476-483. | 7.1 | 31 |
| 28 | Nitrogen-doped holey graphene nanoscrolls for high-energy and high-power supercapacitors. Chinese Chemical Letters, 2021, 32, 914-917. | 4.8 | 18 |
| 29 | A General Synthetic Strategy toward Highly Doped Pyridinic Nitrogen-Rich Carbons. Advanced Functional Materials, 2021, 31, 2006076. | 7.8 | 35 |
| 30 | Pyridinic nitrogen enriched porous carbon derived from bimetal organic frameworks for high capacity zinc ion hybrid capacitors with remarkable rate capability. Journal of Energy Chemistry, 2021, 56, 404-411. | 7.1 | 60 |
| 31 | Toward high-performance and flexible all-solid-state micro-supercapacitors: MOF bulk vs. MOF nanosheets. Chemical Engineering Journal, 2021, 413, 127520. | 6.6 | 44 |
| 32 | Photopolymerized Gel Electrolyte with Unprecedented Room-Temperature Ionic Conductivity for High-Energy-Density Solid-State Sodium Metal Batteries. Advanced Energy Materials, 2021, 11, 2002930. | 10.2 | 45 |
| 33 | Recent Advances on Carbon-Based Materials for High Performance Lithium-Ion Capacitors. Batteries and Supercaps, 2021, 4, 407-428. | 2.4 | 31 |
| 34 | An intrinsically flexible phase change film for wearable thermal managements. Energy Storage Materials, 2021, 34, 508-514. | 9.5 | 150 |
| 35 | Scalable and fast fabrication of graphene integrated micro-supercapacitors with remarkable volumetric capacitance and flexibility through continuous centrifugal coating. Journal of Energy Chemistry, 2021, 52, 284-290. | 7.1 | 22 |
| 36 | A high-performance rocking-chair lithium-ion battery-supercapacitor hybrid device boosted by doubly matched capacity and kinetics of the faradaic electrodes. Energy and Environmental Science, 2021, 14, 2269-2277. | 15.6 | 63 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Solid-state integrated micro-supercapacitor array construction with low-cost porous biochar. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4772-4779. | 3.2 | 5 |
| 38 | Engineering nanoreactors for metal-chalcogen batteries. <i>Energy and Environmental Science</i> , 2021, 14, 540-575. | 15.6 | 70 |
| 39 | Multitasking MXene Inks Enable High-Performance Printable Microelectrochemical Energy Storage Devices for All-Flexible Self-Powered Integrated Systems. <i>Advanced Materials</i> , 2021, 33, e2005449. | 11.1 | 182 |
| 40 | A three-dimensional polyoxometalate/graphene aerogel as a highly efficient and recyclable absorbent for oil/water separation. <i>New Carbon Materials</i> , 2021, 36, 189-197. | 2.9 | 9 |
| 41 | Electrochemical impedance spectroscopy study of lithium-ion capacitors: Modeling and capacity fading mechanism. <i>Journal of Power Sources</i> , 2021, 488, 229454. | 4.0 | 47 |
| 42 | In Situ and Operando Characterizations of 2D Materials in Electrochemical Energy Storage Devices. <i>Small Science</i> , 2021, 1, 2000076. | 5.8 | 50 |
| 43 | High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System. <i>Advanced Energy Materials</i> , 2021, 11, 2003835. | 10.2 | 53 |
| 44 | Aqueous MXene/PH1000 Hybrid Inks for Inkjet-Printing Micro-Supercapacitors with Unprecedented Volumetric Capacitance and Modular Self-Powered Microelectronics. <i>Advanced Energy Materials</i> , 2021, 11, 2100746. | 10.2 | 85 |
| 45 | In Situ and Operando Characterizations of 2D Materials in Electrochemical Energy Storage Devices. <i>Small Science</i> , 2021, 1, 2170010. | 5.8 | 13 |
| 46 | High-voltage aqueous planar symmetric sodium ion micro-batteries with superior performance at low-temperature of $\sim 40^\circ\text{C}$. <i>Nano Energy</i> , 2021, 82, 105688. | 8.2 | 32 |
| 47 | Interfacial Engineering of Bifunctional Niobium (V)-Based Heterostructure Nanosheet Toward High Efficiency Lean-Electrolyte Lithium-Sulfur Full Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102314. | 7.8 | 93 |
