# Zhen Zhou

List of Publications by Year
in descending order

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|---|---|---|---|
| 368 papers | 37,875 citations | 1371 108 h-index | 3830 178 g-index |
| 378 all docs | 378 docs citations | 378 times ranked | 30115 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Controllable fabrication and structure evolution of hierarchical 1T-MoS2 nanospheres for efficient hydrogen evolution. Green Energy and Environment, 2022, 7, 314-323. | 8.7 | 28 |
| 2 | 2D Materials Bridging Experiments and Computations for Electro/Photocatalysis. Advanced Energy Materials, 2022, 12, 2003841. | 19.5 | 116 |
| 3 | Building the Stable Oxygen Framework in Highâ€Ni Layered Oxide Cathode for Highâ€Energyâ€Density Liâ€Ion Batteries. Energy and Environmental Materials, 2022, 5, 1260-1269. | 12.8 | 15 |
| 4 | Defective/Doped Grapheneâ€Based Materials as Cathodes for Metalâ€“Air Batteries. Energy and Environmental Materials, 2022, 5, 1103-1116. | 12.8 | 16 |
| 5 | Targeted design of advanced electrocatalysts by machine learning. Chinese Journal of Catalysis, 2022, 43, 11-32. | 14.0 | 63 |
| 6 | Atomic Feâ€“N<sub>4</sub>/C in Flexible Carbon Fiber Membrane as Binderâ€Free Air Cathode for Znâ€“Air Batteries with Stable Cycling over 1000 h. Advanced Materials, 2022, 34, e2105410. | 21.0 | 158 |
| 7 | Nickel single-atom catalysts intrinsically promoted by fast pyrolysis for selective electroreduction of CO2 into CO. Applied Catalysis B: Environmental, 2022, 304, 120997. | 20.2 | 73 |
| 8 | Synthesis of metal silicides using polyhedral oligomeric silsesquioxane as a silicon source for semi-hydrogenation of phenylacetylene. Inorganic Chemistry Frontiers, 2022, 9, 1386-1394. | 6.0 | 0 |
| 9 | Perspective on Theoretical Models for CO<sub>2</sub> Electrochemical Reduction. Journal of Physical Chemistry C, 2022, 126, 3820-3829. | 3.1 | 28 |
| 10 | S vacancies in 2D SnS2 accelerating hydrogen evolution reaction. Science China Materials, 2022, 65, 1833-1841. | 6.3 | 19 |
| 11 | Redox mediators for high-performance lithiumâ€“oxygen batteries. National Science Review, 2022, 9, nwac040. | 9.5 | 54 |
| 12 | Cobalt oxyhydroxide decorating hollow carbon sphere: A high-efficiency multi-functional material for Li-S batteries and alkaline electrocatalysis. Chemical Engineering Journal, 2022, 439, 135790. | 12.7 | 31 |
| 13 | Direct In Situ Spectroscopic Evidence for Solution-Mediated Oxygen Reduction Reaction Intermediates in Aprotic Lithiumâ€“Oxygen Batteries. Nano Letters, 2022, 22, 501-507. | 9.1 | 16 |
| 14 | Fiberâ€Reinforced Composite Polymer Electrolytes for Solidâ€State Lithium Batteries. Advanced Sustainable Systems, 2022, 6, . | 5.3 | 16 |
| 15 | Oxygen reduction reaction on Pt-based electrocatalysts: Four-electron vs. two-electron pathway. Chinese Journal of Catalysis, 2022, 43, 1433-1443. | 14.0 | 37 |
| 16 | Frenkel-defected monolayer MoS2 catalysts for efficient hydrogen evolution. Nature Communications, 2022, 13, 2193. | 12.8 | 137 |
| 17 | Observation of oxygen evolution over a {Ni12}-cluster-based metal-organic framework. Science China Chemistry, 2022, 65, 1088-1093. | 8.2 | 11 |
| 18 | In Situ Anchoring Massive Isolated Pt Atoms at Cationic Vacancies of Î±â€Ni<sub>x</sub>Fe<sub>1â€x</sub>(OH)<sub>2</sub> to Regulate the Electronic Structure for Overall Water Splitting. Advanced Functional Materials, 2022, 32, . | 14.9 | 63 |

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|---|---|---|---|
