# Gang Wu

## List of Publications by Citations



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|---|---|---|---|
| 333 papers | 32,929 citations | 95 h-index | 175 g-index |
| 346 ext. papers | 39,318 ext. citations | 12.1 avg, IF | 7.84 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 333 | High-performance electrocatalysts for oxygen reduction derived from polyaniline, iron, and cobalt. *Science*, **2011**, 332, 443-7 | 33.3 | 3271 |
| 332 | Recent advances in non-precious metal catalysis for oxygen-reduction reaction in polymer electrolyte fuel cells. *Energy and Environmental Science*, **2011**, 4, 114-130 | 35.4 | 1311 |
| 331 | Nanostructured nonprecious metal catalysts for oxygen reduction reaction. *Accounts of Chemical Research*, **2013**, 46, 1878-89 | 24.3 | 875 |
| 330 | Single Atomic Iron Catalysts for Oxygen Reduction in Acidic Media: Particle Size Control and Thermal Activation. *Journal of the American Chemical Society*, **2017**, 139, 14143-14149 | 16.4 | 856 |
| 329 | Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. *Nature Catalysis*, **2018**, 1, 935-945 | 36.5 | 691 |
| 328 | Nitrogen-Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. *Advanced Materials*, **2018**, 30, 1706758 | 24 | 590 |
| 327 | Transition metal (Fe, Co, Ni, and Mn) oxides for oxygen reduction and evolution bifunctional catalysts in alkaline media. *Nano Today*, **2016**, 11, 601-625 | 17.9 | 565 |
| 326 | Carbon nanocomposite catalysts for oxygen reduction and evolution reactions: From nitrogen doping to transition-metal addition. *Nano Energy*, **2016**, 29, 83-110 | 17.1 | 540 |
| 325 | Synthesis□tructure□erformance correlation for polyaniline□e□C non-precious metal cathode catalysts for oxygen reduction in fuel cells. *Journal of Materials Chemistry*, **2011**, 21, 11392 | | 480 |
| 324 | Highly active atomically dispersed CoN4 fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. *Energy and Environmental Science*, **2019**, 12, 250-260 | 35.4 | 475 |
| 323 | Nitrogen-doped graphene-rich catalysts derived from heteroatom polymers for oxygen reduction in nonaqueous lithium-O2 battery cathodes. *ACS Nano*, **2012**, 6, 9764-76 | 16.7 | 443 |
| 322 | Achievements, challenges and perspectives on cathode catalysts in proton exchange membrane fuel cells for transportation. *Nature Catalysis*, **2019**, 2, 578-589 | 36.5 | 429 |
| 321 | Metal (Ni, Co)-Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. *Advanced Functional Materials*, **2015**, 25, 5799-5808 | 15.6 | 407 |
| 320 | Nitrogen-modified carbon-based catalysts for oxygen reduction reaction in polymer electrolyte membrane fuel cells. *Journal of Power Sources*, **2009**, 188, 38-44 | 8.9 | 383 |
| 319 | Development of high performance carbon composite catalyst for oxygen reduction reaction in PEM Proton Exchange Membrane fuel cells. *Journal of Power Sources*, **2008**, 183, 34-42 | 8.9 | 375 |
| 318 | Experimental Observation of Redox-Induced Fe-N Switching Behavior as a Determinant Role for Oxygen Reduction Activity. *ACS Nano*, **2015**, 9, 12496-505 | 16.7 | 374 |
| 317 | Graphene/graphene-tube nanocomposites templated from cage-containing metal-organic frameworks for oxygen reduction in Li-O□batteries. *Advanced Materials*, **2014**, 26, 1378-86 | 24 | 360 |

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| 316 | Directly converting Fe-doped metal–organic frameworks into highly active and stable Fe-N-C catalysts for oxygen reduction in acid. *Nano Energy*, **2016**, 25, 110-119 | 17.1 | 348 |