| 48 | Micro-Supercapacitors: High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System (<i>Adv. Energy Mater.</i> 17/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170065. | 10.2 | 0 |
| 49 | Super-aligned films of sub-1 nm Bi ₂ O ₃ -polyoxometalate nanowires as interlayers in lithium-sulfur batteries. <i>Science China Materials</i> , 2021, 64, 2949-2957. | 3.5 | 27 |
| 50 | Oxygen defect enriched (NH ₄) ₂ V ₁₀ O ₂₅ ·8H ₂ O nanosheets for superior aqueous zinc-ion batteries. <i>Nano Energy</i> , 2021, 84, 105876. | 8.2 | 172 |
| 51 | Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101299. | 10.2 | 304 |
| 52 | Micro-Supercapacitors: Aqueous MXene/PH1000 Hybrid Inks for Inkjet-Printing Micro-Supercapacitors with Unprecedented Volumetric Capacitance and Modular Self-Powered Microelectronics (<i>Adv. Energy Mater.</i> 17/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2100746. | 10.2 | 0 |
| 53 | Tetrabutylammonium-Intercalated 1T-MoS ₂ Nanosheets with Expanded Interlayer Spacing Vertically Coupled on 2D Delaminated MXene for High-Performance Lithium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2104286. | 7.8 | 106 |
| 54 | Aqueous high-voltage all 3D-printed micro-supercapacitors with ultrahigh areal capacitance and energy density. <i>Journal of Energy Chemistry</i> , 2021, 63, 514-520. | 7.1 | 25 |

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|----|--|-----|-----------|
| 55 | Nitrogen-enriched graphene framework from a large-scale magnesiothermic conversion of CO ₂ with synergistic kinetics for high-power lithium-ion capacitors. <i>NPG Asia Materials</i> , 2021, 13, . | 3.8 | 29 |
| 56 | Ink formulation, scalable applications and challenging perspectives of screen printing for emerging printed microelectronics. <i>Journal of Energy Chemistry</i> , 2021, 63, 498-513. | 7.1 | 71 |
| 57 | Recent Advances in Interface Engineering and Architecture Design of Air-Stable and Water-Resistant Lithium Metal Anodes. <i>Energy & Fuels</i> , 2021, 35, 12902-12920. | 2.5 | 17 |
| 58 | Ultrarapid synthesis Ni-Cu bifunctional electrocatalyst by self-etching electrodeposition for high-performance water splitting reaction. <i>Applied Surface Science</i> , 2021, 561, 150030. | 3.1 | 23 |
| 59 | Advanced design of cathodes and interlayers for high-performance lithium-selenium batteries. <i>SusMat</i> , 2021, 1, 393-412. | 7.8 | 26 |
| 60 | Room-temperature fast assembly of 3D macroscopically porous graphene frameworks for binder-free compact supercapacitors with high gravimetric and volumetric capacitances. <i>Journal of Energy Chemistry</i> , 2021, 61, 23-28. | 7.1 | 30 |
| 61 | Achieving stable Na metal cycling via polydopamine/multilayer graphene coating of a polypropylene separator. <i>Nature Communications</i> , 2021, 12, 5786. | 5.8 | 69 |
| 62 | Scalable fabrication of in-plane microscale self-powered integrated systems for fast-response and highly selective dual-channel gas detection. <i>Nano Energy</i> , 2021, 88, 106253. | 8.2 | 13 |
| 63 | Tailoring the defects of two-dimensional borocarbonitride nanomesh for high energy density micro-supercapacitor. <i>Energy Storage Materials</i> , 2021, 42, 430-437. | 9.5 | 25 |
| 64 | Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. <i>Energy Storage Materials</i> , 2021, 42, 845-870. | 9.5 | 47 |
| 65 | General synthesis of hollow mesoporous conducting polymers by dual-colloid interface co-assembly for high-energy-density micro-supercapacitors. <i>Journal of Energy Chemistry</i> , 2021, 62, 145-152. | 7.1 | 21 |
| 66 | Strongly coupled tungsten oxide/carbide heterogeneous hybrid for ultrastable aqueous rocking-chair zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 426, 131893. | 6.6 | 38 |
| 67 | Operando surface science methodology reveals surface effect in charge storage electrodes. <i>National Science Review</i> , 2021, 8, nwa289. | 4.6 | 13 |
