Niancai Cheng

List of Publications by Year in descending order

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| | | 236925 | 377865 |
|----------|----------------|--------------|----------------|
| 35 | 4,104 | 25 | 34 |
| papers | citations | h-index | g-index |
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| 35 | 35 | 35 | 6378 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 1 | Regulating the intermediate affinity on Pd nanoparticles through the control of inserted-B atoms for alkaline hydrogen evolution. Chemical Engineering Journal, 2022, 433, 133525. | 12.7 | 23 |
| 2 | Electronic modulation optimizes OH* intermediate adsorption on Co-Nx-C sites via coupling CoNi alloy in hollow carbon nanopolyhedron toward efficient reversible oxygen electrocatalysis. Applied Catalysis B: Environmental, 2022, 304, 121006. | 20.2 | 76 |
| 3 | Reduced water dissociation barrier on constructing Pt-Co/CoOx interface for alkaline hydrogen evolution. Nano Research, 2022, 15, 4958-4964. | 10.4 | 31 |
| 4 | Electronic modulation of Pt nanoclusters through tuning the interface of Pt-SnO2 clusters for enhanced hydrogen evolution catalysis. Chemical Engineering Journal, 2022, 435, 135102. | 12.7 | 28 |
| 5 | Progressively stimulating carrier motion over transient metal chalcogenide quantum dots towards solar-to-hydrogen conversion. Journal of Materials Chemistry A, 2022, 10, 11926-11937. | 10.3 | 32 |
| 6 | Tuning the dual-active sites of ZIF-67 derived porous nanomaterials for boosting oxygen catalysis and rechargeable Zn-air batteries. Nano Research, 2021, 14, 2353. | 10.4 | 66 |
| 7 | Defects enriched hollow porous Co-N-doped carbons embedded with ultrafine CoFe/Co nanoparticles as bifunctional oxygen electrocatalyst for rechargeable flexible solid zinc-air batteries. Nano Research, 2021, 14, 868-878. | 10.4 | 102 |
| 8 | Confined sub-nanometer PtCo clusters as a highly efficient and robust electrocatalyst for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 5468-5474. | 10.3 | 58 |
| 9 | Electronic tuning of confined sub-nanometer cobalt oxide clusters boosting oxygen catalysis and rechargeable Zn–air batteries. Nano Energy, 2021, 83, 105813. | 16.0 | 103 |
| 10 | Pt ₃ Sn nanoparticles enriched with SnO ₂ /Pt ₃ Sn interfaces for highly efficient alcohol electrooxidation. Nanoscale Advances, 2021, 3, 5062-5067. | 4.6 | 5 |
| 11 | High-performance alcohol electrooxidation on Pt ₃ Sn–SnO ₂ nanocatalysts synthesized through the transformation of Pt–Sn nanoparticles. Journal of Materials Chemistry A, 2020, 8, 592-598. | 10.3 | 31 |
| 12 | Thiourea-Zeolitic imidazolate Framework-67 assembly derived Co–CoO nanoparticles encapsulated in N, S Codoped open carbon shell as bifunctional oxygen electrocatalyst for rechargeable flexible solid Zn–Air batteries. Journal of Power Sources, 2020, 473, 228570. | 7.8 | 45 |
| 13 | Structurally Ordered Pt ₃ Co Nanoparticles Anchored on N-Doped Graphene for Highly Efficient Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 16938-16945. | 6.7 | 23 |
| 14 | Hydrazine Hydrate Induced Two-Dimensional Porous Co ³⁺ Enriched Co ₃ O ₄ Nanosheets for Enhanced Water Oxidation Catalysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 9813-9821. | 6.7 | 55 |
| 15 | Defect-enriched hollow porous Co–N-doped carbon for oxygen reduction reaction and Zn-Air batteries. Carbon, 2020, 167, 188-195. | 10.3 | 73 |
| 16 | Encapsulating Pt Nanoparticles inside a Derived Two-Dimensional Metal–Organic Frameworks for the Enhancement of Catalytic Activity. ACS Applied Materials & Interfaces, 2020, 12, 10359-10368. | 8.0 | 54 |
| 17 | Enhancement of the performance of Pd nanoclusters confined within ultrathin silica layers for formic acid oxidation. Nanoscale, 2020, 12, 12891-12897. | 5. 6 | 16 |
| 18 | Highly Active and Durable Ultrasmall Pd Nanocatalyst Encapsulated in Ultrathin Silica Layers by Selective Deposition for Formic Acid Oxidation. ACS Applied Materials & Samp; Interfaces, 2019, 11, 43130-43137. | 8.0 | 18 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Single-Atom Catalysts: From Design to Application. Electrochemical Energy Reviews, 2019, 2, 539-573. | 25.5 | 320 |
| 20 | Highly Exposed Active Sites of Defect-Enriched Derived MOFs for Enhanced Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 17855-17862. | 6.7 | 66 |
| 21 | Structurally ordered PtSn intermetallic nanoparticles supported on ATO for efficient methanol oxidation reaction. Nanoscale, 2019, 11, 19895-19902. | 5.6 | 35 |
| 22 | Heterometallic metal–organic framework nanocages of high crystallinity: an elongated channel structure formed <i>in situ</i> through metal-ion (M = W or Mo) doping. Journal of Materials Chemistry A, 2018, 6, 23336-23344. | 10.3 | 33 |
| 23 | Atomic layer deposited tantalum oxide to anchor Pt/C for a highly stable catalyst in PEMFCs. Journal of Materials Chemistry A, 2017, 5, 9760-9767. | 10.3 | 48 |
| 24 | Origin of the high oxygen reduction reaction of nitrogen and sulfur co-doped MOF-derived nanocarbon electrocatalysts. Materials Horizons, 2017, 4, 900-907. | 12.2 | 95 |
| 25 | Antipoisoning Performance of Platinum Catalysts with Varying Carbon Nanotube Properties: Electrochemically Revealing the Importance of Defects. ChemElectroChem, 2017, 4, 296-303. | 3.4 | 3 |
| 26 | Recent Progress on MOF-Derived Nanomaterials as Advanced Electrocatalysts in Fuel Cells. Catalysts, 2016, 6, 116. | 3.5 | 105 |
| 27 | Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. Nature Communications, 2016, 7, 13638. | 12.8 | 1,521 |
| 28 | Electrocatalysts by atomic layer deposition for fuel cell applications. Nano Energy, 2016, 29, 220-242. | 16.0 | 79 |
| 29 | Metal organic frameworks for energy storage and conversion. Energy Storage Materials, 2016, 2, 35-62. | 18.0 | 483 |
| 30 | Atomic scale enhancement of metal–support interactions between Pt and ZrC for highly stable electrocatalysts. Energy and Environmental Science, 2015, 8, 1450-1455. | 30.8 | 120 |
| 31 | Extremely Stable Platinum Nanoparticles Encapsulated in a Zirconia Nanocage by Areaâ€Selective Atomic Layer Deposition for the Oxygen Reduction Reaction. Advanced Materials, 2015, 27, 277-281. | 21.0 | 238 |
| 32 | High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. International Journal of Hydrogen Energy, 2014, 39, 15967-15974. | 7.1 | 51 |
| 33 | Enhanced life of proton exchange membrane fuel cell catalysts using perfluorosulfonic acid stabilized carbon support. Electrochimica Acta, 2011, 56, 2154-2159. | 5.2 | 21 |
| 34 | Improved lifetime of PEM fuel cell catalysts through polymer stabilization. Electrochemistry Communications, 2009, 11, 1610-1614. | 4.7 | 46 |
| 35 | Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. , 0, . | | 1 |