Zhi-You Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| 213 | 17,791 | 57 | 131 |
|-------------|-----------------------|---------|---------|
| papers | citations | h-index | g-index |
| 229 | 19,936 ext. citations | 9.9 | 6.66 |
| ext. papers | | avg, IF | L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 213 | N, P Dual-Doped Porous Carbon Nanosheets for High-Efficiency CO2 Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1880-1887 | 8.3 | 3 |
| 212 | Impact of Pore Structure on Two-Electron Oxygen Reduction Reaction in Nitrogen-Doped Carbon Materials: Rotating Ring-Disk Electrode vs. Flow Cell <i>ChemSusChem</i> , 2022 , e202102587 | 8.3 | 1 |
| 211 | Electrochemical synthesis of Tetrahexahedral Cu nanocrystals with high-index facets for efficient nitrate electroreduction. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 907, 116022 | 4.1 | 1 |
| 210 | P-d orbital hybridization induced by monodispersed Ga site on Pt3Mn nanocatalyst boosts ethanol electrooxidation <i>Angewandte Chemie - International Edition</i> , 2022 , | 16.4 | 15 |
| 209 | Revealing the concentration of hydrogen peroxide in fuel cell catalyst layers by an in-operando approach. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1918-1926 | 11.3 | 1 |
| 208 | Grain boundary enriched CuO nanobundle for efficient non-invasive glucose sensors/fuel cells. Journal of Colloid and Interface Science, 2021, 609, 139-148 | 9.3 | О |
| 207 | Effect of Acid Treatment on Electrocatalytic Performance of PtNi Catalyst. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 686-695 | 2.2 | O |
| 206 | A general strategy for synthesizing hierarchical architectures assembled by dendritic Pt-based nanoalloys for electrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 11573-11586 | 6.7 | 5 |
| 205 | Recent Advances in Electrocatalysts for Proton Exchange Membrane Fuel Cells and Alkaline Membrane Fuel Cells. <i>Advanced Materials</i> , 2021 , e2006292 | 24 | 71 |
| 204 | Interface-Rich Three-Dimensional Au-Doped PtBi Intermetallics as Highly Effective Anode Catalysts for Application in Alkaline Ethylene Glycol Fuel Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2103671 | 15.6 | 11 |
| 203 | Improved Stability of Octahedral PtCu by Rh Doping for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2021 , 8, 2425-2430 | 4.3 | 1 |
| 202 | An oxygen-blocking oriented multifunctional solidBlectrolyte interphase as a protective layer for a lithium metal anode in lithiumBxygen batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 1439-1448 | 35.4 | 13 |
| 201 | Structurally Disordered Phosphorus-Doped Pt as a Highly Active Electrocatalyst for an Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021 , 11, 355-363 | 13.1 | 25 |
| 200 | A General Carboxylate-Assisted Approach to Boost the ORR Performance of ZIF-Derived Fe/N/C Catalysts for Proton Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2009645 | 15.6 | 36 |
| 199 | Ultrathin PdAuBiTe Nanosheets as High-Performance Oxygen Reduction Catalysts for a Direct Methanol Fuel Cell Device. <i>Advanced Materials</i> , 2021 , 33, e2103383 | 24 | 13 |
| 198 | Generation Pathway of Hydroxyl Radical in Fe/N/C-Based Oxygen Reduction Electrocatalysts under Acidic Media. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7797-7803 | 6.4 | 5 |
| 197 | Double boosting single atom Fe®4 sites for high efficiency O2 and CO2 electroreduction. <i>Carbon</i> , 2021 , 182, 109-116 | 10.4 | 9 |