| 68 | Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, . | 2.2 | 269 |
| 69 | Li ⁺ -MnO ₂ /MWCNTs as an electrocatalyst for rechargeable relatively closed system Li-O ₂ batteries. <i>Chemical Communications</i> , 2021, 57, 11823-11826. | 2.2 | 4 |
| 70 | In Situ Modulation of Site Vacancies in LaMnO _{3.15} Perovskite for Surface Lattice Oxygen Activation and Boosted Redox Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26747-26754. | 7.2 | 85 |
| 71 | Scalable Production of Freestanding Few-Layer \hat{I}^2 -Borophene Single Crystalline Sheets as Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021, 15, 17327-17336. | 7.3 | 40 |
| 72 | Redistributing Zn ion flux by bifunctional graphitic carbon nitride nanosheets for dendrite-free zinc metal anodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27408-27414. | 5.2 | 37 |

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|----|---|------|-----------|
| 73 | Recent advances in micro-supercapacitors for AC line-filtering performance: From fundamental models to emerging applications. <i>EScience</i> , 2021, 1, 124-140. | 25.0 | 57 |
| 74 | Scalable fabrication of printed Zn//MnO ₂ planar micro-batteries with high volumetric energy density and exceptional safety. <i>National Science Review</i> , 2020, 7, 64-72. | 4.6 | 148 |
| 75 | A general bimetal-ion adsorption strategy to prepare nickel single atom catalysts anchored on graphene for efficient oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2020, 43, 52-57. | 7.1 | 85 |
| 76 | Interfacial interaction-induced temperature-dependent mechanical property of graphene-PDMS nanocomposite. <i>Journal of Materials Science</i> , 2020, 55, 1553-1561. | 1.7 | 18 |
| 77 | Graphene encapsulated iron nitrides confined in 3D carbon nanosheet frameworks for high-rate lithium ion batteries. <i>Carbon</i> , 2020, 159, 213-220. | 5.4 | 49 |
| 78 | Recent Advances and Challenges of Two-dimensional Materials for High-energy and High-power Lithium-ion Capacitors. <i>Batteries and Supercaps</i> , 2020, 3, 10-29. | 2.4 | 48 |
| 79 | Substrate-free and Shapeless Planar Micro-supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1908758. | 7.8 | 57 |
| 80 | Rapid synthesis of dielectric tantalum-based oxynitrides. <i>Materials and Design</i> , 2020, 187, 108416. | 3.3 | 7 |
| 81 | Porous Graphene Materials: The Chemistry and Promising Applications of Graphene and Porous Graphene Materials (<i>Adv. Funct. Mater.</i> 41/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070275. | 7.8 | 48 |
| 82 | Lithium-Sulfur Batteries: Dual-Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries (<i>Adv. Tj ETQq0 0 0 rgBT 10w lock4 0 Tf 50 3</i>) | 10.2 | 40 |
| 83 | Three-dimensional nitrogen doped hierarchically porous carbon aerogels with ultrahigh specific surface area for high-performance supercapacitors and flexible micro-supercapacitors. <i>Carbon</i> , 2020, 168, 701-709. | 5.4 | 118 |
| 84 | Micro-supercapacitors powered integrated system for flexible electronics. <i>Energy Storage Materials</i> , 2020, 32, 402-417. | 9.5 | 47 |
| 85 | Unraveling the Nature of Excellent Potassium Storage in Small-Molecule Se@Peapod-Like N-Doped Carbon Nanofibers. <i>Advanced Materials</i> , 2020, 32, e2003879. | 11.1 | 104 |
| 86 | Hybrid Nanostructures: Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070310. | 7.8 | 4 |
| 87 | NH ₃ Sensor Based on 2D Wormlike Polypyrrole/Graphene Heterostructures for a Self-Powered Integrated System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38674-38681. | 4.0 | 38 |
| 88 | Three dimensional Ti ₃ C ₂ MXene nanoribbon frameworks with uniform potassiophilic sites for the dendrite-free potassium metal anodes. <i>Nanoscale Advances</i> , 2020, 2, 4212-4219. | 2.2 | 39 |