| 315 | Multitechnique Characterization of a Polyaniline–Iron–Carbon Oxygen Reduction Catalyst. *Journal of Physical Chemistry C*, **2012**, 116, 16001-16013 | 3.8 | 336 |
| 314 | Integrating NiCo Alloys with Their Oxides as Efficient Bifunctional Cathode Catalysts for Rechargeable Zinc-Air Batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 9654-8 | 16.4 | 321 |
| 313 | Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N2 and H2O in alkaline electrolytes. *Nano Energy*, **2018**, 48, 217-226 | 17.1 | 309 |
| 312 | Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage. *Advanced Energy Materials*, **2014**, 4, 1301415 | 21.8 | 307 |
| 311 | New approach to fully ordered fct-FePt nanoparticles for much enhanced electrocatalysis in acid. *Nano Letters*, **2015**, 15, 2468-73 | 11.5 | 304 |
| 310 | Unveiling Active Sites of CO2 Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. *ACS Catalysis*, **2018**, 8, 3116-3122 | 13.1 | 304 |
| 309 | Silicon-based anodes for lithium-ion batteries: Effectiveness of materials synthesis and electrode preparation. *Nano Energy*, **2016**, 27, 359-376 | 17.1 | 297 |
| 308 | High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. *Energy and Environmental Science*, **2019**, 12, 2548-2558 | 35.4 | 280 |
| 307 | PGM-Free Cathode Catalysts for PEM Fuel Cells: A Mini-Review on Stability Challenges. *Advanced Materials*, **2019**, 31, e1807615 | 24 | 267 |
| 306 | Remarkable support effect of SWNTs in Pt catalyst for methanol electrooxidation. *Electrochemistry Communications*, **2005**, 7, 1237-1243 | 5.1 | 261 |
| 305 | Engineering nanostructures of PGM-free oxygen-reduction catalysts using metal-organic frameworks. *Nano Energy*, **2017**, 31, 331-350 | 17.1 | 257 |
| 304 | 3D printing technologies for electrochemical energy storage. *Nano Energy*, **2017**, 40, 418-431 | 17.1 | 253 |
| 303 | Advanced Electrocatalysts with Single-Metal-Atom Active Sites. *Chemical Reviews*, **2020**, 120, 12217-12314 | 60.1 | 235 |
| 302 | Atomically dispersed metal-nitrogen-carbon catalysts for fuel cells: advances in catalyst design, electrode performance, and durability improvement. *Chemical Society Reviews*, **2020**, 49, 3484-3524 | 58.5 | 230 |
| 301 | High-Loading Cobalt Oxide Coupled with Nitrogen-Doped Graphene for Oxygen Reduction in Anion-Exchange-Membrane Alkaline Fuel Cells. *Journal of Physical Chemistry C*, **2013**, 117, 8697-8707 | 3.8 | 221 |
| 300 | A Graphene-Supported Single-Atom FeN Catalytic Site for Efficient Electrochemical CO Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 14871-14876 | 16.4 | 215 |
| 299 | Current progress of Pt and Pt-based electrocatalysts used for fuel cells. *Sustainable Energy and Fuels*, **2020**, 4, 15-30 | 5.8 | 214 |

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| 298 | Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN Sites for Oxygen Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 18971-18980 | 16.4 | 207 |
| 297 | Synthesis of nitrogen-doped onion-like carbon and its use in carbon-based CoFe binary non-precious-metal catalysts for oxygen-reduction. *Carbon*, **2011**, 49, 3972-3982 | 10.4 | 205 |
| 296 | Ordered PtCo Intermetallic Nanoparticles Derived from Metal-Organic Frameworks for Oxygen Reduction. *Nano Letters*, **2018**, 18, 4163-4171 | 11.5 | 204 |