(2020-2021)

| 196 | Surface structure effects of electrocatalytic conversion of ethane on Pt single crystal electrodes. Journal of Electroanalytical Chemistry, 2021 , 896, 115252 | 4.1 | О | |
|-----|---|------|----|--|
| 195 | A Mild CO Etching Method To Tailor the Pore Structure of Platinum-Free Oxygen Reduction Catalysts in Proton Exchange Membrane Fuel Cells. <i>ACS Applied Materials & Diterfaces</i> , 2021 , 13, 45661-45669 | 9.5 | 7 | |
| 194 | High activity and durability of carbon-supported core-shell PtP @Pt/C catalyst for oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 2173-2180 | 11.3 | 3 | |
| 193 | Tetrahexahedral PdRh nanocrystals with tunable composition as a highly efficient electrocatalyst for ethylene glycol oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11049-11055 | 13 | 6 | |
| 192 | Highly efficient ethylene production via electrocatalytic hydrogenation of acetylene under mild conditions. <i>Nature Communications</i> , 2021 , 12, 7072 | 17.4 | 7 | |
| 191 | High-Index-Facet- and High-Surface-Energy Nanocrystals of Metals and Metal Oxides as Highly Efficient Catalysts. <i>Joule</i> , 2020 , 4, 2562-2598 | 27.8 | 43 | |
| 190 | Realizing a CO-free pathway and enhanced durability in highly dispersed Cu-doped PtBi nanoalloys towards methanol full electrooxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11564-11572 | 13 | 29 | |
| 189 | Hierarchically Porous Carbons Derived from Nonporous Coordination Polymers. <i>ACS Applied Materials & ACS Applied Materials & ACS Applied</i> | 9.5 | 12 | |
| 188 | Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe?N as Active Sites for Electrochemical Hydrazine Oxidation Reaction. <i>Small</i> , 2020 , 16, e2002203 | 11 | 19 | |
| 187 | Ultrasmall Pd-Cu-Pt Trimetallic Twin Icosahedrons Boost the Electrocatalytic Performance of Glycerol Oxidation at the Operating Temperature of Fuel Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1908235 | 15.6 | 50 | |
| 186 | Graphene-covered FePc as a model of the encapsulated type of catalyst for the oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2020 , 112, 106670 | 5.1 | 5 | |
| 185 | First-principles microkinetics simulations of electrochemical reduction of CO2 over Cu catalysts. <i>Electrochimica Acta</i> , 2020 , 335, 135665 | 6.7 | 14 | |
| 184 | KOH-doped polybenzimidazole membrane for direct hydrazine fuel cell. <i>Journal of Colloid and Interface Science</i> , 2020 , 563, 27-32 | 9.3 | 15 | |
| 183 | Hollow PtCu octahedral nanoalloys: Efficient bifunctional electrocatalysts towards oxygen reduction reaction and methanol oxidation reaction by regulating near-surface composition. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 244-251 | 9.3 | 33 | |
| 182 | Intermetallic PtBi Nanoplates with High Catalytic Activity towards Electro-oxidation of Formic Acid and Glycerol. <i>ChemElectroChem</i> , 2020 , 7, 239-245 | 4.3 | 20 | |
| 181 | Fluorescence detection of hydroxyl radical generated from oxygen reduction on Fe/N/C catalyst. <i>Science China Chemistry</i> , 2020 , 63, 198-202 | 7.9 | 14 | |
| 180 | ZIF-derived CoNC ORR catalyst with high performance in proton exchange membrane fuel cells. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 855-860 | 3.6 | 12 | |
| 179 | Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. <i>Electrochimica Acta</i> , 2020 , 358, 136902 | 6.7 | 1 | |