| 19 | Accelerated Mining of 2D Van der Waals Heterojunctions by Integrating Supervised and Unsupervised Learning. Chemistry of Materials, 2022, 34, 5571-5583. | 6.7 | 7 |
| 20 | Single Moâ€“N<sub>4</sub> Atomic Sites Anchored on Nâ€doped Carbon Nanoflowers as Sulfur Host with Multiple Immobilization and Catalytic Effects for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2022, 32, . | 14.9 | 39 |
| 21 | Lightâ€Assisted Liâ€“O<sub>2</sub> Batteries with Lowered Bias Voltages by Redox Mediators. Small, 2022, 18, . | 10.0 | 13 |
| 22 | Coal-based ultrathin N-doped carbon nanosheets synthesized by molten-salt method for high-performance lithium-ion batteries. Nanotechnology, 2022, 33, 425401. | 2.6 | 5 |
| 23 | Transition metal doping BiOBr nanosheets with oxygen vacancy and exposed {102} facets for visible light nitrogen fixation. Applied Catalysis B: Environmental, 2021, 281, 119516. | 20.2 | 141 |
| 24 | Tuning the structure and morphology of Li2O2 by controlling the crystallinity of catalysts for Li-O2 batteries. Chemical Engineering Journal, 2021, 409, 128145. | 12.7 | 45 |
| 25 | A composite of CoNiP quantum dot-decorated reduced graphene oxide as a sulfur host for Liâ€“S batteries. Journal of Materials Chemistry A, 2021, 9, 16692-16698. | 10.3 | 54 |
| 26 | Controllable atomic defect engineering in layered Ni<sub>x</sub>Fe<sub>1â^'x</sub>(OH)<sub>2</sub> nanosheets for electrochemical overall water splitting. Journal of Materials Chemistry A, 2021, 9, 14432-14443. | 10.3 | 84 |
| 27 | Journal of Materials Chemistry A and Materials Advances Editor's choice web collection: â€œMachine learning for materials innovationâ€. Materials Advances, 2021, 2, 825-826. | 5.4 | 1 |
| 28 | Nonâ€Metal Ion Coâ€Insertion Chemistry in Aqueous Zn/MnO<sub>2</sub> Batteries. Angewandte Chemie, 2021, 133, 7132-7136. | 2.0 | 25 |
| 29 | Recent Advances in Alkali Metalâ€Ion Hybrid Supercapacitors. Batteries and Supercaps, 2021, 4, 1108-1121. | 4.7 | 27 |
| 30 | NASICONâ€Type Na<sub>3</sub>Zr<sub>2</sub>Si<sub>2</sub>PO<sub>12</sub> Solidâ€State Electrolytes for Sodium Batteries**. ChemElectroChem, 2021, 8, 1035-1047. | 3.4 | 68 |
| 31 | Nonâ€Metal Ion Coâ€Insertion Chemistry in Aqueous Zn/MnO<sub>2</sub> Batteries. Angewandte Chemie - International Edition, 2021, 60, 7056-7060. | 13.8 | 146 |
| 32 | Threeâ€Dimensional Grapheneâ€Based Macrostructures for Electrocatalysis. Small, 2021, 17, e2005255. | 10.0 | 34 |
| 33 | High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al3+ insertion. Cell Reports Physical Science, 2021, 2, 100354. | 5.6 | 32 |
| 34 | Single-atom catalysts for electrochemical energy storage and conversion. Journal of Energy Chemistry, 2021, 63, 170-194. | 12.9 | 61 |
| 35 | Catalyst Design for Electrochemical Reduction of CO<sub>2</sub> to Multicarbon Products. Small Methods, 2021, 5, e2100736. | 8.6 | 74 |
| 36 | Pd-promoting reduction of zinc salt to PdZn alloy catalyst for the hydrogenation of nitrothioanisole. Journal of Colloid and Interface Science, 2021, 602, 459-468. | 9.4 | 13 |

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|---|---|---|---|
| 37 | Journal of Materials Chemistry A and Materials Advances Editorâ€™s choice web collection: â€œMachine learning for materials innovationâ€• Journal of Materials Chemistry A, 2021, 9, 1295-1296. | 10.3 | 24 |
| 38 | Carbon Nanofibers with Embedded Sb<sub>2</sub>Se<sub>3</sub> Nanoparticles as Highly Reversible Anodes for Naâ€ion Batteries. Small, 2021, 17, e2006016. | 10.0 | 54 |
