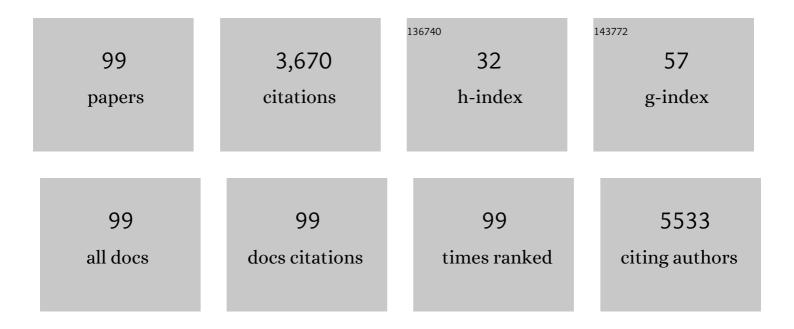
Shichao Zhang

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | <scp>Inâ€situ</scp> growth of ultrathin sulfur <scp>microcrystal</scp> on <scp>MXene</scp> â€based <scp>3D</scp> matrice for flexible lithium–sulfur batteries. EcoMat, 2022, 4, . | 6.8 | 30 |
| 2 | Co3O4 anchored on ionic liquid modified PAN as anode materials for flexible lithium-ion batteries. Journal of Electroanalytical Chemistry, 2022, 908, 116105. | 1.9 | 8 |
| 3 | Monolithic threeâ€dimensional hollow nanoporous <scp>Cu</scp> <i>_x</i> <scp>O</scp> encapsulated mesoporous Cu heterostructures with superior Li storage properties. EcoMat, 2022, 4, . | 6.8 | 10 |
| 4 | 3D S@MoS2@reduced graphene oxide aerogels cathode for high-rate lithium-sulfur batteries. Journal of Alloys and Compounds, 2021, 852, 157011. | 2.8 | 17 |
| 5 | Identical cut-off voltage <i>versus</i> equivalent capacity: an objective evaluation of the impact of dopants in layered oxide cathodes. Journal of Materials Chemistry A, 2021, 9, 11219-11227. | 5.2 | 12 |
| 6 | Facile One-Step Solution-Phase Route to Synthesize Hollow Nanoporous Cu _{<i>x</i>} O Microcages on 3D Copper Foam for Superior Li Storage. ACS Sustainable Chemistry and Engineering, 2021, 9, 4363-4370. | 3.2 | 10 |
| 7 | Improved Electrocatalytic Activity of Three-Dimensional Open-Structured Co ₃ O ₄ @MnO ₂ Bifunctional Catalysts of Li-O ₂ Batteries by Inducing the Oriented Growth of Li ₂ O ₂ . ACS Sustainable Chemistry and Engineering, 2021, 9, 5334-5344. | 3.2 | 15 |
| 8 | A Flexible Li–Air Battery Workable under Harsh Conditions Based on an Integrated Structure: A Composite Lithium Anode Encased in a Gel Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 18627-18637. | 4.0 | 14 |
| 9 | In Situ Synthesis of the Peapodâ€Like Cu–SnO ₂ @Copper Foam as Anode with Excellent Cycle Stability and High Area Specific Capacity. Advanced Functional Materials, 2021, 31, 2101999. | 7.8 | 22 |
| 10 | In Situ Synthesis of the Peapod‣ike Cu–SnO ₂ @Copper Foam as Anode with Excellent Cycle Stability and High Area Specific Capacity (Adv. Funct. Mater. 33/2021). Advanced Functional Materials, 2021, 31, 2170240. | 7.8 | 5 |
| 11 | Graphene-Based Materials for Flexible Lithium–Sulfur Batteries. ACS Nano, 2021, 15, 13901-13923. | 7.3 | 94 |
| 12 | 3D Si@Cu-Ni nano-pillars array composite as carbon/binder free anode for lithium ion battery. Journal of Materials Research and Technology, 2020, 9, 1549-1558. | 2.6 | 5 |
| 13 | ZnO quantum dot-modified rGO with enhanced electrochemical performance for lithium–sulfur batteries. RSC Advances, 2020, 10, 32966-32975. | 1.7 | 13 |
| 14 | Facile One-Step Preparation of 3D Nanoporous Cu/Cu6Sn5 Microparticles as Anode Material for Lithium-Ion Batteries with Superior Lithium Storage Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5965-5973. | 1.1 | 4 |
| 15 | Serial Disulfide Polymers as Cathode Materials in Lithium-Sulfur Battery: Materials Optimization and Electrochemical Characterization. Applied Sciences (Switzerland), 2020, 10, 2538. | 1.3 | 2 |
