# Wenchao Zhang

List of Publications by Year
in descending order

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| 55 | 5,596 | 147786 | 155644 |
|---|---|---|---|
| papers | citations | 31 h-index | 55 g-index |

| 55 | 55 | 55 | 5575 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Constructing ultrastable electrode/electrolyte interface for rapid potassium ion storage capability via salt chemistry and interfacial engineering. Nano Research, 2022, 15, 2083-2091. | 10.4 | 13 |
| 2 | Recent Progress and Future Advances on Aqueous Monovalentâ€Ion Batteries towards Safe and Highâ€Power Energy Storage. Advanced Materials, 2022, 34, e2107965. | 21.0 | 48 |
| 3 | Minimizing Fe-Bearing Waste Guided by Modulating the Precipitation Pathway: A Novel Magnetite Precipitation Approach for Zinc Hydrometallurgy. ACS ES&T Engineering, 2022, 2, 1611-1618. | 7.6 | 6 |
| 4 | Accelerated Degradation of Microplastics at the Liquid Interface of Ice Crystals in Frozen Aqueous Solutions. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 31 |
| 5 | S-Doped Carbon-Coated FeS2/C@C Nanorods for Potassium Storage. Acta Metallurgica Sinica (English) Tj ETQq1 1 0.784314 rgBT /Ov | 2.9 | 16 |
| 6 | Melamine-assisted synthesis of ultrafine Mo2C/Mo2N@N-doped carbon nanofibers for enhanced alkaline hydrogen evolution reaction activity. Science China Materials, 2021, 64, 1150-1158. | 6.3 | 25 |
| 7 | A CoSeâ€“C@C coreâ€“shell structure with stable potassium storage performance realized by an effective solid electrolyte interphase layer. Journal of Materials Chemistry A, 2021, 9, 11397-11404. | 10.3 | 28 |
| 8 | Promoting sulphur conversion chemistry with tri-modal porous N, O-codoped carbon for stable Liâ€“S batteries. Journal of Materials Chemistry A, 2021, 9, 5497-5506. | 10.3 | 40 |
| 9 | Long-cycling and dendrite-free lithium metal anodes via salt chemistry. Green Energy and Environment, 2021, 6, 791-793. | 8.7 | 7 |
| 10 | Learning from biology: biomimetic carbon cells promote high-power potassium ion batteries. National Science Review, 2021, 8, nwab043. | 9.5 | 4 |
| 11 | Bi-Atom Electrocatalyst for Electrochemical Nitrogen Reduction Reactions. Nano-Micro Letters, 2021, 13, 106. | 27.0 | 10 |
| 12 | Challenges and future perspectives on sodium and potassium ion batteries for grid-scale energy storage. Materials Today, 2021, 50, 400-417. | 14.2 | 161 |
| 13 | An Overlooked Natural Hydrogen Evolution Pathway: Ni<sup>2+</sup> Boosting H<sub>2</sub>O Reduction by Fe(OH)<sub>2</sub> Oxidation during Lowâ€Temperature Serpentinization. Angewandte Chemie, 2021, 133, 24256-24260. | 2.0 | 5 |
| 14 | An Overlooked Natural Hydrogen Evolution Pathway: Ni<sup>2+</sup> Boosting H<sub>2</sub>O Reduction by Fe(OH)<sub>2</sub> Oxidation during Lowâ€Temperature Serpentinization. Angewandte Chemie - International Edition, 2021, 60, 24054-24058. | 13.8 | 25 |
| 15 | Fundamental understanding and practical challenges of lithium-rich oxide cathode materials: Layered and disordered-rocksalt structure. Energy Storage Materials, 2021, 40, 51-71. | 18.0 | 61 |
| 16 | Immobilization of cadmium in contaminated soils using sulfidated nanoscale zero-valent iron: Effectiveness and remediation mechanism. Journal of Hazardous Materials, 2021, 420, 126605. | 12.4 | 44 |
| 17 | Achieving Ultrahigh Anodic Efficiency via Single-Phase Design of Mgâ€“Zn Alloy Anode for Mgâ€“Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58737-58745. | 8.0 | 11 |
| 18 | Necklace-like carbon nanofibers encapsulating V<sub>3</sub>S<sub>4</sub> microspheres for ultrafast and stable potassium-ion storage. Journal of Materials Chemistry A, 2020, 8, 2618-2626. | 10.3 | 87 |