| 39 | Understanding the role of axial O in CO<sub>2</sub> electroreduction on NiN<sub>4</sub> single-atom catalysts via simulations in realistic electrochemical environment. Journal of Materials Chemistry A, 2021, 9, 23515-23521. | 10.3 | 45 |
| 40 | In situ redox reaction induced firmly anchoring of Na3V2(PO4)2F3 on reduced graphene oxide & carbon nanosheets as cathodes for high stable sodium-ion batteries. Journal of Power Sources, 2021, 516, 230515. | 7.8 | 21 |
| 41 | Cuâ€“ion induced self-polymerization of Cu phthalocyanine to prepare low-cost organic cathode materials for Li-ion batteries with ultra-high voltage and ultra-fast rate capability. Journal of Materials Chemistry A, 2021, 9, 24915-24921. | 10.3 | 5 |
| 42 | p-Block elements for catalysis. Npj Computational Materials, 2021, 7, . | 8.7 | 10 |
| 43 | Ultrathin salt-free polymer-in-ceramic electrolyte for solid-state sodium batteries. EScience, 2021, 1, 194-202. | 41.6 | 47 |
| 44 | Design of ultralong-life Liâ€“CO<sub>2</sub> batteries with IrO<sub>2</sub> nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. Journal of Materials Chemistry A, 2020, 8, 3763-3770. | 10.3 | 58 |
| 45 | 2â€‰D Materials for Electrochemical Energy Storage: Design, Preparation, and Application. ChemSusChem, 2020, 13, 1155-1171. | 6.8 | 77 |
| 46 | Metalâ€“CO<sub>2</sub> Batteries at the Crossroad to Practical Energy Storage and CO<sub>2</sub> Recycle. Advanced Functional Materials, 2020, 30, 1908285. | 14.9 | 103 |
| 47 | Ni<sub>3</sub>S<sub>2</sub> anchored to N/S co-doped reduced graphene oxide with highly pleated structure as a sulfur host for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 3834-3844. | 10.3 | 56 |
| 48 | Understanding the Structureâ€“Performance Relationship of Lithium-Rich Cathode Materials from an Oxygen-Vacancy Perspective. ACS Applied Materials & Interfaces, 2020, 12, 47655-47666. | 8.0 | 44 |
| 49 | Frontispiz: Enzymeâ€inspired Roomâ€temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie, 2020, 132, . | 2.0 | 0 |
| 50 | Carbon block anodes with columnar nanopores constructed from amine-functionalized carbon nanosheets for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 24393-24400. | 10.3 | 11 |
| 51 | Diversified development of CO2 in energy storage. Green Chemical Engineering, 2020, 1, 79-81. | 6.3 | 14 |
| 52 | A first-principles study of electronic structure and photocatalytic performance of two-dimensional van der Waals MTe2â€“As (MÂ=ÂMo, W) heterostructures. International Journal of Hydrogen Energy, 2020, 45, 27089-27097. | 7.1 | 35 |
| 53 | Enzymeâ€inspired Roomâ€temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie - International Edition, 2020, 59, 17856-17863. | 13.8 | 20 |
| 54 | Coupling of triporosity and strong Auâ€“Li interaction to enable dendrite-free lithium plating/stripping for long-life lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 18094-18105. | 10.3 | 56 |

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|---|---|---|---|
| 55 | Surface modification of garnet with amorphous SnO<sub>2</sub>via atomic layer deposition. Journal of Materials Chemistry A, 2020, 8, 18087-18093. | 10.3 | 25 |
| 56 | Enzymeâ€Inspired Roomâ€Temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie, 2020, 132, 18012-18019. | 2.0 | 4 |
| 57 | A Machine Learning Model on Simple Features for CO<sub>2</sub> Reduction Electrocatalysts. Journal of Physical Chemistry C, 2020, 124, 22471-22478. | 3.1 | 125 |
| 58 | Frontispiece: Enzymeâ€Inspired Roomâ€Temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie - International Edition, 2020, 59, . | 13.8 | 0 |