| 295 | Well-dispersed high-loading pt nanoparticles supported by shell-core nanostructured carbon for methanol electrooxidation. *Langmuir*, **2008**, 24, 3566-75 | 4 | 203 |
| 294 | Effect of electrochemical polarization of PtRu/C catalysts on methanol electrooxidation. *Electrochimica Acta*, **2004**, 50, 1-10 | 6.7 | 202 |
| 293 | Polyaniline-derived Non-Precious Catalyst for the Polymer Electrolyte Fuel Cell Cathode. *ECS Transactions*, **2009**, 16, 159-170 | 1 | 197 |
| 292 | Metal-organic framework-derived bamboo-like nitrogen-doped graphene tubes as an active matrix for hybrid oxygen-reduction electrocatalysts. *Small*, **2015**, 11, 1443-52 | 11 | 191 |
| 291 | N-, P-, and S-doped graphene-like carbon catalysts derived from onium salts with enhanced oxygen chemisorption for Zn-air battery cathodes. *Applied Catalysis B: Environmental*, **2019**, 241, 442-451 | 21.8 | 190 |
| 290 | Performance enhancement and degradation mechanism identification of a single-atom Co□N□C catalyst for proton exchange membrane fuel cells. *Nature Catalysis*, **2020**, 3, 1044-1054 | 36.5 | 186 |
| 289 | A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. *Chemical Communications*, **2013**, 49, 3291-3 | 5.8 | 185 |
| 288 | Zinc-Mediated Template Synthesis of Fe-N-C Electrocatalysts with Densely Accessible Fe-N Active Sites for Efficient Oxygen Reduction. *Advanced Materials*, **2020**, 32, e1907399 | 24 | 183 |
| 287 | Highly Active and Stable Graphene Tubes Decorated with FeCoNi Alloy Nanoparticles via a Template-Free Graphitization for Bifunctional Oxygen Reduction and Evolution. *Advanced Energy Materials*, **2016**, 6, 1601198 | 21.8 | 183 |
| 286 | Atomically Dispersed Metal Catalysts for Oxygen Reduction. *ACS Energy Letters*, **2019**, 4, 1619-1633 | 20.1 | 176 |
| 285 | Ozonated graphene oxide film as a proton-exchange membrane. *Angewandte Chemie - International Edition*, **2014**, 53, 3588-93 | 16.4 | 173 |
| 284 | Low-temperature ammonia decomposition catalysts for hydrogen generation. *Applied Catalysis B: Environmental*, **2018**, 226, 162-181 | 21.8 | 171 |
| 283 | Oxygen-deficient $BaTiO_{3-\delta}$ perovskite as an efficient bifunctional oxygen electrocatalyst. *Nano Energy*, **2015**, 13, 423-432 | 17.1 | 168 |
| 282 | High-performance non-spinel cobalt□manganese mixed oxide-based bifunctional electrocatalysts for rechargeable zinc□air batteries. *Nano Energy*, **2016**, 20, 315-325 | 17.1 | 158 |
| 281 | Anodically electrodeposited Co+Ni mixed oxide electrode: preparation and electrocatalytic activity for oxygen evolution in alkaline media. *Journal of Solid State Chemistry*, **2004**, 177, 3682-3692 | 3.3 | 158 |

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| 280 | Bifunctional Perovskite Oxide Catalysts for Oxygen Reduction and Evolution in Alkaline Media. *Chemistry - an Asian Journal*, **2016**, 11, 10-21 | 4.5 | 155 |
| 279 | Carbon nanotube supported Pt electrodes for methanol oxidation: A comparison between multi- and single-walled carbon nanotubes. *Journal of Power Sources*, **2007**, 174, 148-158 | 8.9 | 151 |
| 278 | Fe?N4 Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium. *Advanced Energy Materials*, **2018**, 8, 1801912 | 21.8 | 149 |
| 277 | Electrodeposited Co□Ni□Al2O3 composite coatings. *Surface and Coatings Technology*, **2004**, 176, 157-164 | 4.4 | 148 |