| 16 | Facile In-Situ Synthesis of Freestanding 3D Nanoporous Cu@Cu2O Hierarchical Nanoplate Arrays as Binder-Free Integrated Anodes for High-Capacity, Long-Life Li-Ion Batteries. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2536-2548. | 1.1 | 8 |
| 17 | Investigating the increased-capacity mechanism of porous carbon materials in lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 14031-14042. | 5.2 | 18 |
| 18 | A Novel Sulfurâ€Based Terpolymer Cathode Material for Lithium–Sulfur Battery. Energy Technology, 2020, 8, 2000057. | 1.8 | 3 |

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|----|---|-----|-----------|
| 19 | Structure-designed synthesis of 3D MoS ₂ anchored on ionic liquid modified rGO–CNTs inspired by a honeycomb for excellent lithium storage. Journal of Materials Chemistry A, 2020, 8, 4868-4876. | 5.2 | 14 |
| 20 | Lychee-like TiO ₂ @TiN dual-function composite material for lithium–sulfur batteries. RSC Advances, 2020, 10, 2670-2676. | 1.7 | 11 |
| 21 | Synthesis of polyaniline-sulfur composites with different nanostructures <i>via</i> an interfacial emulsification method and a micelle template method and their properties. RSC Advances, 2020, 10, 11455-11462. | 1.7 | 18 |
| 22 | Rechargeable Na–SO 2 Battery with Ethylenediamine Additive in Etherâ€Based Electrolyte. Advanced Functional Materials, 2020, 30, 2002120. | 7.8 | 15 |
| 23 | Improving cycling stability and suppressing voltage fade of layered lithium-rich cathode materials via SiO2 shell coating. Ionics, 2019, 25, 1979-1990. | 1.2 | 11 |
| 24 | Polydopamine-coated hierarchical tower-shaped carbon for high-performance lithium-sulfur batteries. Electrochimica Acta, 2019, 319, 359-365. | 2.6 | 31 |
| 25 | Sea urchin-like Co3O4@Pd Nanoneedles with 3D open-structured matrix as efficient catalytic cathode for Li-O2 batteries. Solid State Ionics, 2019, 343, 115075. | 1.3 | 12 |
| 26 | Application of nano Al2O3 particles as precipitate nucleus for preparation of high rate nickel-rich cathode materials. Journal of Power Sources, 2019, 439, 227038. | 4.0 | 15 |
| 27 | Fe ₃ O ₄ hard templating to assemble highly wrinkled graphene sheets into hierarchical porous film for compact capacitive energy storage. RSC Advances, 2019, 9, 20107-20112. | 1.7 | 36 |
| 28 | Freestanding 3D nanoporous Cu@1D Cu ₂ O nanowire heterostructures: from a facile one-step protocol to robust application in Li storage. Journal of Materials Chemistry A, 2019, 7, 15089-15100. | 5.2 | 19 |
| 29 | Morphology and size controlled synthesis of the hierarchical structured Li1.2Mn0.54Ni0.13Co0.13O2 cathode materials for lithium ion batteries. Electrochimica Acta, 2019, 297, 406-416. | 2.6 | 38 |
| 30 | Temperature-induced surface reconstruction and interface structure evolution on ligament of nanoporous copper. Scientific Reports, 2018, 8, 447. | 1.6 | 9 |
| 31 | N-doped hollow urchin-like anatase TiO 2 @C composite as a novel anode for Li-ion batteries. Journal of Power Sources, 2018, 385, 10-17. | 4.0 | 110 |
| 32 | Self-assembled hierarchical porous NiMn2O4 microspheres as high performance Li-ion battery anodes. RSC Advances, 2018, 8, 41749-41755. | 1.7 | 18 |