| 59 | Targeting specific cell organelles with different-faceted nanocrystals that are selectively recognized by organelle-targeting peptides. Chemical Communications, 2020, 56, 7613-7616. | 4.1 | 6 |
| 60 | Building Artificial Solidâ€Electrolyte Interphase with Uniform Intermolecular Ionic Bonds toward Dendriteâ€Free Lithium Metal Anodes. Advanced Functional Materials, 2020, 30, 2002414. | 14.9 | 104 |
| 61 | A CO<sub>2</sub>-Assisted Sodiumâ€“Phenanthrenequinone Battery. Journal of Physical Chemistry Letters, 2020, 11, 5350-5353. | 4.6 | 3 |
| 62 | Well-dispersed Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>F<sub>3</sub>@rGO with improved kinetics for high-power sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 12391-12397. | 10.3 | 76 |
| 63 | Machine learning: Accelerating materials development for energy storage and conversion. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 553-576. | 17.3 | 212 |
| 64 | Boosting bifunctional electrocatalytic activity in S and N co-doped carbon nanosheets for high-efficiency Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 4386-4395. | 10.3 | 101 |
| 65 | A Cu<sub>2</sub>B<sub>2</sub> monolayer with planar hypercoordinate motifs: an efficient catalyst for CO electroreduction to ethanol. Journal of Materials Chemistry A, 2020, 8, 9607-9615. | 10.3 | 32 |
| 66 | Electronic and photocatalytic performance of boron phosphide-blue phosphorene vdW heterostructures. Applied Surface Science, 2020, 523, 146483. | 6.1 | 77 |
| 67 | Towards practical lithium-metal anodes. Chemical Society Reviews, 2020, 49, 3040-3071. | 38.1 | 473 |
| 68 | Critical interface between inorganic solid-state electrolyte and sodium metal. Materials Today, 2020, 41, 200-218. | 14.2 | 62 |
| 69 | Electrolyteâ€Regulated Solidâ€Electrolyte Interphase Enables Long Cycle Life Performance in Organic Cathodes for Potassiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1807137. | 14.9 | 120 |
| 70 | Sulfur/nickel ferrite composite as cathode with high-volumetric-capacity for lithium-sulfur battery. Science China Materials, 2019, 62, 74-86. | 6.3 | 86 |
| 71 | Highâ€throughput computational screening of layered and twoâ€dimensional materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2019, 9, e1385. | 14.6 | 43 |
| 72 | CuO Nanoplates for Highâ€Performance Potassiumâ€Ion Batteries. Small, 2019, 15, e1901775. | 10.0 | 111 |

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| 73 | Algorithm screening to accelerate discovery of 2D metal-free electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 19290-19296. | 10.3 | 48 |
| 74 | Liâ€N<sub>2</sub> Batteries: A Reversible Energy Storage System?. Angewandte Chemie - International Edition, 2019, 58, 17782-17787. | 13.8 | 39 |
| 75 | Cation-induced chirality in a bifunctional metal-organic framework for quantitative enantioselective recognition. Nature Communications, 2019, 10, 5117. | 12.8 | 150 |
| 76 | Liâ€N 2 Batteries: A Reversible Energy Storage System?. Angewandte Chemie, 2019, 131, 17946-17951. | 2.0 | 2 |
| 77 | Bifunctional electrocatalysts for rechargeable Zn-air batteries. Chinese Journal of Catalysis, 2019, 40, 1298-1310. | 14.0 | 111 |
| 78 | Metalâ€“organic-framework-derived porous 3D heterogeneous NiFe<sub>x</sub>/NiFe<sub>2</sub>O<sub>4</sub>@NC nanoflowers as highly stable and efficient electrocatalysts for the oxygen-evolution reaction. Journal of Materials Chemistry A, 2019, 7, 21338-21348. | 10.3 | 71 |
| 79 | Integrated insights into Na<sup>+</sup> storage mechanism and electrochemical kinetics of ultrafine V<sub>2</sub>O<sub>3</sub>/S and N co-doped rGO composites as anodes for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 22429-22435. | 10.3 | 29 |