| 276 | Engineering Local Coordination Environments of Atomically Dispersed and Heteroatom-Coordinated Single Metal Site Electrocatalysts for Clean Energy-Conversion. *Advanced Energy Materials*, **2020**, 10, 1902844 | 21.8 | 147 |
| 275 | Controlled assembly of Cu nanoparticles on pyridinic-N rich graphene for electrochemical reduction of CO2 to ethylene. *Nano Energy*, **2016**, 24, 1-9 | 17.1 | 146 |
| 274 | Morphology-dependent performance of CuO anodes via facile and controllable synthesis for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 1243-50 | 9.5 | 145 |
| 273 | Structure of Fe□Nx□C Defects in Oxygen Reduction Reaction Catalysts from First-Principles Modeling. *Journal of Physical Chemistry C*, **2014**, 118, 14388-14393 | 3.8 | 145 |
| 272 | Core□shell structured hollow SnO2□polypyrrole nanocomposite anodes with enhanced cyclic performance for lithium-ion batteries. *Nano Energy*, **2014**, 6, 73-81 | 17.1 | 141 |
| 271 | Iron-Free Cathode Catalysts for Proton-Exchange-Membrane Fuel Cells: Cobalt Catalysts and the Peroxide Mitigation Approach. *Advanced Materials*, **2019**, 31, e1805126 | 24 | 139 |
| 270 | Polyaniline-carbon composite films as supports of Pt and PtRu particles for methanol electrooxidation. *Carbon*, **2005**, 43, 2579-2587 | 10.4 | 139 |
| 269 | Controlled synthesis of micro/nanostructured CuO anodes for lithium-ion batteries. *Nano Energy*, **2014**, 9, 334-344 | 17.1 | 136 |
| 268 | Performance Durability of Polyaniline-derived Non-precious Cathode Catalysts. *ECS Transactions*, **2009**, 25, 1299-1311 | 1 | 132 |
| 267 | Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and High-Power PGM-Free Cathodes in Fuel Cells. *Advanced Materials*, **2020**, 32, e2003577 | 24 | 132 |
| 266 | Enhanced methanol electro-oxidation activity of PtRu catalysts supported on heteroatom-doped carbon. *Electrochimica Acta*, **2008**, 53, 7622-7629 | 6.7 | 125 |
| 265 | Effective strategies for stabilizing sulfur for advanced lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 448-469 | 13 | 124 |
| 264 | 3D direct writing fabrication of electrodes for electrochemical storage devices. *Journal of Power Sources*, **2017**, 354, 134-147 | 8.9 | 123 |
| 263 | Mechanistic understanding of the role separators playing in advanced lithium-sulfur batteries. *Informa□□Materi□y*, **2020**, 2, 483-508 | 23.1 | 121 |

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| 262 | Mn- and N- doped carbon as promising catalysts for oxygen reduction reaction: Theoretical prediction and experimental validation. *Applied Catalysis B: Environmental*, **2019**, 243, 195-203 | 21.8 | 121 |
| 261 | Antiperovskite LiOCl Superionic Conductor Films for Solid-State Li-Ion Batteries. *Advanced Science*, **2016**, 3, 1500359 | 13.6 | 120 |
| 260 | Titanium dioxide-supported non-precious metal oxygen reduction electrocatalyst. *Chemical Communications*, **2010**, 46, 7489-91 | 5.8 | 119 |
| 259 | Methanol electrooxidation on Pt particles dispersed into PANI/SWNT composite films. *Journal of Power Sources*, **2006**, 155, 118-127 | 8.9 | 117 |
| 258 | Stability of iron species in heat-treated polyaniline□iron□carbon polymer electrolyte fuel cell cathode catalysts. *Electrochimica Acta*, **2013**, 110, 282-291 | 6.7 | 115 |
| 257 | Graphene/Fe2O3/SnO2 ternary nanocomposites as a high-performance anode for lithium ion batteries. *ACS Applied Materials & Interfaces*, **2013**, 5, 8607-14 | 9.5 | 114 |