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|---|---|---|---|
| 19 | Highâ€Performance Kâ€“CO<sub>2</sub> Batteries Based on Metalâ€Free Carbon Electrocatalysts. Angewandte Chemie, 2020, 132, 3498-3502. | 2.0 | 8 |
| 20 | Highâ€Performance Kâ€“CO<sub>2</sub> Batteries Based on Metalâ€Free Carbon Electrocatalysts. Angewandte Chemie - International Edition, 2020, 59, 3470-3474. | 13.8 | 66 |
| 21 | An Intrinsically Nonâ€flammable Electrolyte for Highâ€Performance Potassium Batteries. Angewandte Chemie - International Edition, 2020, 59, 3638-3644. | 13.8 | 211 |
| 22 | Coupling Topological Insulator SnSb<sub>2</sub>Te<sub>4</sub> Nanodots with Highly Doped Graphene for Highâ€Rate Energy Storage. Advanced Materials, 2020, 32, e1905632. | 21.0 | 78 |
| 23 | Synergy of binders and electrolytes in enabling microsized alloy anodes for high performance potassium-ion batteries. Nano Energy, 2020, 77, 105118. | 16.0 | 82 |
| 24 | Tuning Interface Bridging Between MoSe2 and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. Nano-Micro Letters, 2020, 12, 171. | 27.0 | 53 |
| 25 | A Long Cycleâ€Life Highâ€Voltage Spinel Lithiumâ€Ion Battery Electrode Achieved by Siteâ€Selective Doping. Angewandte Chemie - International Edition, 2020, 59, 10594-10602. | 13.8 | 144 |
| 26 | A Long Cycleâ€Life Highâ€Voltage Spinel Lithiumâ€Ion Battery Electrode Achieved by Siteâ€Selective Doping. Angewandte Chemie, 2020, 132, 10681-10689. | 2.0 | 20 |
| 27 | Sealed pre-carbonization to regulate the porosity and heteroatom sites of biomass derived carbons for lithium-sulfur batteries. Journal of Colloid and Interface Science, 2020, 579, 667-679. | 9.4 | 24 |
| 28 | Polyaniline/Pure Carbon Assemblies as Efficient Selfâ€standing Metalâ€free Oxygen Electrodes in Alkaline Media for Znâ€Air Batteries. Chemistry - an Asian Journal, 2020, 15, 1544-1548. | 3.3 | 26 |
| 29 | 2020 Roadmap on Carbon Materials for Energy Storage and Conversion. Chemistry - an Asian Journal, 2020, 15, 995-1013. | 3.3 | 154 |
| 30 | Approaching Highâ€Performance Supercapacitors via Enhancing Pseudocapacitive Nickel Oxideâ€Based Materials. Advanced Sustainable Systems, 2020, 4, 1900137. | 5.3 | 49 |
| 31 | Rational Design of Unique ZnO/ZnS@N-C Heterostructures for High-Performance Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2020, 11, 905-912. | 4.6 | 41 |
| 32 | An Intrinsically Nonâ€flammable Electrolyte for Highâ€Performance Potassium Batteries. Angewandte Chemie, 2020, 132, 3667-3673. | 2.0 | 16 |
| 33 | Br doped porous bismuth oxychloride micro-sheets with rich oxygen vacancies and dominating {0â€¯0â€¯1} facets for enhanced nitrogen photo-fixation performances. Journal of Colloid and Interface Science, 2019, 556, 111-119. | 9.4 | 66 |
| 34 | One-Step In Situ Preparation of Polymeric Selenium Sulfide Composite as a Cathode Material for Enhanced Sodium/Potassium Storage. ACS Applied Materials & Interfaces, 2019, 11, 29807-29813. | 8.0 | 36 |
| 35 | Hollow-Carbon-Templated Few-Layered V<sub>5</sub>S<sub>8</sub> Nanosheets Enabling Ultrafast Potassium Storage and Long-Term Cycling. ACS Nano, 2019, 13, 7939-7948. | 14.6 | 136 |
| 36 | Constructing CoO/Co<sub>3</sub>S<sub>4</sub> Heterostructures Embedded in Nâ€doped Carbon Frameworks for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1901925. | 14.9 | 169 |