| 80 | Recent Progress in Protecting Lithium Anodes for Liâ€O<sub>2</sub> Batteries. ChemElectroChem, 2019, 6, 1969-1977. | 3.4 | 39 |
| 81 | Synergistic effect of Zr-MOF on phosphomolybdic acid promotes efficient oxidative desulfurization. Applied Catalysis B: Environmental, 2019, 256, 117804. | 20.2 | 131 |
| 82 | Computationally predicting spin semiconductors and half metals from doped phosphorene monolayers. Frontiers of Physics, 2019, 14, 1. | 5.0 | 14 |
| 83 | Lithium-air batteries: Challenges coexist with opportunities. APL Materials, 2019, 7, . | 5.1 | 47 |
| 84 | MoCl<sub>5</sub> as a dual-function redox mediator for Liâ€“O<sub>2</sub> batteries. Journal of Materials Chemistry A, 2019, 7, 14239-14243. | 10.3 | 23 |
| 85 | A Gadolinium(III) Zeolite-like Metal-Organic-Framework-Based Magnetic Resonance Thermometer. CheM, 2019, 5, 1609-1618. | 11.7 | 38 |
| 86 | Computational Screening of Layered Materials for Multivalent Ion Batteries. ACS Omega, 2019, 4, 7822-7828. | 3.5 | 33 |
| 87 | Band engineering of two-dimensional Ruddlesdenâ€“Popper perovskites for solar utilization: the relationship between chemical components and electronic properties. Journal of Materials Chemistry A, 2019, 7, 11530-11536. | 10.3 | 17 |
| 88 | Carbonâ€Based Substrates for Highly Dispersed Nanoparticle and Even Singleâ€Atom Electrocatalysts. Small Methods, 2019, 3, 1900050. | 8.6 | 87 |
| 89 | Understanding Rechargeable Liâ^'O<sub>2</sub> Batteries via Firstâ€Principles Computations. Batteries and Supercaps, 2019, 2, 498-508. | 4.7 | 31 |
| 90 | Bi-layer Graphene: Structure, Properties, Preparation and Prospects. Current Graphene Science, 2019, 2, 97-105. | 0.5 | 3 |

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| 91 | 2D Triphosphides: SbP3 and GaP3 monolayer as promising photocatalysts for water splitting. International Journal of Hydrogen Energy, 2019, 44, 5948-5954. | 7.1 | 52 |
| 92 | LiFePO<sub>4</sub> Particles Embedded in Fast Bifunctional Conductor rGO&C@Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Nanosheets as Cathodes for Highâ€Performance Liâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2019, 29, 1807895. | 14.9 | 42 |
| 93 | Titelbild: Liâ€N<sub>2</sub> Batteries: A Reversible Energy Storage System? (Angew. Chem. 49/2019). Angewandte Chemie, 2019, 131, 17645-17645. | 2.0 | 1 |
| 94 | Fe nanodot-decorated MoS<sub>2</sub> nanosheets on carbon cloth: an efficient and flexible electrode for ambient ammonia synthesis. Journal of Materials Chemistry A, 2019, 7, 27417-27422. | 10.3 | 77 |
| 95 | Rational design of C<sub>2</sub>N-based type-II heterojunctions for overall photocatalytic water splitting. Nanoscale Advances, 2019, 1, 154-161. | 4.6 | 70 |
| 96 | Exploiting Synergistic Effect by Integrating Rutheniumâ€“Copper Nanoparticles Highly Coâ€Dispersed on Graphene as Efficient Air Cathodes for Liâ€“CO<sub>2</sub> Batteries. Advanced Energy Materials, 2019, 9, 1802805. | 19.5 | 100 |
| 97 | Highly reversible alloying/dealloying behavior of SnSb nanoparticles incorporated into N-rich porous carbon nanowires for ultra-stable Na storage. Energy Storage Materials, 2019, 21, 203-209. | 18.0 | 42 |
| 98 | Metalâ€“Organic Frameworks (MOFs) and MOF-Derived Materials for Energy Storage and Conversion. Electrochemical Energy Reviews, 2019, 2, 29-104. | 25.5 | 274 |