| 256 | Morphology Control of Carbon-Free Spinel NiCoO Catalysts for Enhanced Bifunctional Oxygen Reduction and Evolution in Alkaline Media. *ACS Applied Materials & Interfaces*, **2017**, 9, 44567-44578 | 9.5 | 113 |
| 255 | 3D porous graphitic nanocarbon for enhancing the performance and durability of Pt catalysts: a balance between graphitization and hierarchical porosity. *Energy and Environmental Science*, **2019**, 12, 2830-2841 | 35.4 | 112 |
| 254 | Nitrogen-doped magnetic onion-like carbon as support for Pt particles in a hybrid cathode catalyst for fuel cells. *Journal of Materials Chemistry*, **2010**, 20, 3059 | | 111 |
| 253 | Role of Local Carbon Structure Surrounding FeN4 Sites in Boosting the Catalytic Activity for Oxygen Reduction. *Journal of Physical Chemistry C*, **2017**, 121, 11319-11324 | 3.8 | 109 |
| 252 | Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. *Nano Energy*, **2017**, 42, 69-89 | 17.1 | 109 |
| 251 | Cation and anion Co-doping synergy to improve structural stability of Li- and Mn-rich layered cathode materials for lithium-ion batteries. *Nano Energy*, **2019**, 57, 157-165 | 17.1 | 108 |
| 250 | Advanced Electrocatalysis for Energy and Environmental Sustainability via Water and Nitrogen Reactions. *Advanced Materials*, **2021**, 33, e2000381 | 24 | 108 |
| 249 | Nanocarbon/oxide composite catalysts for bifunctional oxygen reduction and evolution in reversible alkaline fuel cells: A mini review. *Journal of Power Sources*, **2018**, 375, 277-290 | 8.9 | 107 |
| 248 | Tungsten carbide as supports for Pt electrocatalysts with improved CO tolerance in methanol oxidation. *Journal of Power Sources*, **2011**, 196, 6125-6130 | 8.9 | 107 |
| 247 | Carbon-Rich Nonprecious Metal Single Atom Electrocatalysts for CO2 Reduction and Hydrogen Evolution. *Small Methods*, **2019**, 3, 1900210 | 12.8 | 105 |
| 246 | Nanostructured carbon-based cathode catalysts for nonaqueous lithium-oxygen batteries. *Physical Chemistry Chemical Physics*, **2014**, 16, 13568-82 | 3.6 | 102 |
| 245 | Phosphate-Tolerant Oxygen Reduction Catalysts. *ACS Catalysis*, **2014**, 4, 3193-3200 | 13.1 | 100 |

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| 244 | One-step synthesis of Mn3O4/reduced graphene oxide nanocomposites for oxygen reduction in nonaqueous Li-O2 batteries. *Chemical Communications*, **2013**, 49, 10838-40 | 5.8 | 100 |
| 243 | Atomic Arrangement Engineering of Metallic Nanocrystals for Energy-Conversion Electrocatalysis. *Joule*, **2019**, 3, 956-991 | 27.8 | 98 |
| 242 | Size-controlled large-diameter and few-walled carbon nanotube catalysts for oxygen reduction. *Nanoscale*, **2015**, 7, 20290-8 | 7.7 | 98 |
| 241 | Advanced Mesoporous Spinel Li4Ti5O12/rGO Composites with Increased Surface Lithium Storage Capability for High-Power Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 9162-9 | 9.5 | 98 |
| 240 | Engineering Favorable Morphology and Structure of Fe-N-C Oxygen-Reduction Catalysts through Tuning of Nitrogen/Carbon Precursors. *ChemSusChem*, **2017**, 10, 774-785 | 8.3 | 97 |
| 239 | . *ACS Catalysis*, **2017**, 7, 8386-8393 | 13.1 | 97 |
| 238 | Li-rich anti-perovskite Li3OCl films with enhanced ionic conductivity. *Chemical Communications*, **2014**, 50, 11520-2 | 5.8 | 95 |
| 237 | 3D polymer hydrogel for high-performance atomic iron-rich catalysts for oxygen reduction in acidic media. *Applied Catalysis B: Environmental*, **2017**, 219, 629-639 | 21.8 | 94 |