| 33 | Rational design of a 3D MoS ₂ /dual-channel graphene framework hybrid as a free-standing electrode for enhanced lithium storage. Journal of Materials Chemistry A, 2018, 6, 13797-13805. | 5.2 | 23 |
| 34 | Facile Fabrication of Fe ₂ O ₃ Nanoparticles Anchored on Carbon Nanotubes as Highâ€Performance Anode for Lithiumâ€ion Batteries. ChemElectroChem, 2018, 5, 2458-2463. | 1.7 | 35 |
| 35 | Self-standing Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ /graphene membrane as a binder-free cathode for Li-ion batteries. RSC Advances, 2018, 8, 39769-39776. | 1.7 | 6 |
| 36 | Graphene-like δ-MnO ₂ decorated with ultrafine CeO ₂ as a highly efficient catalyst for long-life lithium–oxygen batteries. Journal of Materials Chemistry A, 2017, 5, 6747-6755. | 5.2 | 51 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Mesoporous Pd/Co 3 O 4 nanosheets nanoarrays as an efficient binder/carbon free cathode for rechargeable Li-O 2 batteries. Applied Surface Science, 2017, 420, 222-232. | 3.1 | 24 |
| 38 | Hierarchical porous ZnMn ₂ O ₄ microspheres assembled by nanosheets for high performance anodes of lithium ion batteries. Inorganic Chemistry Frontiers, 2017, 4, 1730-1736. | 3.0 | 26 |
| 39 | Resonant tunneling though an asymmetrical two-magnetic-barrier structure on single layer graphene. Optical and Quantum Electronics, 2017, 49, 1. | 1.5 | 5 |
| 40 | Synthesis and properties of mesoporous Zn-doped Li _{1.2} Mn _{0.54} Co _{0.13} Ni _{0.13} O ₂ as cathode materials by a MOFs-assisted solvothermal method. RSC Advances, 2017, 7, 35055-35059. | 1.7 | 14 |
| 41 | Ni ₃ S ₂ nanosheet-anchored carbon submicron tube arrays as high-performance binder-free anodes for Na-ion batteries. Inorganic Chemistry Frontiers, 2017, 4, 131-138. | 3.0 | 22 |
| 42 | A facile one-pot dealloying strategy to synthesize monolithic asymmetry-patterned nanoporous copper ribbons with tunable microstructure and nanoporosity. RSC Advances, 2016, 6, 2662-2670. | 1.7 | 14 |
| 43 | Sustainable carbon-sheets and their MnO–C hybrid for Li-ion batteries. RSC Advances, 2016, 6, 79066-79071. | 1.7 | 7 |
| 44 | MOF-derived, N-doped porous carbon coated graphene sheets as high-performance anodes for lithium-ion batteries. New Journal of Chemistry, 2016, 40, 9679-9683. | 1.4 | 33 |
| 45 | Glucose-assisted combustion synthesis of Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ cathode materials with superior electrochemical performance for lithium-ion batteries. RSC Advances, 2016, 6, 79050-79057. | 1.7 | 17 |
| 46 | Auâ€Decorated Cracked Carbon Tube Arrays as Binderâ€Free Catalytic Cathode Enabling Guided Li ₂ O ₂ Inner Growth for Highâ€Performance Liâ€O ₂ Batteries. Advanced Functional Materials, 2016, 26, 7725-7732. | 7.8 | 45 |
| 47 | Ru-decorated knitted Co ₃ O ₄ nanowires as a robust carbon/binder-free catalytic cathode for lithium–oxygen batteries. New Journal of Chemistry, 2016, 40, 6812-6818. | 1.4 | 20 |
| 48 | Scalable preparation of silicon@graphite/carbon microspheres as high-performance lithium-ion battery anode materials. RSC Advances, 2016, 6, 69882-69888. | 1.7 | 32 |
