# Zhongwei Chen

List of Publications by Year
in descending order

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| 453 | 51,064 | 944 115 | 2071 204 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 488 | 488 | 488 | 34610 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 30 Years of Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1800561. | 11.1 | 3,039 |
| 2 | Batteries and fuel cells for emerging electric vehicle markets. Nature Energy, 2018, 3, 279-289. | 19.8 | 1,944 |
| 3 | A review on non-precious metal electrocatalysts for PEM fuel cells. Energy and Environmental Science, 2011, 4, 3167. | 15.6 | 1,651 |
| 4 | Electrically Rechargeable Zincâ€“Air Batteries: Progress, Challenges, and Perspectives. Advanced Materials, 2017, 29, 1604685. | 11.1 | 1,143 |
| 5 | A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. Energy and Environmental Science, 2014, 7, 1564. | 15.6 | 996 |
| 6 | Supportless Pt and PtPd Nanotubes as Electrocatalysts for Oxygen-Reduction Reactions. Angewandte Chemie - International Edition, 2007, 46, 4060-4063. | 7.2 | 780 |
| 7 | Automotive Li-Ion Batteries: Current Status and Future Perspectives. Electrochemical Energy Reviews, 2019, 2, 1-28. | 13.1 | 745 |
| 8 | Siliconâ€Based Anodes for Lithiumâ€Ion Batteries: From Fundamentals to Practical Applications. Small, 2018, 14, 1702737. | 5.2 | 650 |
| 9 | Durability investigation of carbon nanotube as catalyst support for proton exchange membrane fuel cell. Journal of Power Sources, 2006, 158, 154-159. | 4.0 | 570 |
| 10 | New Concepts in Electrolytes. Chemical Reviews, 2020, 120, 6783-6819. | 23.0 | 554 |
| 11 | A Soluble and Highly Conductive Ionomer for Highâ€Performance Hydroxide Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2009, 48, 6499-6502. | 7.2 | 541 |
| 12 | High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. Electrochemical Energy Reviews, 2018, 1, 35-53. | 13.1 | 514 |
| 13 | One-pot synthesis of a mesoporous NiCo2O4 nanoplatelet and graphene hybrid and its oxygen reduction and evolution activities as an efficient bi-functional electrocatalyst. Journal of Materials Chemistry A, 2013, 1, 4754. | 5.2 | 491 |
| 14 | A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. Chemical Society Reviews, 2020, 49, 8790-8839. | 18.7 | 461 |
| 15 | The application of graphene and its composites in oxygen reduction electrocatalysis: a perspective and review of recent progress. Energy and Environmental Science, 2016, 9, 357-390. | 15.6 | 456 |
| 16 | Revisiting the Role of Polysulfides in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2018, 30, e1705590. | 11.1 | 456 |
| 17 | Functionalized Graphene Oxide Nanocomposite Membrane for Low Humidity and High Temperature Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 20774-20781. | 1.5 | 410 |
| 18 | Recent progress and perspectives on bi-functional oxygen electrocatalysts for advanced rechargeable metalâ€“air batteries. Journal of Materials Chemistry A, 2016, 4, 7107-7134. | 5.2 | 408 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Interlayer Material Selection for Lithium-Sulfur Batteries. Joule, 2019, 3, 361-386. | 11.7 | 406 |
| 20 | Recent Progress in Electrically Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2019, 31, e1805230. | 11.1 | 398 |
| 21 | Highly Active and Durable Coreâ€“Corona Structured Bifunctional Catalyst for Rechargeable Metalâ€“Air Battery Application. Nano Letters, 2012, 12, 1946-1952. | 4.5 | 392 |
| 22 | Highly Active Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction in Fuel Cell Applications. Journal of Physical Chemistry C, 2009, 113, 21008-21013. | 1.5 | 350 |