| 236 | Energy storage materials derived from Prussian blue analogues. *Science Bulletin*, **2017**, 62, 358-368 | 10.6 | 91 |
| 235 | Metal-Organic Frameworks and Their Derived Materials as Electrocatalysts and Photocatalysts for CO Reduction: Progress, Challenges, and Perspectives. *Chemistry - A European Journal*, **2018**, 24, 18137-18157 | 4.8 | 90 |
| 234 | Carbon-supported Co1.67Te2 nanoparticles as electrocatalysts for oxygen reduction reaction in alkaline electrolyte. *Journal of Materials Chemistry*, **2009**, 19, 6581 | | 89 |
| 233 | Electro-catalytic oxidation of CO on Pt catalyst supported on carbon nanotubes pretreated with oxidative acids. *Carbon*, **2006**, 44, 2973-2983 | 10.4 | 89 |
| 232 | High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. *Advanced Science*, **2016**, 3, 1600140 | 13.6 | 89 |
| 231 | Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N2 and H2O. *Small Methods*, **2020**, 4, 1900821 | 12.8 | 88 |
| 230 | Lattice Boltzmann Pore-Scale Investigation of Coupled Physical-electrochemical Processes in C/Pt and Non-Precious Metal Cathode Catalyst Layers in Proton Exchange Membrane Fuel Cells. *Electrochimica Acta*, **2015**, 158, 175-186 | 6.7 | 88 |
| 229 | Review Ammonia Oxidation Electrocatalysis for Hydrogen Generation and Fuel Cells. *Journal of the Electrochemical Society*, **2018**, 165, J3130-J3147 | 3.9 | 87 |
| 228 | Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction in PEM Fuel Cells: Self-Template Synthesis Approach to Enhancing Catalytic Activity and Stability. *Electrochemical Energy Reviews*, **2019**, 2, 231-251 | 29.3 | 86 |
| 227 | A Roadmap to Low-Cost Hydrogen with Hydroxide Exchange Membrane Electrolyzers. *Advanced Materials*, **2019**, 31, e1805876 | 24 | 85 |

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| 226 | Controllable synthesis of magnetic carbon composites with high porosity and strong acid resistance from hydrochar for efficient removal of organic pollutants: An overlooked influence. *Carbon*, **2016**, 99, 338-347 | 10.4 | 84 |
| 225 | Platinum-group-metal catalysts for proton exchange membrane fuel cells: From catalyst design to electrode structure optimization. *EnergyChem*, **2020**, 2, 100023 | 36.9 | 84 |
| 224 | Photocatalysis and Photoelectrocatalysis Methods of Nitrogen Reduction for Sustainable Ammonia Synthesis. *Small Methods*, **2019**, 3, 1800352 | 12.8 | 82 |
| 223 | Innovation and challenges in materials design for flexible rechargeable batteries: from 1D to 3D. *Journal of Materials Chemistry A*, **2018**, 6, 735-753 | 13 | 82 |
| 222 | Honeycomb-like Hard Carbon Derived from Pine Pollen as High-Performance Anode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 42796-42803 | 9.5 | 80 |
| 221 | Experimental visualization of lithium conduction pathways in garnet-type Li7La3Zr2O12. *Chemical Communications*, **2012**, 48, 9840-2 | 5.8 | 79 |
| 220 | Structure-Dependent Electrocatalytic Properties of Cu2O Nanocrystals for Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2013**, 117, 13872-13878 | 3.8 | 79 |
| 219 | Highly Dispersed Pd-CeO2 Nanoparticles Supported on N-Doped Core□Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. *ACS Catalysis*, **2019**, 9, 6362-6371 | 13.1 | 78 |
| 218 | Cu-Deficient Plasmonic Cu2□S Nanoplate Electrocatalysts for Oxygen Reduction. *ACS Catalysis*, **2015**, 5, 2534-2540 | 13.1 | 78 |