| 49 | Controlled Growth of Li ₂ O ₂ by Cocatalysis of Mobile Pd and Co ₃ O ₄ Nanowire Arrays for High-Performance Li–O ₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 31653-31660. | 4.0 | 26 |
| 50 | A facile one-pot oxidation-assisted dealloying protocol to massively synthesize monolithic core-shell architectured nanoporous copper@cuprous oxide nanonetworks for photodegradation of methyl orange. Scientific Reports, 2016, 6, 36084. | 1.6 | 14 |
| 51 | Fabrication of rutile TiO ₂ nanorod arrays on a copper substrate for high-performance lithium-ion batteries. RSC Advances, 2016, 6, 55671-55675. | 1.7 | 11 |
| 52 | ZnO nanoparticles encapsulated in a 3D hierarchical carbon framework as anode for lithium ion battery. Electrochimica Acta, 2016, 189, 245-251. | 2.6 | 60 |
| 53 | Cu@Sn nanostructures based on light-weight current collectors for superior reversible lithium ion storage. RSC Advances, 2016, 6, 20042-20050. | 1.7 | 6 |
| 54 | Facile shape control of nano-coaxial Co ₃ O ₄ /TiO ₂ arrays and the effect of the microstructure on lithium storage capability. New Journal of Chemistry, 2016, 40, 3536-3542. | 1.4 | 8 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | High nitrogen-containing cotton derived 3D porous carbon frameworks for high-performance supercapacitors. Scientific Reports, 2015, 5, 15388. | 1.6 | 44 |
| 56 | Mushroom-like Au/NiCo ₂ O ₄ nanohybrids as high-performance binder-free catalytic cathodes for lithium–oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 5714-5721. | 5.2 | 48 |
| 57 | Carbon nanofibers/nanosheets hybrid derived from cornstalks as a sustainable anode for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 6742-6746. | 5.2 | 79 |
| 58 | Formation of a stable carbon framework in a MnO yolk–shell sphere to achieve exceptional performance for a Li-ion battery anode. Journal of Materials Chemistry A, 2015, 3, 15591-15597. | 5.2 | 48 |
| 59 | Hollow carbon-shell/carbon-nanorod arrays for high performance Li-ion batteries and supercapacitors. RSC Advances, 2015, 5, 7959-7963. | 1.7 | 17 |
| 60 | Facile solvothermal synthesis of ultrathin LiFe _x Mn _{1â^²x} PO ₄ nanoplates as advanced cathodes with long cycle life and superior rate capability. Journal of Materials Chemistry A, 2015, 3, 19368-19375. | 5.2 | 35 |
| 61 | Copper nanowires based current collector for light-weight and flexible composite silicon anode with high stability and specific capacity. RSC Advances, 2015, 5, 87090-87097. | 1.7 | 13 |
| 62 | Understanding Moisture and Carbon Dioxide Involved Interfacial Reactions on Electrochemical Performance of Lithium–Air Batteries Catalyzed by Gold/Manganese-Dioxide. ACS Applied Materials & Interfaces, 2015, 7, 23876-23884. | 4.0 | 42 |
| 63 | Synthesis, structure and electrochemical properties of lithium-rich cathode material Li1.2Mn0.6Ni0.2O2 microspheres. RSC Advances, 2015, 5, 81565-81572. | 1.7 | 22 |
| 64 | Nanoporous copper from dual-phase alloy families and its technology application in lithium ion batteries. Corrosion Reviews, 2015, 33, 203-231. | 1.0 | 11 |
| 65 | Hierarchical CuO–TiO ₂ Hollow Microspheres for Highly Efficient Photodriven Reduction of CO ₂ to CH ₄ . ACS Sustainable Chemistry and Engineering, 2015, 3, 2381-2388. | 3.2 | 179 |