| 23 | Nitrogen doped carbon nanotubes and their impact on the oxygen reduction reaction in fuel cells. Carbon, 2010, 48, 3057-3065. | 5.4 | 347 |
| 24 | Ultrathin, transparent, and flexible graphene films for supercapacitor application. Applied Physics Letters, 2010, 96, . | 1.5 | 347 |
| 25 | Multifunctional TiO<sub>2</sub>â€“C/MnO<sub>2</sub> Coreâ€“Double-Shell Nanowire Arrays as High-Performance 3D Electrodes for Lithium Ion Batteries. Nano Letters, 2013, 13, 5467-5473. | 4.5 | 338 |
| 26 | Structural and chemical synergistic encapsulation of polysulfides enables ultralong-life lithiumâ€“sulfur batteries. Energy and Environmental Science, 2016, 9, 2533-2538. | 15.6 | 330 |
| 27 | A Singleâ€Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 9640-9645. | 7.2 | 312 |
| 28 | Recycling of mixed cathode lithiumâ€ion batteries for electric vehicles: Current status and future outlook. , 2020, 2, 6-43. | | 300 |
| 29 | Recent Advances in Flexible Zincâ€Based Rechargeable Batteries. Advanced Energy Materials, 2019, 9, 1802605. | 10.2 | 296 |
| 30 | Engineering Energy Level of Metal Center: Ru Single-Atom Site for Efficient and Durable Oxygen Reduction Catalysis. Journal of the American Chemical Society, 2019, 141, 19800-19806. | 6.6 | 288 |
| 31 | Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. Nature Reviews Materials, 2020, 5, 276-294. | 23.3 | 284 |
| 32 | Nafion/Zeolite Nanocomposite Membrane by in Situ Crystallization for a Direct Methanol Fuel Cell. Chemistry of Materials, 2006, 18, 5669-5675. | 3.2 | 276 |
| 33 | A flexible solid-state electrolyte for wide-scale integration of rechargeable zincâ€“air batteries. Energy and Environmental Science, 2016, 9, 663-670. | 15.6 | 275 |
| 34 | Free-Standing Layer-By-Layer Hybrid Thin Film of Graphene-MnO<sub>2</sub> Nanotube as Anode for Lithium Ion Batteries. Journal of Physical Chemistry Letters, 2011, 2, 1855-1860. | 2.1 | 271 |
| 35 | The Current State of Aqueous Zn-Based Rechargeable Batteries. ACS Energy Letters, 2020, 5, 1665-1675. | 8.8 | 271 |
| 36 | Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. Chemical Society Reviews, 2020, 49, 5407-5445. | 18.7 | 264 |

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|---|---|---|---|
| 37 | Biologically Inspired Highly Durable Iron Phthalocyanine Catalysts for Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells. Journal of the American Chemical Society, 2010, 132, 17056-17058. | 6.6 | 259 |
| 38 | Orbital Interactions in Biâ€Sn Bimetallic Electrocatalysts for Highly Selective Electrochemical CO<sub>2</sub> Reduction toward Formate Production. Advanced Energy Materials, 2018, 8, 1802427. | 10.2 | 259 |
| 39 | Advanced Extremely Durable 3D Bifunctional Air Electrodes for Rechargeable Zincâ€Air Batteries. Advanced Energy Materials, 2014, 4, 1301389. | 10.2 | 258 |
| 40 | Flexible Highâ€Energy Polymerâ€Electrolyteâ€Based Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2015, 27, 5617-5622. | 11.1 | 258 |
| 41 | Pomegranateâ€Inspired Design of Highly Active and Durable Bifunctional Electrocatalysts for Rechargeable Metalâ€“Air Batteries. Angewandte Chemie - International Edition, 2016, 55, 4977-4982. | 7.2 | 258 |
| 42 | Graphene-Based Flexible Supercapacitors: Pulse-Electropolymerization of Polypyrrole on Free-Standing Graphene Films. Journal of Physical Chemistry C, 2011, 115, 17612-17620. | 1.5 | 255 |
| 43 | Stringed â€œtube on cubeâ€•nanohybrids as compact cathode matrix for high-loading and lean-electrolyte lithiumâ€“sulfur batteries. Energy and Environmental Science, 2018, 11, 2372-2381. | 15.6 | 255 |