| 217 | Amorphous Co□e□ nanospheres for efficient water oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 25378-25384 | 13 | 78 |
| 216 | Ni□CeO2 composite cathode material for hydrogen evolution reaction in alkaline electrolyte. *International Journal of Hydrogen Energy*, **2012**, 37, 13921-13932 | 6.7 | 76 |
| 215 | High performance Li3V2(PO4)3/C composite cathode material for lithium ion batteries studied in pilot scale test. *Electrochimica Acta*, **2010**, 55, 8595-8599 | 6.7 | 75 |
| 214 | Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 4192-4198 | 16.4 | 75 |
| 213 | Graphene-Riched Co9S8-N-C Non-Precious Metal Catalyst for Oxygen Reduction in Alkaline Media. *ECS Transactions*, **2011**, 41, 1709-1717 | 1 | 74 |
| 212 | 3D graphene framework supported Li2S coated with ultra-thin Al2O3 films: binder-free cathodes for high-performance lithium sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 102-112 | 13 | 71 |
| 211 | Electrochemical ammonia synthesis through N2 and H2O under ambient conditions: Theory, practices, and challenges for catalysts and electrolytes. *Nano Energy*, **2020**, 69, 104469 | 17.1 | 71 |
| 210 | Electrooxidations of ethanol, acetaldehyde and acetic acid using PtRuSn/C catalysts prepared by modified alcohol-reduction process. *Journal of Power Sources*, **2007**, 172, 180-188 | 8.9 | 69 |
| 209 | Sn-doped TiO2 modified carbon to support Pt anode catalysts for direct methanol fuel cells. *Journal of Power Sources*, **2015**, 286, 354-361 | 8.9 | 66 |

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| 208 | Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. *Energy and Environmental Science*, **2020**, 13, 3544-3555 | 35.4 | 66 |
| 207 | Engineering Atomically Dispersed FeN Active Sites for CO Electroreduction. *Angewandte Chemie - International Edition*, **2021**, 60, 1022-1032 | 16.4 | 66 |
| 206 | Current challenge and perspective of PGM-free cathode catalysts for PEM fuel cells. *Frontiers in Energy*, **2017**, 11, 286-298 | 2.6 | 64 |
| 205 | A Graphene-Supported Single-Atom FeN5 Catalytic Site for Efficient Electrochemical CO2 Reduction. *Angewandte Chemie*, **2019**, 131, 15013-15018 | 3.6 | 64 |
| 204 | Restoring the Nitrogen Cycle by Electrochemical Reduction of Nitrate: Progress and Prospects. *Small Methods*, **2020**, 4, 2000672 | 12.8 | 62 |
| 203 | High Power Density Platinum Group Metal-free Cathodes for Polymer Electrolyte Fuel Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 2216-2224 | 9.5 | 61 |
| 202 | Atomically Dispersed MnN4 Catalysts via Environmentally Benign Aqueous Synthesis for Oxygen Reduction: Mechanistic Understanding of Activity and Stability Improvements. *ACS Catalysis*, **2020**, 10, 10523-10534 | 13.1 | 61 |
| 201 | A Combined Probe-Molecule, M□sbauer, Nuclear Resonance Vibrational Spectroscopy, and Density Functional Theory Approach for Evaluation of Potential Iron Active Sites in an Oxygen Reduction Reaction Catalyst. *Journal of Physical Chemistry C*, **2017**, 121, 16283-16290 | 3.8 | 60 |
| 200 | Boosting CO2 reduction on Fe-N-C with sulfur incorporation: Synergistic electronic and structural engineering. *Nano Energy*, **2020**, 68, 104384 | 17.1 | 60 |
| 199 | Synergistically Assembled Li2S/FWNTs@Reduced Graphene Oxide Nanobundle Forest for Free-Standing High-Performance Li2S Cathodes. *Advanced Functional Materials*, **2017**, 27, 1700987 | 15.6 | 59 |
