Peng Zhang

List of Publications by Year in descending order

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29 2,084 20 29
papers citations h-index g-index

29 29 29 2847 all docs docs citations times ranked citing authors

| # | Article | IF | Citations |
|----|---|------|-----------|
| 1 | Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO ₂ -Containing Products in Li–O ₂ Batteries Using Cryogenic Electron Microscopy. Journal of the American Chemical Society, 2022, 144, 2129-2136. | 13.7 | 28 |
| 2 | Decomposition pathway and stabilization of ether-based electrolytes in the discharge process of Li-O2 battery. Journal of Energy Chemistry, 2022, 69, 516-523. | 12.9 | 20 |
| 3 | Heteroatom Doping-Induced Defected Co ₃ O ₄ Electrode for High-Performance Lithium Oxygen Battery. ACS Applied Energy Materials, 2022, 5, 3359-3368. | 5.1 | 9 |
| 4 | Vacancy Defect-Rich Perovskite SrTiO ₃ /Ti ₃ C ₂ Heterostructures In Situ Derived from Ti ₃ C ₂ MXenes with Exceptional Oxygen Catalytic Activity for Advanced Zn–Air Batteries. ACS Applied Energy Materials, 2022, 5, 6100-6109. | 5.1 | 14 |
| 5 | Unraveling the decomposition mechanism of Li2CO3 in the aprotic medium by isotope-labeled differential electrochemical mass spectrometry. Journal of Energy Chemistry, 2022, 73, 1-4. | 12.9 | 3 |
| 6 | Porous hollow ZnCo2S4 nanosheet arrays derived from metal-organic framework as efficient cathode for lithium oxygen batteries. Journal of Alloys and Compounds, 2021, 860, 157656. | 5.5 | 13 |
| 7 | LiOH: A "double-edged―effect toward electrochemical oxidation of Li2O2. Journal of Energy Chemistry, 2021, 57, 401-405. | 12.9 | 6 |
| 8 | Bifunctional Catalytic Activity Guided by Rich Crystal Defects in Ti ₃ C ₂ MXene Quantum Dot Clusters for Li–O ₂ Batteries. Advanced Energy Materials, 2021, 11, 2003069. | 19.5 | 52 |
| 9 | Greatly promoted oxygen reduction reaction activity of solid catalysts by regulating the stability of superoxide in metal-O2 batteries. Science China Materials, 2021, 64, 870-879. | 6.3 | 12 |
| 10 | Electrochemical Oxidation of Li ₂ O ₂ Surface-Doped with Li ₂ CO ₃ . ACS Applied Materials & amp; Interfaces, 2020, 12, 6627-6632. | 8.0 | 11 |
| 11 | Nitrogenâ€Doped Cobalt Pyrite Yolk–Shell Hollow Spheres for Longâ€Life Rechargeable Zn–Air Batteries. Advanced Science, 2020, 7, 2001178. | 11.2 | 206 |
| 12 | Challenges and Strategy on Parasitic Reaction for Highâ€Performance Nonaqueous Lithium–Oxygen Batteries. Advanced Energy Materials, 2020, 10, 2001789. | 19.5 | 62 |
| 13 | Atomically dispersed cobalt catalyst anchored on nitrogen-doped carbon nanosheets for lithium-oxygen batteries. Nature Communications, 2020, 11, 1576. | 12.8 | 237 |
| 14 | Inhibition of Discharge Side Reactions by Promoting Solution-Mediated Oxygen Reduction Reaction with Stable Quinone in Li–O ₂ Batteries. ACS Applied Materials & amp; Interfaces, 2020, 12, 10607-10615. | 8.0 | 23 |
| 15 | A Liquid/Liquid Electrolyte Interface that Inhibits Corrosion and Dendrite Growth of Lithium in Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 6397-6405. | 13.8 | 50 |
| 16 | A Liquid/Liquid Electrolyte Interface that Inhibits Corrosion and Dendrite Growth of Lithium in Lithiumâ€Metal Batteries. Angewandte Chemie, 2020, 132, 6459-6467. | 2.0 | 14 |
| 17 | Hierarchical NiCo ₂ S ₄ @NiO Core–Shell Heterostructures as Catalytic Cathode for Longâ€Life Liâ€O ₂ Batteries. Advanced Energy Materials, 2019, 9, 1900788. | 19.5 | 124 |
| 18 | Oneâ€Step Route Synthesized Co ₂ P/Ru/Nâ€Doped Carbon Nanotube Hybrids as Bifunctional Electrocatalysts for Highâ€Performance Li–O ₂ Batteries. Small, 2019, 15, e1900001. | 10.0 | 48 |

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|----|--|------|-----------|
| 19 | Promoting Surface-Mediated Oxygen Reduction Reaction of Solid Catalysts in Metal–O ₂ Batteries by Capturing Superoxide Species. Journal of the American Chemical Society, 2019, 141, 6263-6270. | 13.7 | 69 |
| 20 | Functional and stability orientation synthesis of materials and structures in aprotic Li–O ₂ batteries. Chemical Society Reviews, 2018, 47, 2921-3004. | 38.1 | 282 |
| 21 | Realizing the Embedded Growth of Large Li ₂ O ₂ Aggregations by Matching Different Metal Oxides for Highâ€Capacity and Highâ€Rate Lithium Oxygen Batteries. Advanced Science, 2017, 4, 1700172. | 11.2 | 59 |
| 22 | 3D Hierarchical Co/CoOâ€Grapheneâ€Carbonized Melamine Foam as a Superior Cathode toward Longâ€Life Lithium Oxygen Batteries. Advanced Functional Materials, 2016, 26, 1354-1364. | 14.9 | 206 |
| 23 | Morphology Engineering of Co ₃ O ₄ Nanoarrays as Free-Standing Catalysts for Lithium–Oxygen Batteries. ACS Applied Materials & Diterfaces, 2016, 8, 23713-23720. | 8.0 | 82 |
| 24 | Highly Conductive Mo ₂ C Nanofibers Encapsulated in Ultrathin MnO ₂ Nanosheets as a Self-Supported Electrode for High-Performance Capacitive Energy Storage. ACS Applied Materials & Diterfaces, 2016, 8, 32460-32467. | 8.0 | 49 |
| 25 | Hierarchical porous nitrogen doped three-dimensional graphene as a free-standing cathode for rechargeable lithium-oxygen batteries. Electrochimica Acta, 2016, 191, 90-97. | 5.2 | 43 |
| 26 | The role of oxygen vacancies in improving the performance of CoO as a bifunctional cathode catalyst for rechargeable Li–O ₂ batteries. Journal of Materials Chemistry A, 2015, 3, 17598-17605. | 10.3 | 155 |
| 27 | Synthesis of Porous δâ€MnO ₂ Submicron Tubes as Highly Efficient Electrocatalyst for Rechargeable Li–O ₂ Batteries. ChemSusChem, 2015, 8, 1972-1979. | 6.8 | 42 |
| 28 | The controlled growth of porous l´-MnO2nanosheets on carbon fibers as a bi-functional catalyst for rechargeable lithium–oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 10811-10818. | 10.3 | 55 |
| 29 | Free-Standing Three-Dimensional Graphene/Manganese Oxide Hybrids As Binder-Free Electrode Materials for Energy Storage Applications. ACS Applied Materials & Samp; Interfaces, 2014, 6, 11665-11674. | 8.0 | 110 |