| 44 | Sulfonated Ordered Mesoporous Carbon as a Stable and Highly Active Protonic Acid Catalyst. Chemistry of Materials, 2007, 19, 2395-2397. | 3.2 | 249 |
| 45 | Interpenetrating Triphase Cobaltâ€Based Nanocomposites as Efficient Bifunctional Oxygen Electrocatalysts for Longâ€Lasting Rechargeable Znâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1702900. | 10.2 | 242 |
| 46 | Hollow Multivoid Nanocuboids Derived from Ternary Niâ€“Coâ€“Fe Prussian Blue Analog for Dualâ€Electrocatalysis of Oxygen and Hydrogen Evolution Reactions. Advanced Functional Materials, 2018, 28, 1802129. | 7.8 | 242 |
| 47 | Niâ€Rich/Coâ€Poor Layered Cathode for Automotive Liâ€Ion Batteries: Promises and Challenges. Advanced Energy Materials, 2020, 10, 1903864. | 10.2 | 242 |
| 48 | Preferentially Engineering FeN<sub>4</sub> Edge Sites onto Graphitic Nanosheets for Highly Active and Durable Oxygen Electrocatalysis in Rechargeable Znâ€“Air Batteries. Advanced Materials, 2020, 32, e2004900. | 11.1 | 235 |
| 49 | Self-Assembled NiO/Ni(OH)<sub>2</sub> Nanoflakes as Active Material for High-Power and High-Energy Hybrid Rechargeable Battery. Nano Letters, 2016, 16, 1794-1802. | 4.5 | 222 |
| 50 | Development and Simulation of Sulfurâ€doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction. Advanced Functional Materials, 2014, 24, 4325-4336. | 7.8 | 214 |
| 51 | Facile Hydrothermal Synthesis of VS<sub>2</sub>/Graphene Nanocomposites with Superior High-Rate Capability as Lithium-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2015, 7, 13044-13052. | 4.0 | 210 |
| 52 | Conductive Nanocrystalline Niobium Carbide as Highâ€Efficiency Polysulfides Tamer for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1704865. | 7.8 | 210 |
| 53 | Polyaniline-derived Non-Precious Catalyst for the Polymer Electrolyte Fuel Cell Cathode. ECS Transactions, 2008, 16, 159-170. | 0.3 | 209 |
| 54 | Chemisorption of polysulfides through redox reactions with organic molecules for lithiumâ€“sulfur batteries. Nature Communications, 2018, 9, 705. | 5.8 | 207 |

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| 55 | Lowâ€Bandgap Seâ€Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e1904876. | 11.1 | 206 |
| 56 | Controllable Urchinâ€Like NiCo<sub>2</sub>S<sub>4</sub> Microsphere Synergized with Sulfurâ€Doped Graphene as Bifunctional Catalyst for Superior Rechargeable Znâ€“Air Battery. Advanced Functional Materials, 2018, 28, 1706675. | 7.8 | 203 |
| 57 | Revealing the Rapid Electrocatalytic Behavior of Ultrafine Amorphous Defective Nb<sub>2</sub>O<sub>5â€“x</sub> Nanocluster toward Superior Liâ€“S Performance. ACS Nano, 2020, 14, 4849-4860. | 7.3 | 201 |
| 58 | Carbon Nanotube Film by Filtration as Cathode Catalyst Support for Proton-Exchange Membrane Fuel Cell. Langmuir, 2005, 21, 9386-9389. | 1.6 | 196 |
| 59 | In Situ Polymer Graphenization Ingrained with Nanoporosity in a Nitrogenous Electrocatalyst Boosting the Performance of Polymerâ€Electrolyteâ€Membrane Fuel Cells. Advanced Materials, 2017, 29, 1604456. | 11.1 | 192 |
| 60 | Microporous framework membranes for precise molecule/ion separations. Chemical Society Reviews, 2021, 50, 986-1029. | 18.7 | 191 |
| 61 | Dynamic electrocatalyst with current-driven oxyhydroxide shell for rechargeable zinc-air battery. Nature Communications, 2020, 11, 1952. | 5.8 | 185 |
| 62 | Flexible Rechargeable Zincâ€Air Batteries through Morphological Emulation of Human Hair Array. Advanced Materials, 2016, 28, 6421-6428. | 11.1 | 183 |
| 63 | Synergistic Engineering of Defects and Architecture in Binary Metal Chalcogenide toward Fast and Reliable Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1900228. | 10.2 | 177 |