| 66 | Facile synthesis of nanostructured LiMnPO ₄ as a high-performance cathode material with long cycle life and superior rate capability. RSC Advances, 2015, 5, 99632-99639. | 1.7 | 8 |
| 67 | Tips-Bundled Pt/Co ₃ O ₄ Nanowires with Directed Peripheral Growth of Li ₂ O ₂ as Efficient Binder/Carbon-Free Catalytic Cathode for Lithium–Oxygen Battery. ACS Catalysis, 2015, 5, 241-245. | 5.5 | 69 |
| 68 | Few‣ayered SnS ₂ on Few‣ayered Reduced Graphene Oxide as Naâ€Ion Battery Anode with Ultralong Cycle Life and Superior Rate Capability. Advanced Functional Materials, 2015, 25, 481-489. | 7.8 | 391 |
| 69 | Application of Carbon Supported Pt _{core} –Au _{shell} Nanoparticles in Methanol Electrooxidation. Journal of Physical Chemistry C, 2014, 118, 29845-29853. | 1.5 | 30 |
| 70 | Investigation of Co3O4 nanorods supported Pd anode catalyst for methanol oxidation in alkaline solution. Journal of Energy Chemistry, 2014, 23, 801-808. | 7.1 | 9 |
| 71 | Direct Growth of Flowerâ€Like δâ€MnO ₂ on Threeâ€Dimensional Graphene for Highâ€Performance Rechargeable Liâ€O ₂ Batteries. Advanced Energy Materials, 2014, 4, 1301960. | 10.2 | 154 |
| 72 | Facile synthesis of hierarchical mesoporous CuxCo3-xO4 nanosheets array on conductive substrates with high-rate performance for Li-ion batteries. Electrochimica Acta, 2014, 150, 75-82. | 2.6 | 37 |

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|----|--|-----|-----------|
| 73 | One-pot synthesis of ultrafine ZnFe2O4 nanocrystals anchored on graphene for high-performance Li and Li-ion batteries. RSC Advances, 2014, 4, 7703. | 1.7 | 41 |
| 74 | Hollow nano silicon prepared by a controlled template direction and magnesiothermic reduction reaction as anode for lithium ion batteries. New Journal of Chemistry, 2014, 38, 4177. | 1.4 | 9 |
| 75 | Synthesis of Cu@Fe3O4 nanowire arrays electrode for Li-ion batteries. RSC Advances, 2014, 4, 50752-50758. | 1.7 | 9 |
| 76 | Peanut-like MnO@C core–shell composites as anode electrodes for high-performance lithium ion batteries. Nanoscale, 2014, 6, 3508. | 2.8 | 103 |
| 77 | From graphite oxide to nitrogen and sulfur co-doped few-layered graphene by a green reduction route via Chinese medicinal herbs. RSC Advances, 2014, 4, 17902. | 1.7 | 28 |
| 78 | Nitrogen-doped reduced graphene oxide for high-performance flexible all-solid-state micro-supercapacitors. Journal of Materials Chemistry A, 2014, 2, 18125-18131. | 5.2 | 158 |
| 79 | Controllable synthesis of high-performance LiMnPO ₄ nanocrystals by a facile one-spot solvothermal process. Journal of Materials Chemistry A, 2014, 2, 10581-10588. | 5.2 | 58 |
| 80 | Ordered LiMPO4 (M = Fe, Mn) nanorods synthesized from NH4MPO4·H2O microplates by stress involved ion exchange for Li-ion batteries. CrystEngComm, 2014, 16, 2239. | 1.3 | 13 |
| 81 | MnO Nanoparticles Interdispersed in 3D Porous Carbon Framework for High Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 12713-12718. | 4.0 | 76 |
