

Huiyu Song

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,766
citations

279798

23
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223800

46
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46
all docs

46
docs citations

46
times ranked

4462
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High Performance Fe- and N- Doped Carbon Catalyst with Graphene Structure for Oxygen Reduction. Scientific Reports, 2013, 3, . | 3.3 | 514 |
| 2 | Effect of Transition Metals on the Structure and Performance of the Doped Carbon Catalysts Derived From Polyaniline and Melamine for ORR Application. ACS Catalysis, 2014, 4, 3797-3805. | 11.2 | 351 |
| 3 | Transition Metal Nitride Coated with Atomic Layers of Pt as a Low-Cost, Highly Stable Electrocatalyst for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2016, 138, 1575-1583. | 13.7 | 348 |
| 4 | Inhibition of Polysulfide Shuttles in Li ⁺ S Batteries: Modified Separators and Solid ⁺ State Electrolytes. Advanced Energy Materials, 2021, 11, 2000779. | 19.5 | 188 |
| 5 | Hierarchically Porous, Ultrathick, ⁺ “Breathable ⁺ Wood ⁺ Derived Cathode for Lithium ⁺ Oxygen Batteries. Advanced Energy Materials, 2018, 8, 1701203. | 19.5 | 161 |
| 6 | Limitations and Improvement Strategies for Early-Transition-Metal Nitrides as Competitive Catalysts toward the Oxygen Reduction Reaction. ACS Catalysis, 2016, 6, 6165-6174. | 11.2 | 130 |
| 7 | A high-performance composite ORR catalyst based on the synergy between binary transition metal nitride and nitrogen-doped reduced graphene oxide. Journal of Materials Chemistry A, 2017, 5, 5829-5837. | 10.3 | 93 |
| 8 | Textile Inspired Lithium ⁺ Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. Advanced Materials, 2018, 30, 1704907. | 21.0 | 92 |
| 9 | Pd nanoparticles decorating flower-like Co ₃ O ₄ nanowire clusters to form an efficient, carbon/binder-free cathode for Li ⁺ O ₂ batteries. Journal of Materials Chemistry A, 2015, 3, 15626-15632. | 10.3 | 67 |
| 10 | From <i>Chlorella</i> to Nestlike Framework Constructed with Doped Carbon Nanotubes: A Biomass-Derived, High-Performance, Bifunctional Oxygen Reduction/Evolution Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 32168-32178. | 8.0 | 63 |
| 11 | MOF-Templated sword-like Co ₃ O ₄ @NiCo ₂ O ₄ sheet arrays on carbon cloth as highly efficient Li ⁺ O ₂ battery cathode. Journal of Power Sources, 2020, 450, 227725. | 7.8 | 62 |
| 12 | Conversion of polystyrene foam to a high-performance doped carbon catalyst with ultrahigh surface area and hierarchical porous structures for oxygen reduction. Journal of Materials Chemistry A, 2014, 2, 12240-12246. | 10.3 | 52 |
| 13 | A Co-doped porous niobium nitride nanogrid as an effective oxygen reduction catalyst. Journal of Materials Chemistry A, 2017, 5, 14278-14285. | 10.3 | 51 |
| 14 | Self-humidification of a PEM fuel cell using a novel Pt/SiO ₂ /C anode catalyst. International Journal of Hydrogen Energy, 2010, 35, 7874-7880. | 7.1 | 50 |
| 15 | Ultra-high-performance doped carbon catalyst derived from o-phenylenediamine and the probable roles of Fe and melamine. Applied Catalysis B: Environmental, 2014, 158-159, 60-69. | 20.2 | 49 |
| 16 | Template-Free Preparation of 3D Porous Co-Doped VN Nanosheet-Assembled Microflowers with Enhanced Oxygen Reduction Activity. ACS Applied Materials & Interfaces, 2018, 10, 11604-11612. | 8.0 | 47 |
| 17 | Recent advances in nanostructured transition metal nitrides for fuel cells. Journal of Materials Chemistry A, 2020, 8, 20803-20818. | 10.3 | 45 |
| 18 | A renewable wood-derived cathode for Li ⁺ O ₂ batteries. Journal of Materials Chemistry A, 2018, 6, 14291-14298. | 10.3 | 38 |