| 64 | Synergistic Bifunctional Catalyst Design based on Perovskite Oxide Nanoparticles and Intertwined Carbon Nanotubes for Rechargeable Zincâ€“Air Battery Applications. ACS Applied Materials & Interfaces, 2015, 7, 902-910. | 4.0 | 176 |
| 65 | Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a Highâ€Efficiency Lithium Polysulfide Conversion Process. Angewandte Chemie - International Edition, 2021, 60, 2371-2378. | 7.2 | 176 |
| 66 | Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. ACS Catalysis, 2018, 8, 2464-2472. | 5.5 | 175 |
| 67 | Oxygen Reduction on Grapheneâ€“Carbon Nanotube Composites Doped Sequentially with Nitrogen and Sulfur. ACS Catalysis, 2014, 4, 2734-2740. | 5.5 | 174 |
| 68 | Lithium-Sulfur Batteries for Commercial Applications. CheM, 2018, 4, 3-7. | 5.8 | 174 |
| 69 | Polysulfide Regulation by the Zwitterionic Barrier toward Durable Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2020, 142, 3583-3592. | 6.6 | 174 |
| 70 | Enhancing Oxygen Reduction Activity of Ptâ€based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. Angewandte Chemie - International Edition, 2020, 59, 18334-18348. | 7.2 | 174 |
| 71 | Manganese dioxide nanotube and nitrogen-doped carbon nanotube based composite bifunctional catalyst for rechargeable zinc-air battery. Electrochimica Acta, 2012, 69, 295-300. | 2.6 | 173 |
| 72 | Defect Engineering of Chalcogenâ€Tailored Oxygen Electrocatalysts for Rechargeable Quasiâ€Solidâ€State Zincâ€“Air Batteries. Advanced Materials, 2017, 29, 1702526. | 11.1 | 171 |

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| 73 | Electrospun porous nanorod perovskite oxide/nitrogen-doped graphene composite as a bi-functional catalyst for metal air batteries. Nano Energy, 2014, 10, 192-200. | 8.2 | 168 |
| 74 | Coâ€“N Decorated Hierarchically Porous Graphene Aerogel for Efficient Oxygen Reduction Reaction in Acid. ACS Applied Materials & Interfaces, 2016, 8, 6488-6495. | 4.0 | 166 |
| 75 | Nitrogen-Doped Carbon Nanotubes as Platinum Catalyst Supports for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2010, 114, 21982-21988. | 1.5 | 165 |
| 76 | Sulfur Atoms Bridging Fewâ€Layered MoS<sub>2</sub> with Sâ€Doped Graphene Enable Highly Robust Anode for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1501106. | 10.2 | 165 |
| 77 | 3D Porous Carbon Sheets with Multidirectional Ion Pathways for Fast and Durable Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1702381. | 10.2 | 165 |
| 78 | Sulfur covalently bonded graphene with large capacity and high rate for high-performance sodium-ion batteries anodes. Nano Energy, 2015, 15, 746-754. | 8.2 | 164 |
| 79 | Ptâ^'Ru Supported on Double-Walled Carbon Nanotubes as High-Performance Anode Catalysts for Direct Methanol Fuel Cells. Journal of Physical Chemistry B, 2006, 110, 15353-15358. | 1.2 | 163 |
| 80 | 3-Dimensional porous N-doped graphene foam as a non-precious catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 3343-3350. | 5.2 | 163 |
| 81 | Evidence of covalent synergy in siliconâ€“sulfurâ€“graphene yielding highly efficient and long-life lithium-ion batteries. Nature Communications, 2015, 6, 8597. | 5.8 | 163 |
| 82 | Constructing multifunctional solid electrolyte interface via in-situ polymerization for dendrite-free and low N/P ratio lithium metal batteries. Nature Communications, 2021, 12, 186. | 5.8 | 163 |
| 83 | Three-dimensionally ordered macro-microporous metal organic frameworks with strong sulfur immobilization and catalyzation for high-performance lithium-sulfur batteries. Nano Energy, 2020, 72, 104685. | 8.2 | 160 |