| 89 | Zinc based micro-electrochemical energy storage devices: Present status and future perspective. <i>EcoMat</i> , 2020, 2, e12042. | 6.8 | 34 |
| 90 | Recent advances and future perspectives of two-dimensional materials for rechargeable Li-O ₂ batteries. <i>Energy Storage Materials</i> , 2020, 31, 470-491. | 9.5 | 34 |

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|-----|--|------|-----------|
| 91 | 2D intrinsically defective RuO ₂ /Graphene heterostructures as All-pH efficient oxygen evolving electrocatalysts with unprecedented activity. Nano Energy, 2020, 78, 105185. | 8.2 | 58 |
| 92 | Dual-Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002271. | 10.2 | 137 |
| 93 | Sodium Ion Microscale Electrochemical Energy Storage Device: Present Status and Future Perspective. Small Structures, 2020, 1, 2000053. | 6.9 | 47 |
| 94 | Boosting Li-S battery performance by an efficient polysulfide double-blocking strategy. FlatChem, 2020, 24, 100209. | 2.8 | 2 |
| 95 | Sodium Ion Microscale Electrochemical Energy Storage Device: Present Status and Future Perspective. Small Structures, 2020, 1, 2070003. | 6.9 | 3 |
| 96 | Lithium-Sulfur Batteries: Molecular-Level Design of Pyrrhotite Electrocatalyst Decorated Hierarchical Porous Carbon Spheres as Nanoreactors for Lithium-Sulfur Batteries (Adv. Energy) Tj ETQq0 0 0 rgBTf Overlock 10 Tf 50 | | |
| 97 | 3D Flexible, Conductive, and Recyclable Ti ₃ C ₂ T _x MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. ACS Nano, 2020, 14, 8678-8688. | 7.3 | 164 |
| 98 | Layer-by-layer stacked amorphous V ₂ O ₅ /Graphene 2D heterostructures with strong-coupling effect for high-capacity aqueous zinc-ion batteries with ultra-long cycle life. Energy Storage Materials, 2020, 31, 156-163. | 9.5 | 99 |
| 99 | Recent Advancements and Perspective of High-Performance Printed Power Sources with Multiple Form Factors. Electrochemical Energy Reviews, 2020, 3, 581-612. | 13.1 | 26 |
| 100 | MXene for energy storage: present status and future perspectives. JPhys Energy, 2020, 2, 032004. | 2.3 | 69 |
| 101 | Zinc-Ion Batteries: 2D Amorphous V ₂ O ₅ /Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability (Adv.) Tj ETQq1.1 0.784314 rgBTf | | |
| 102 | Sodium Ion Batteries: Toward High Energy Density All Solid-State Sodium Batteries with Excellent Flexibility (Adv. Energy Mater. 12/2020). Advanced Energy Materials, 2020, 10, 2070055. | 10.2 | 2 |
| 103 | The Chemistry and Promising Applications of Graphene and Porous Graphene Materials. Advanced Functional Materials, 2020, 30, 1909035. | 7.8 | 181 |
| 104 | A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. Angewandte Chemie, 2020, 132, 12245-12251. | 1.6 | 21 |
| 105 | A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. Angewandte Chemie - International Edition, 2020, 59, 12147-12153. | 7.2 | 115 |
| 106 | 2D Amorphous V ₂ O ₅ /Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability. Advanced Energy Materials, 2020, 10, 2000081. | 10.2 | 256 |
| 107 | Hierarchical Ordered Dual-Mesoporous Polypyrrole/Graphene Nanosheets as Bi-Functional Active Materials for High-Performance Planar Integrated System of Micro-Supercapacitor and Gas Sensor. Advanced Functional Materials, 2020, 30, 1909756. | 7.8 | 106 |
| 108 | Design and construction of few-layer graphene cathode for ultrafast and high-capacity aluminum-ion batteries. Energy Storage Materials, 2020, 27, 396-404. | 9.5 | 42 |

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|-----|---|------|-----------|
| 109 | Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. <i>Energy and Environmental Science</i> , 2020, 13, 821-829. | 15.6 | 82 |
| 110 | Toward High Energy Density All Solid-State Sodium Batteries with Excellent Flexibility. <i>Advanced Energy Materials</i> , 2020, 10, 1903698. | 10.2 | 111 |