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|---|---|---|---|
| 37 | Approaching high-performance potassium-ion batteries via advanced design strategies and engineering. Science Advances, 2019, 5, eaav7412. | 10.3 | 790 |
| 38 | In situ incorporation of nanostructured antimony in an N-doped carbon matrix for advanced sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 12842-12850. | 10.3 | 25 |
| 39 | Single-crystal-like ZnO mesoporous spheres derived from metal organic framework delivering high electron mobility for enhanced energy conversion and storage performances. Electrochimica Acta, 2019, 305, 474-483. | 5.2 | 30 |
| 40 | Bi-functional nitrogen-doped carbon protective layer on three-dimensional RGO/SnO2 composites with enhanced electron transport and structural stability for high-performance lithium-ion batteries. Journal of Colloid and Interface Science, 2019, 542, 81-90. | 9.4 | 17 |
| 41 | Hierarchical mesoporous MoSe2@CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. Energy Storage Materials, 2019, 21, 97-106. | 18.0 | 128 |
| 42 | Research progress on vanadium-based cathode materials for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 8815-8838. | 10.3 | 161 |
| 43 | Heterostructure Manipulation via in Situ Localized Phase Transformation for High-Rate and Highly Durable Lithium Ion Storage. ACS Nano, 2018, 12, 10430-10438. | 14.6 | 138 |
| 44 | Unraveling the effect of salt chemistry on long-durability high-phosphorus-concentration anode for potassium ion batteries. Nano Energy, 2018, 53, 967-974. | 16.0 | 151 |
| 45 | Advances in Polar Materials for Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707520. | 14.9 | 268 |
| 46 | Understanding High-Energy-Density Sn4P3 Anodes for Potassium-Ion Batteries. Joule, 2018, 2, 1534-1547. | 24.0 | 468 |
| 47 | Creating fast ion conducting composites via in-situ introduction of titanium as oxygen getter. Nano Energy, 2018, 49, 549-554. | 16.0 | 18 |
| 48 | Phosphorus-Based Alloy Materials for Advanced Potassium-Ion Battery Anode. Journal of the American Chemical Society, 2017, 139, 3316-3319. | 13.7 | 755 |
| 49 | Unique Structural Design and Strategies for Germaniumâ€Based Anode Materials Toward Enhanced Lithium Storage. Advanced Energy Materials, 2017, 7, 1700488. | 19.5 | 103 |
| 50 | Large-scale synthesis of ternary Sn5SbP3/C composite by ball milling for superior stable sodium-ion battery anode. Electrochimica Acta, 2017, 235, 107-113. | 5.2 | 45 |
| 51 | Single ion conducting sodium ion batteries enabled by a sodium ion exchanged poly(bis(4-carbonyl) Tj ETQq1 1 0.784314 rgBT /Overl<br>300, 60-66. | 2.7 | 29 |
| 52 | In Situ Construction of 3D Interconnected FeS@Fe<sub>3</sub>C@Graphitic Carbon Networks for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1703390. | 14.9 | 219 |
| 53 | A Strategy for Configuration of an Integrated Flexible Sulfur Cathode for Highâ€Performance Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2016, 128, 4060-4064. | 2.0 | 19 |
| 54 | A Strategy for Configuration of an Integrated Flexible Sulfur Cathode for Highâ€Performance Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 3992-3996. | 13.8 | 200 |

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|---|---|---|---|
| 55 | Construction of a lithium ion transport network in cathode with lithiated bis(benzene sulfonyl)imide based single ion polymer ionomers. Journal of Power Sources, 2015, 283, 279-288. | 7.8 | 31 |