| 84 | Template-guided synthesis of Co nanoparticles embedded in hollow nitrogen doped carbon tubes as a highly efficient catalyst for rechargeable Zn-air batteries. Nano Energy, 2020, 71, 104592. | 8.2 | 157 |
| 85 | Laminated Crossâ€Linked Nanocellulose/Graphene Oxide Electrolyte for Flexible Rechargeable Zincâ€“Air Batteries. Advanced Energy Materials, 2016, 6, 1600476. | 10.2 | 155 |
| 86 | Strings of Porous Carbon Polyhedrons as Selfâ€Standing Cathode Host for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2017, 56, 6176-6180. | 7.2 | 153 |
| 87 | Cationic and anionic redox in lithium-ion based batteries. Chemical Society Reviews, 2020, 49, 1688-1705. | 18.7 | 152 |
| 88 | Rational design of tailored porous carbon-based materials for CO<sub>2</sub> capture. Journal of Materials Chemistry A, 2019, 7, 20985-21003. | 5.2 | 150 |
| 89 | Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. Nano Energy, 2016, 19, 187-197. | 8.2 | 148 |
| 90 | Tailoring FeN<sub>4</sub> Sites with Edge Enrichment for Boosted Oxygen Reduction Performance in Proton Exchange Membrane Fuel Cell. Advanced Energy Materials, 2019, 9, 1803737. | 10.2 | 148 |

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|---|---|---|---|
| 91 | An all-aqueous redox flow battery with unprecedented energy density. Energy and Environmental Science, 2018, 11, 2010-2015. | 15.6 | 147 |
| 92 | Biomass-derived nitrogen-doped hierarchical porous carbon as efficient sulfur host for lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2020, 44, 61-67. | 7.1 | 147 |
| 93 | 3D Ordered Mesoporous Bifunctional Oxygen Catalyst for Electrically Rechargeable Zincâ€“Air Batteries. Small, 2016, 12, 2707-2714. | 5.2 | 144 |
| 94 | Hierarchical Defective Fe<sub>3â€‹</sub><sub>x</sub>C@C Hollow Microsphere Enables Fast and Longâ€‹Lasting Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2020, 30, 2001165. | 7.8 | 144 |
| 95 | Engineering Oversaturated Feâ€‹N<sub>5</sub> Multifunctional Catalytic Sites for Durable Lithiumâ€‹Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 26622-26629. | 7.2 | 144 |
| 96 | Recent Progress on Flexible Zn-Air Batteries. Energy Storage Materials, 2021, 35, 538-549. | 9.5 | 143 |
| 97 | Defect Engineering for Expediting Liâ€“S Chemistry: Strategies, Mechanisms, and Perspectives. Advanced Energy Materials, 2021, 11, 2100332. | 10.2 | 143 |
| 98 | Highly Active Porous Carbon-Supported Nonprecious Metalâ€“N Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells. Journal of Physical Chemistry C, 2010, 114, 8048-8053. | 1.5 | 141 |
| 99 | â€œTwo Ships in a Bottleâ€•Design for Znâ€“Agâ€“O Catalyst Enabling Selective and Long-Lasting CO<sub>2</sub> Electroreduction. Journal of the American Chemical Society, 2021, 143, 6855-6864. | 6.6 | 139 |
| 100 | Polyaniline nanofibre supported platinum nanoelectrocatalysts for direct methanol fuel cells. Nanotechnology, 2006, 17, 5254-5259. | 1.3 | 137 |
| 101 | Fundamental Understanding and Material Challenges in Rechargeable Nonaqueous Liâ€“O<sub>2</sub> Batteries: Recent Progress and Perspective. Advanced Energy Materials, 2018, 8, 1800348. | 10.2 | 137 |
| 102 | Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. Journal of Materials Chemistry A, 2016, 4, 3754-3764. | 5.2 | 136 |
| 103 | Quasi-Covalently Coupled Niâ€“Cu Atomic Pair for Synergistic Electroreduction of CO<sub>2</sub>. Journal of the American Chemical Society, 2022, 144, 9661-9671. | 6.6 | 134 |
| 104 | Ionothermal Synthesis of Oriented Zeolite AEL Films and Their Application as Corrosionâ€‹Resistant Coatings. Angewandte Chemie - International Edition, 2008, 47, 525-528. | 7.2 | 133 |