| 99 | Promoting Nitrogen Electroreduction on Mo<sub>2</sub>C Nanoparticles Highly Dispersed on Nâ€Doped Carbon Nanosheets toward Rechargeable Liâ€“N<sub>2</sub> Batteries. Small Methods, 2019, 3, 1800334. | 8.6 | 36 |
| 100 | Carbonâ€Supported Divacancyâ€Anchored Platinum Singleâ€Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. Angewandte Chemie, 2019, 131, 1175-1179. | 2.0 | 73 |
| 101 | Carbonâ€Supported Divacancyâ€Anchored Platinum Singleâ€Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 1163-1167. | 13.8 | 252 |
| 102 | Fabricating high-performance sodium ion capacitors with P2-Na0.67Co0.5Mn0.5O2 and MOF-derived carbon. Journal of Energy Chemistry, 2019, 28, 79-84. | 12.9 | 31 |
| 103 | Bifunctional electrocatalysts of MOF-derived Coâ€“N/C on bamboo-like MnO nanowires for high-performance liquid- and solid-state Znâ€“air batteries. Journal of Materials Chemistry A, 2018, 6, 9716-9722. | 10.3 | 167 |
| 104 | Thermal Instability Induced Oriented 2D Pores for Enhanced Sodium Storage. Small, 2018, 14, e1800639. | 10.0 | 46 |
| 105 | Synergistic electrocatalytic oxygen reduction reactions of Pd/B4C for ultra-stable Zn-air batteries. Energy Storage Materials, 2018, 15, 226-233. | 18.0 | 45 |
| 106 | Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts. Small Methods, 2018, 2, 1700359. | 8.6 | 151 |
| 107 | Binder-free NiFe 2 O 4 /C nanofibers as air cathodes for Li-O 2 batteries. Journal of Power Sources, 2018, 377, 136-141. | 7.8 | 59 |
| 108 | Micro/Nanostructured Materials for Sodium Ion Batteries and Capacitors. Small, 2018, 14, 1702961. | 10.0 | 210 |

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|---|---|---|---|
| 109 | Identification of cathode stability in Liâ€“CO<sub>2</sub>batteries with Cu nanoparticles highly dispersed on N-doped graphene. Journal of Materials Chemistry A, 2018, 6, 3218-3223. | 10.3 | 126 |
| 110 | What is the promising anode material for Na ion batteries?. Science Bulletin, 2018, 63, 146-148. | 9.0 | 28 |
| 111 | High performance Liâ€“CO<sub>2</sub> batteries with NiOâ€“CNT cathodes. Journal of Materials Chemistry A, 2018, 6, 2792-2796. | 10.3 | 146 |
| 112 | Computational screening and first-principles investigations of NASICON-type Li<sub>x</sub>M<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> as solid electrolytes for Li batteries. Journal of Materials Chemistry A, 2018, 6, 2625-2631. | 10.3 | 46 |
| 113 | An effective method to screen sodium-based layered materials for sodium ion batteries. Npj Computational Materials, 2018, 4, . | 8.7 | 77 |
| 114 | SiP monolayers: New 2D structures of group IVâ€“V compounds for visible-light photohydrolytic catalysts. Frontiers of Physics, 2018, 13, 1. | 5.0 | 30 |
| 115 | Metal-oxygen bonds: Stabilizing the intermediate species towards practical Li-air batteries. Electrochimica Acta, 2018, 259, 313-320. | 5.2 | 12 |
| 116 | Hard carbon derived from corn straw piths as anode materials for sodium ion batteries. Ionics, 2018, 24, 1075-1081. | 2.4 | 59 |
| 117 | Verifying the Rechargeability of Liâ€CO<sub>2</sub> Batteries on Working Cathodes of Ni Nanoparticles Highly Dispersed on Nâ€Doped Graphene. Advanced Science, 2018, 5, 1700567. | 11.2 | 159 |
| 118 | MXene-based materials for electrochemical energy storage. Journal of Energy Chemistry, 2018, 27, 73-85. | 12.9 | 548 |
| 119 | PAN@ZIF-67-Derived â€œGypsophilaâ€•Like CNFs@Co-CoO Composite as a Cathode for Liâ€“O<sub>2</sub> Batteries. Inorganic Chemistry, 2018, 57, 14476-14479. | 4.0 | 22 |
| 120 | Heteroatom-doped carbon materials and their composites as electrocatalysts for CO<sub>2</sub> reduction. Journal of Materials Chemistry A, 2018, 6, 18782-18793. | 10.3 | 136 |