| 111 | High-Valence Nickel Single-Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. <i>Advanced Science</i> , 2020, 7, 1903089. | 5.6 | 182 |
| 112 | Bioinspired footed soft robot with unidirectional all-terrain mobility. <i>Materials Today</i> , 2020, 35, 42-49. | 8.3 | 77 |
| 113 | Functional integrated electromagnetic interference shielding in flexible micro-supercapacitors by cation-intercalation typed Ti ₃ C ₂ T _x MXene. <i>Nano Energy</i> , 2020, 72, 104741. | 8.2 | 62 |
| 114 | Targeted synthesis and reaction mechanism discussion of Mo ₂ C based insertion-type electrodes for advanced pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7819-7827. | 5.2 | 14 |
| 115 | Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000706. | 7.8 | 192 |
| 116 | Molecular-Level Design of Pyrrhotite Electrocatalyst Decorated Hierarchical Porous Carbon Spheres as Nanoreactors for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000651. | 10.2 | 101 |
| 117 | Rational design of MoS ₂ nanosheets decorated on mesoporous hollow carbon spheres as a dual-functional accelerator in sulfur cathode for advanced pouch-type Li-S batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 262-271. | 7.1 | 69 |
| 118 | Single-Atom Cobalt Coordinated to Oxygen Sites on Graphene for Stable Lithium Metal Anodes. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2020, . | 2.2 | 6 |
| 119 | All-Solid-State Planar Sodium-Ion Microcapacitors with Multidirectional Fast Ion Diffusion Pathways. <i>Advanced Science</i> , 2019, 6, 1902147. | 5.6 | 34 |
| 120 | Switchable Adhesion of Micropillar Adhesive on Rough Surfaces. <i>Small</i> , 2019, 15, e1904248. | 5.2 | 83 |
| 121 | The Synergetic Effect of Ni and Fe Bi-metal Single Atom Catalysts on Graphene for Highly Efficient Oxygen Evolution Reaction. <i>Frontiers in Materials</i> , 2019, 6, . | 1.2 | 20 |
| 122 | One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. <i>Advanced Functional Materials</i> , 2019, 29, 1902860. | 7.8 | 104 |
| 123 | The Promise and Challenge of Phosphorus-Based Composites as Anode Materials for Potassium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1901414. | 11.1 | 155 |
| 124 | A perspective on two-dimensional materials for planar micro-supercapacitors. <i>APL Materials</i> , 2019, 7, . | 2.2 | 28 |
| 125 | Preparation and interface modification of Si ₃ N ₄ /SiO ₂ composites. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2767-2771. | 5.6 | 6 |
| 126 | Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. <i>Energy and Environmental Science</i> , 2019, 12, 1534-1541. | 15.6 | 192 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Screen-printing fabrication of high volumetric energy density micro-supercapacitors based on high-resolution thixotropic-ternary hybrid interdigital micro-electrodes. <i>Materials Chemistry Frontiers</i> , 2019, 3, 626-635. | 3.2 | 41 |
| 128 | Two-dimensional materials for advanced Li-S batteries. <i>Energy Storage Materials</i> , 2019, 22, 284-310. | 9.5 | 114 |
| 129 | The Road Towards Planar Microbatteries and Micro-Supercapacitors: From 2D to 3D Device Geometries. <i>Advanced Materials</i> , 2019, 31, e1900583. | 11.1 | 160 |
| 130 | Nitrogen-doped hierarchical porous carbon with ultrathin graphitic framework for superior lithium storage. <i>Applied Surface Science</i> , 2019, 493, 177-184. | 3.1 | 9 |
| 131 | General Interfacial Self-Assembly Engineering for Patterning Two-Dimensional Polymers with Cylindrical Mesopores on Graphene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10173-10178. | 7.2 | 85 |
| 132 | General Interfacial Self-Assembly Engineering for Patterning Two-Dimensional Polymers with Cylindrical Mesopores on Graphene. <i>Angewandte Chemie</i> , 2019, 131, 10279-10284. | 1.6 | 25 |
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