| 105 | Determination of Iron Active Sites in Pyrolyzed Iron-Based Catalysts for the Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 2761-2768. | 5.5 | 133 |
| 106 | Multidimensional Ordered Bifunctional Air Electrode Enables Flash Reactants Shuttling for Highâ€‹Energy Flexible Znâ€‹Air Batteries. Advanced Energy Materials, 2019, 9, 1900911. | 10.2 | 133 |
| 107 | An Oxygenâ€‹Vacancyâ€‹Rich Semiconductorâ€‹Supported Bifunctional Catalyst for Efficient and Stable Zincâ€“Air Batteries. Advanced Materials, 2019, 31, e1806761. | 11.1 | 133 |
| 108 | Enhanced Reversible Sodiumâ€‹Ion Intercalation by Synergistic Coupling of Fewâ€‹Layered MoS<sub>2</sub> and Sâ€‹Doped Graphene. Advanced Functional Materials, 2017, 27, 1702562. | 7.8 | 132 |

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|---|---|---|---|
| 109 | Nitrogen doped carbon nanotubes synthesized from aliphatic diamines for oxygen reduction reaction. Electrochimica Acta, 2011, 56, 1570-1575. | 2.6 | 131 |
| 110 | Metal-organic frameworks derived platinum-cobalt bimetallic nanoparticles in nitrogen-doped hollow porous carbon capsules as a highly active and durable catalyst for oxygen reduction reaction. Applied Catalysis B: Environmental, 2018, 225, 496-503. | 10.8 | 131 |
| 111 | Nitrogen-doped hollow porous carbon polyhedrons embedded with highly dispersed Pt nanoparticles as a highly efficient and stable hydrogen evolution electrocatalyst. Nano Energy, 2017, 40, 88-94. | 8.2 | 128 |
| 112 | Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. Energy and Environmental Science, 2017, 10, 296-305. | 15.6 | 127 |
| 113 | Multigrain Platinum Nanowires Consisting of Oriented Nanoparticles Anchored on Sulfurâ€Doped Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst. Advanced Materials, 2015, 27, 1229-1234. | 11.1 | 126 |
| 114 | Engineering the Conductive Network of Metal Oxideâ€Based Sulfur Cathode toward Efficient and Longevous Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002076. | 10.2 | 126 |
| 115 | Nitrogen-doped carbon nanotubes as air cathode catalysts in zinc-air battery. Electrochimica Acta, 2011, 56, 5080-5084. | 2.6 | 123 |
| 116 | â€œShip in a Bottleâ€•Design of Highly Efficient Bifunctional Electrocatalysts for Long-Lasting Rechargeable Znâ€“Air Batteries. ACS Nano, 2019, 13, 7062-7072. | 7.3 | 120 |
| 117 | Vertically rooting multifunctional tentacles on carbon scaffold as efficient polysulfide barrier toward superior lithium-sulfur batteries. Nano Energy, 2019, 64, 103905. | 8.2 | 119 |
| 118 | Magneticâ€Fieldâ€Stimulated Efficient Photocatalytic N<sub>2</sub> Fixation over Defective BaTiO<sub>3</sub> Perovskites. Angewandte Chemie - International Edition, 2021, 60, 11910-11918. | 7.2 | 119 |
| 119 | Nanotechnology for environmentally sustainable electromobility. Nature Nanotechnology, 2016, 11, 1039-1051. | 15.6 | 117 |
| 120 | Selfâ€Templated Hierarchically Porous Carbon Nanorods Embedded with Atomic Feâ€N<sub>4</sub> Active Sites as Efficient Oxygen Reduction Electrocatalysts in Znâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2008085. | 7.8 | 117 |
| 121 | Engineered Si Electrode Nanoarchitecture: A Scalable Postfabrication Treatment for the Production of Next-Generation Li-Ion Batteries. Nano Letters, 2014, 14, 277-283. | 4.5 | 116 |
| 122 | CNT-threaded N-doped porous carbon film as binder-free electrode for high-capacity supercapacitor and Liâ€“S battery. Journal of Materials Chemistry A, 2017, 5, 9775-9784. | 5.2 | 115 |
| 123 | Dual phase Li4Ti5O12â€“TiO2 nanowire arrays as integrated anodes for high-rate lithium-ion batteries. Nano Energy, 2014, 9, 383-391. | 8.2 | 114 |