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|----|--|------|-----------|
| 19 | High performance LiFePO ₄ microsphere composed of nanofibers with an alcohol-thermal approach. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4546. | 10.3 | 35 |
| 20 | Co ₄ N ₄ -Decorated 3D Wood-Derived Carbon Host Enables Enhanced Cathodic Electrocatalysis and Homogeneous Lithium Deposition for Lithium-Sulfur Full Cells. <i>Small</i> , 2022, 18, e2105664. | 10.0 | 34 |
| 21 | Dendrite-Free Composite Li Anode Assisted by Ag Nanoparticles in a Wood-Derived Carbon Frame. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18361-18367. | 8.0 | 33 |
| 22 | A biocompatible drug delivery nanovalve system on the surface of mesoporous nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 200-204. | 4.4 | 32 |
| 23 | High-performance self-humidifying membrane electrode assembly prepared by simultaneously adding inorganic and organic hygroscopic materials to the anode catalyst layer. <i>Journal of Power Sources</i> , 2013, 241, 367-372. | 7.8 | 26 |
| 24 | Ultra-high-performance core-shell structured Ru@Pt/C catalyst prepared by a facile pulse electrochemical deposition method. <i>Scientific Reports</i> , 2015, 5, 11604. | 3.3 | 21 |
| 25 | Nanoconfined Nitrogen-Doped Carbon-Coated Hierarchical TiCoN Composites with Enhanced ORR Performance. <i>ChemElectroChem</i> , 2018, 5, 2041-2049. | 3.4 | 19 |
| 26 | Facile Room-Temperature Synthesis of a Highly Active and Robust Single-Crystal Pt Multipod Catalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49510-49518. | 8.0 | 17 |
| 27 | Three dimensional palladium nanoflowers with enhanced electrocatalytic activity towards the anodic oxidation of formic acid. <i>Journal of Materials Chemistry A</i> , 2015, 3, 973-977. | 10.3 | 16 |
| 28 | Robust InNCo ₃ Mn Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 5293-5300. | 5.1 | 13 |
| 29 | Recent Advances and Perspectives in Lithium-Sulfur Pouch Cells. <i>Molecules</i> , 2021, 26, 6341. | 3.8 | 12 |
| 30 | Immobilization of highly active Pd nano-catalysts on functionalized mesoporous silica supports using mercapto groups as anchoring sites and their catalytic performance for phenol hydrogenation. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1519-1526. | 14.0 | 11 |
| 31 | Spinel LiMn ₂ O ₄ Nanoparticles Grown in Situ on Nitrogen-Doped Reduced Graphene Oxide as an Efficient Cathode for a Li-O ₂ /Li-Ion Twin Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 430-439. | 6.7 | 11 |
| 32 | Robust and Efficient Pd-Cu Bimetallic Catalysts with Porous Structure for Formic Acid Oxidation and a Mechanistic Study of Electrochemical Dealloying. <i>Electrocatalysis</i> , 2021, 12, 117-126. | 3.0 | 10 |
| 33 | Ultrafast Carbothermal Shock Constructing Ni ₃ Fe-Cr Intermetallic Integrated Electrodes for Efficient and Durable Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19524-19533. | 8.0 | 10 |
| 34 | Effects of tailoring and dehydrated cross-linking on morphology evolution of ordered mesoporous carbons. <i>RSC Advances</i> , 2016, 6, 19515-19521. | 3.6 | 9 |
| 35 | MOF-Derived Carbon Materials Mounted with Highly Dispersed Ru and MoO ₃ for Rechargeable Li ₂ O Cathode Yield Enhanced Cyclability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2296-2303. | 6.7 | 9 |
| 36 | High-Performance 3D Pinecone-Like LiNi 1/3 Co 1/3 Mn 1/3 O ₂ Cathode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800769. | 3.8 | 8 |

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|----|--|-----|-----------|
| 37 | Yucca-like CoO@CoN Nanoarray with Abundant Oxygen Vacancies as a High-Performance Cathode for Lithium-Oxygen Batteries. ACS Applied Energy Materials, 2020, 3, 12000-12008. | 5.1 | 8 |
| 38 | Biogelatin-Derived and N,S-Codoped 3D Network Carbon Materials Anchored with RuO ₂ as an Efficient Cathode for Rechargeable Li-O ₂ Batteries. Journal of Physical Chemistry C, 2021, 125, 21914-21921. | 3.1 | 7 |
| 39 | Design of a Multispherical Cavity Carbon with In Situ Silica Modifications and Its Self-Humidification Application on Fuel Cell Anode Support. Advanced Materials Interfaces, 2018, 5, 1800314. | 3.7 | 6 |
| 40 | Enhanced durability and self-humidification of platinum catalyst through decoration with SnSi binary oxide. Journal of Applied Electrochemistry, 2018, 48, 1163-1173. | 2.9 | 5 |
| 41 | Stable and active Pt colloid preparation by modified citrate reduction and a mechanism analysis of inorganic additives. Journal of Colloid and Interface Science, 2020, 572, 74-82. | 9.4 | 3 |
| 42 | An Efficient Bifunctional Electrocatalyst of Phosphorous Carbon Co-doped MOFs. Nanoscale Research Letters, 2020, 15, 169. | 5.7 | 3 |
| 43 | Facile synthesis of high dispersion ¹³ -Fe ₂ O ₃ @Au nanoparticles within mesoporous silica spheres. RSC Advances, 2015, 5, 49914-49919. | 3.6 | 2 |
| 44 | An efficient carbon catalyst supports with mesoporous graphene-like morphology. Journal of Porous Materials, 2018, 25, 913-921. | 2.6 | 2 |
| 45 | Enhanced performance of LiNi _{0.03} Mo _{0.01} Mn _{1.96} O ₄ cathode materials coated with biomass-derived carbon layer. Ionics, 2019, 25, 917-925. | 2.4 | 2 |
| 46 | Effect of sodium citrate on preparation of nano-sized cobalt particles by organic colloidal process. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2009, 4, 154-159. | 0.4 | 1 |