| 198 | Unique mesoporous spinel Li4Ti5O12 nanosheets as anode materials for lithium-ion batteries. *Journal of Power Sources*, **2015**, 297, 436-441 | 8.9 | 59 |
| 197 | Ru nanoassembly catalysts for hydrogen evolution and oxidation reactions in electrolytes at various pH values. *Applied Catalysis B: Environmental*, **2019**, 258, 117952 | 21.8 | 58 |
| 196 | Designing 3d dual transition metal electrocatalysts for oxygen evolution reaction in alkaline electrolyte: Beyond oxides. *Nano Energy*, **2020**, 77, 105162 | 17.1 | 58 |
| 195 | A theoretical mechanistic study on electrical conductivity enhancement of DMSO treated PEDOT:PSS. *Journal of Materials Chemistry C*, **2018**, 6, 5122-5131 | 7.1 | 57 |
| 194 | Graphene prepared by one-pot solvent exfoliation as a highly sensitive platform for electrochemical sensing. *Analytica Chimica Acta*, **2014**, 825, 26-33 | 6.6 | 57 |
| 193 | Emerging nanostructured carbon-based non-precious metal electrocatalysts for selective electrochemical CO2 reduction to CO. *Journal of Materials Chemistry A*, **2019**, 7, 25191-25202 | 13 | 57 |
| 192 | Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. *Angewandte Chemie - International Edition*, **2020**, 59, 21698-21705 | 16.4 | 55 |
| 191 | Flexible wire-shaped lithium-sulfur batteries with fibrous cathodes assembled via capillary action. *Nano Energy*, **2017**, 33, 325-333 | 17.1 | 54 |

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| 190 | Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO2 electroreduction. *Carbon*, **2019**, 150, 52-59 | 10.4 | 54 |
| 189 | Electrochemical preparation and characteristics of NiCoLaNi5 composite coatings as electrode materials for hydrogen evolution. *Materials Chemistry and Physics*, **2004**, 83, 307-314 | 4.4 | 54 |
| 188 | Efficient entrapment and catalytic conversion of lithium polysulfides on hollow metal oxide submicro-spheres as lithium-sulfur battery cathodes. *Nanoscale*, **2018**, 10, 5634-5641 | 7.7 | 53 |
| 187 | Structurally Defined 3D Nanographene Assemblies via Bottom-Up Chemical Synthesis for Highly Efficient Lithium Storage. *Advanced Materials*, **2016**, 28, 10250-10256 | 24 | 52 |
| 186 | Self-supported Pt nanoclusters via galvanic replacement from Cu2O nanocubes as efficient electrocatalysts. *Nanoscale*, **2013**, 5, 7397-402 | 7.7 | 51 |
| 185 | Single-Iron Site Catalysts with Self-Assembled Dual-size Architecture and Hierarchical Porosity for Proton-Exchange Membrane Fuel Cells. *Applied Catalysis B: Environmental*, **2020**, 279, 119400 | 21.8 | 51 |
| 184 | Pt alloy oxygen-reduction electrocatalysts: Synthesis, structure, and property. *Chinese Journal of Catalysis*, **2020**, 41, 739-755 | 11.3 | 50 |
| 183 | Heteroatom Polymer-Derived 3D High-Surface-Area and Mesoporous Graphene Sheet-Like Carbon for Supercapacitors. *ACS Applied Materials & Interfaces*, **2016**, 8, 30212-30224 | 9.5 | 50 |
| 182 | Nanostructured Carbon Based Heterogeneous Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. *ChemCatChem*, **2019**, 11, 5855-5874 | 5.2 | 49 |
| 181 | Hydrogen storage in a chemical bond stabilized Co9S8-graphene layered structure. *Nanoscale*, **2015**, 7, 20180-7 | 7.7 | 48 |
| 180 | Single Fe atoms anchored by short-range ordered nanographene boost oxygen reduction reaction in acidic media. *Nano Energy*, **2019**, 66, 104164 | 17.1 | 46 |
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