| 124 | The Dualâ€Play of 3D Conductive Scaffold Embedded with Co, N Codoped Hollow Polyhedra toward Highâ€Performance Liâ€“S Full Cell. Advanced Energy Materials, 2018, 8, 1802561. | 10.2 | 114 |
| 125 | A MOFâ€Derivative Decorated Hierarchical Porous Host Enabling Ultrahigh Rates and Superior Longâ€Term Cycling of Dendriteâ€Free Zn Metal Anodes. Advanced Materials, 2022, 34, e2110047. | 11.1 | 114 |
| 126 | Relating Catalysis between Fuel Cell and Metal-Air Batteries. Matter, 2020, 2, 32-49. | 5.0 | 112 |

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|---|---|---|---|
| 127 | Freeâ€Standing Functionalized Graphene Oxide Solid Electrolytes in Electrochemical Gas Sensors. Advanced Functional Materials, 2016, 26, 1729-1736. | 7.8 | 110 |
| 128 | 3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electrocatalysis. ACS Catalysis, 2021, 11, 8837-8846. | 5.5 | 110 |
| 129 | d-Orbital steered active sites through ligand editing on heterometal imidazole frameworks for rechargeable zinc-air battery. Nature Communications, 2020, 11, 5858. | 5.8 | 109 |
| 130 | Graphene Quantum Dotsâ€Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. Advanced Energy Materials, 2020, 10, 2001275. | 10.2 | 109 |
| 131 | Aqueous intercalation-type electrode materials for grid-level energy storage: Beyond the limits of lithium and sodium. Nano Energy, 2018, 50, 229-244. | 8.2 | 108 |
| 132 | Design of Highly Active Perovskite Oxides for Oxygen Evolution Reaction by Combining Experimental and ab Initio Studies. ACS Catalysis, 2015, 5, 4337-4344. | 5.5 | 107 |
| 133 | Synthesis and Characterization of Î³-Fe<sub>2</sub>O<sub>3</sub> for H<sub>2</sub>S Removal at Low Temperature. Industrial & Engineering Chemistry Research, 2015, 54, 8469-8478. | 1.8 | 105 |
| 134 | 3D N-doped hybrid architectures assembled from 0D T-Nb2O5 embedded in carbon microtubes toward high-rate Li-ion capacitors. Nano Energy, 2019, 56, 118-126. | 8.2 | 105 |
| 135 | Hierarchically Porous Multimetalâ€Based Carbon Nanorod Hybrid as an Efficient Oxygen Catalyst for Rechargeable Zincâ€“Air Batteries. Advanced Functional Materials, 2020, 30, 1908167. | 7.8 | 105 |
| 136 | Modulating Metalâ€“Organic Frameworks as Advanced Oxygen Electrocatalysts. Advanced Energy Materials, 2021, 11, 2003291. | 10.2 | 105 |
| 137 | Tantalum-Based Electrocatalyst for Polysulfide Catalysis and Retention for High-Performance Lithium-Sulfur Batteries. Matter, 2020, 3, 920-934. | 5.0 | 104 |
| 138 | Recessed deposition of TiN into N-doped carbon as a cathode host for superior Li-S batteries performance. Nano Energy, 2018, 54, 1-9. | 8.2 | 103 |
| 139 | Amorphizing metal-organic framework towards multifunctional polysulfide barrier for high-performance lithium-sulfur batteries. Nano Energy, 2021, 86, 106094. | 8.2 | 103 |
| 140 | Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 9551-9558. | 4.0 | 101 |
| 141 | Phase evolution of conversion-type electrode for lithium ion batteries. Nature Communications, 2019, 10, 2224. | 5.8 | 99 |
| 142 | Nano-crumples induced Sn-Bi bimetallic interface pattern with moderate electron bank for highly efficient CO2 electroreduction. Nature Communications, 2022, 13, 2486. | 5.8 | 99 |
| 143 | Electrocatalytic activity of nitrogen doped carbon nanotubes with different morphologies for oxygen reduction reaction. Electrochimica Acta, 2010, 55, 4799-4804. | 2.6 | 98 |
| 144 | Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries. Advanced Functional Materials, 2016, 26, 8408-8417. | 7.8 | 98 |

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