| 82 | Spin filtering magnetic modulation and spin-polarization switching in hybrid ferromagnet/semiconductor structures. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1057-1062. | 2.0 | 2 |
| 83 | Simple Synthesis of Mesoporous Carbon Nanofibers with Hierarchical Nanostructure for Ultrahigh Lithium Storage. ACS Applied Materials & Interfaces, 2014, 6, 2561-2567. | 4.0 | 76 |
| 84 | Hollow spherical carbonized polypyrrole/sulfur composite cathode materials for lithium/sulfur cells with long cycle life. Journal of Power Sources, 2014, 248, 337-342. | 4.0 | 44 |
| 85 | Designed Electrochemical and Wet-chemical Fabrication of Cu/Cu2O@TiO2 Hybrid Nanowire Arrays for Li-ion Microbattery. Chemistry Letters, 2014, 43, 1625-1627. | 0.7 | 2 |
| 86 | Hierarchical Co3O4@multiwalled carbon nanotube nanocable films with superior cyclability and high lithium storage capacity. Electrochimica Acta, 2013, 108, 651-659. | 2.6 | 32 |
| 87 | Controllable synthesis of hollow α-Fe2O3 nanostructures, their growth mechanism, and the morphology-reserved conversion to magnetic Fe3O4/C nanocomposites. RSC Advances, 2013, 3, 19097. | 1.7 | 14 |
| 88 | Reduced graphene oxide induced confined growth of PbTe crystals and enhanced electrochemical Li-storage properties. RSC Advances, 2013, 3, 23612. | 1.7 | 12 |
| 89 | Coaxial SnO2@TiO2 nanotube hybrids: from robust assembly strategies to potential application in Li+ storage. Journal of Materials Chemistry, 2012, 22, 11151. | 6.7 | 66 |
| 90 | Vertically Cobalt Nanoplate Arrays Based on One-Step Electrochemical Growth and Their Magnetic Properties. Journal of Physical Chemistry C, 2012, 116, 2801-2806. | 1.5 | 21 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 91 | Facile fabrication of reticular polypyrrole–silicon core–shell nanofibers for high performance lithium storage. Journal of Materials Chemistry, 2012, 22, 11636. | 6.7 | 55 |
| 92 | Investigation of immiscible Sn–Zn coatings with two-layer microstructure as anode material for Li-ion battery. Journal of Applied Electrochemistry, 2012, 42, 477-482. | 1.5 | 8 |
| 93 | Preparation and characterization of nanoporous Cu6Sn5/Cu composite by chemical dealloying of Al–Cu–Sn ternary alloy. Journal of Materials Science, 2012, 47, 5911-5917. | 1.7 | 8 |
| 94 | Enhanced Electrochemical Performance of Sn–Co Nanoarchitectured Electrode for Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 23603-23609. | 1.5 | 49 |
| 95 | Influence of alloy composition on nanoporous structure by dealloying Mn-Cu ribbons. Rare Metals, 2011, 30, 370-374. | 3.6 | 5 |
| 96 | Electrochemical growth of dispersing nickel oxide nanoparticles on carbon nanotubes. Rare Metals, 2011, 30, 661-665. | 3.6 | 5 |
| 97 | Nickel Nanoconeâ€Array Supported Silicon Anode for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2010, 22, 5378-5382. | 11.1 | 161 |
| 98 | Nano-wire networks of sulfur–polypyrrole composite cathode materials for rechargeable lithium batteries. Electrochemistry Communications, 2008, 10, 1819-1822. | 2.3 | 217 |
| 99 | Structure-design and theoretical-calculation for ultrasmall Co3O4 anchored into ionic liquid modified graphene as anode of flexible lithium-ion batteries. Nano Research, 0, , 1. | 5.8 | 16 |