| 121 | Cu<sub>3</sub>-Cluster-Doped Monolayer Mo<sub>2</sub>CO<sub>2</sub> (MXene) as an Electron Reservoir for Catalyzing a CO Oxidation Reaction. ACS Applied Materials & Interfaces, 2018, 10, 32903-32912. | 8.0 | 51 |
| 122 | Double-atom catalysts: transition metal dimer-anchored C<sub>2</sub>N monolayers as N<sub>2</sub> fixation electrocatalysts. Journal of Materials Chemistry A, 2018, 6, 18599-18604. | 10.3 | 224 |
| 123 | Robust ferromagnetism in zigzag-edge rich MoS<sub>2</sub> pyramids. Nanoscale, 2018, 10, 11578-11584. | 5.6 | 25 |
| 124 | Unveiling the Complex Effects of H<sub>2</sub>O on Dischargeâ€“Recharge Behaviors of Aprotic Lithiumâ€“O<sub>2</sub> Batteries. Journal of Physical Chemistry Letters, 2018, 9, 3333-3339. | 4.6 | 60 |
| 125 | Transition metal anchored C<sub>2</sub>N monolayers as efficient bifunctional electrocatalysts for hydrogen and oxygen evolution reactions. Journal of Materials Chemistry A, 2018, 6, 11446-11452. | 10.3 | 223 |
| 126 | Micro/Nanostructureâ€Dependent Electrochemical Performances of Sb 2 O 3 Microâ€Bundles as Anode Materials for Sodiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 2522-2527. | 3.4 | 15 |

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|---|---|---|---|
| 127 | Interlayerâ€Spacingâ€Regulated VOPO<sub>4</sub> Nanosheets with Fast Kinetics for Highâ€Capacity and Durable Rechargeable Magnesium Batteries. Advanced Materials, 2018, 30, e1801984. | 21.0 | 171 |
| 128 | An Extremely Simple Method for Protecting Lithium Anodes in Liâ€O<sub>2</sub> Batteries. Angewandte Chemie, 2018, 130, 12996-13000. | 2.0 | 40 |
| 129 | Moltenâ€Saltâ€Assisted Synthesis of 3D Holey Nâ€Doped Graphene as Bifunctional Electrocatalysts for Rechargeable Znâ€“Air Batteries. Small Methods, 2018, 2, 1800144. | 8.6 | 77 |
| 130 | An Extremely Simple Method for Protecting Lithium Anodes in Liâ€O<sub>2</sub> Batteries. Angewandte Chemie - International Edition, 2018, 57, 12814-12818. | 13.8 | 88 |
| 131 | Electronic structure of heterojunction MoO2/g-C3N4 catalyst for oxidative desulfurization. Applied Catalysis B: Environmental, 2018, 238, 263-273. | 20.2 | 178 |
| 132 | In Situ Chelating Synthesis of Hierarchical LiNi<sub>1/3</sub>Co<sub>1/3</sub>Mn<sub>1/3</sub>O<sub>2</sub> Polyhedron Assemblies with Ultralong Cycle Life for Liâ€Ion Batteries. Small, 2018, 14, e1704354. | 10.0 | 27 |
| 133 | Fabricating Ir/C Nanofiber Networks as Freeâ€Standing Air Cathodes for Rechargeable Liâ€CO<sub>2</sub> Batteries. Small, 2018, 14, e1800641. | 10.0 | 118 |
| 134 | Water Splitting: Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts (Small Methods 5/2018). Small Methods, 2018, 2, 1800031. | 8.6 | 1 |
| 135 | Ultrathin Layered Hydroxide Cobalt Acetate Nanoplates Faceâ€toâ€Face Anchored to Graphene Nanosheets for Highâ€Efficiency Lithium Storage. Advanced Functional Materials, 2017, 27, 1605544. | 14.9 | 103 |
| 136 | Metalâ€“CO<sub>2</sub> Batteries on the Road: CO<sub>2</sub> from Contamination Gas to Energy Source. Advanced Materials, 2017, 29, 1605891. | 21.0 | 226 |
| 137 | Tetragonal-structured anisotropic 2D metal nitride monolayers and their halides with versatile promises in energy storage and conversion. Journal of Materials Chemistry A, 2017, 5, 2870-2875. | 10.3 | 42 |
| 138 | A Robust Hybrid of SnO<sub>2</sub> Nanoparticles Sheathed by Nâ€Doped Carbon Derived from ZIFâ€8 as Anodes for Liâ€Ion Batteries. ChemNanoMat, 2017, 3, 252-258. | 2.8 | 23 |
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