| 178 | Hydrazine Oxidation Reaction: Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe?N4 as Active Sites for Electrochemical Hydrazine Oxidation Reaction (Small 31/2020). <i>Small</i> , 2020 , 16, 2070171 | 11 | 2 |
|-----|--|------------------|------|
| 177 | Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. Science Advances, 2020, 6, ea | b a 9.733 | 1 27 |
| 176 | Highly Reversible O2 Conversions by Coupling LiO2 Intermediate through a Dual-Site Catalyst in Li-O2 Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001592 | 21.8 | 12 |
| 175 | A Lattice-Oxygen-Involved Reaction Pathway to Boost Urea Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16820-16825 | 16.4 | 85 |
| 174 | High Catalytic Activity of Pt(100) for CH4 Electrochemical Conversion. ACS Catalysis, 2019, 9, 10159-101 | 1645,.1 | 8 |
| 173 | The construction of integrated Si-based micro proton exchange membrane fuel cells with improved performances. <i>Nano Energy</i> , 2019 , 61, 604-610 | 17.1 | 6 |
| 172 | A functionalized membrane for lithiumBxygen batteries to suppress the shuttle effect of redox mediators. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14260-14270 | 13 | 24 |
| 171 | Synergy between Plasmonic and Electrocatalytic Activation of Methanol Oxidation on Palladium-Silver Alloy Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8794-8798 | 16.4 | 66 |
| 170 | Pd Nanocrystals with Continuously Tunable High-Index Facets as a Model Nanocatalyst. <i>ACS Catalysis</i> , 2019 , 9, 3144-3152 | 13.1 | 41 |
| 169 | Polyhedron-Assembled Ternary PtCuCo Nanochains: Integrated Functions Enhance the Electrocatalytic Performance of Methanol Oxidation at Elevated Temperature. <i>ACS Applied Materials & Discrete ACS Applied & Discrete ACS Applied & Discrete ACS ACS ACS & Discrete ACS ACS & Discrete ACS</i> | 9.5 | 26 |
| 168 | Trimetallic palladium-copper-cobalt alloy wavy nanowires improve ethanol electrooxidation in alkaline medium. <i>Nanoscale</i> , 2019 , 11, 19448-19454 | 7.7 | 21 |
| 167 | Excavated cubic platinum-iridium alloy nanocrystals with high-index facets as highly efficient electrocatalysts in N fixation to NH. <i>Chemical Communications</i> , 2019 , 55, 9335-9338 | 5.8 | 28 |
| 166 | Theory on optimizing the activity of electrocatalytic proton coupled electron transfer reactions. <i>Journal of Catalysis</i> , 2019 , 376, 17-24 | 7.3 | 9 |
| 165 | Hierarchically porous carbons as supports for fuel cell electrocatalysts with atomically dispersed Fe-N moieties. <i>Chemical Science</i> , 2019 , 10, 8236-8240 | 9.4 | 23 |
| 164 | Surface composition-tunable octahedral PtCu nanoalloys advance the electrocatalytic performance on methanol and ethanol oxidation. <i>Science China Materials</i> , 2019 , 62, 1877-1887 | 7.1 | 22 |
| 163 | Superior Selectivity and Tolerance towards Metal-Ion Impurities of a Fe/N/C Catalyst for CO Reduction. <i>ChemSusChem</i> , 2019 , 12, 3988-3995 | 8.3 | 12 |
| 162 | A Lattice-Oxygen-Involved Reaction Pathway to Boost Urea Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 16976-16981 | 3.6 | 15 |
| 161 | Advances in Active Site Structure of Carbon-Based Non-Precious Metal Catalysts for Oxygen Reduction Reaction. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019 , 35, 472-485 | 3.8 | 23 |

(2018-2019)

| 160 | Electrochemical CO reduction on Cu and Au electrodes studied using in situ sum frequency generation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25047-25053 | 3.6 | 15 | |
|-----|---|------|----|--|
| 159 | Excavated RhNi alloy nanobranches enable superior CO-tolerance and CO2 selectivity at low potentials toward ethanol electro-oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26266-26271 | 13 | 9 | |
| 158 | Versatile, Robust, and Facile Approach for in Situ Monitoring Electrocatalytic Processes through Liquid Electrochemical NMR Spectroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 1686-1691 | 7.8 | 14 | |
| 157 | Promoting Ethylene Selectivity from CO Electroreduction on CuO Supported onto CO Capture Materials. <i>ChemSusChem</i> , 2018 , 11, 881-887 | 8.3 | 36 | |
| 156 | Fluorescence enhancement mediated by high-index-faceted Pt nanocrystals: roles of crystal structures. <i>Chemical Communications</i> , 2018 , 54, 2016-2019 | 5.8 | 2 | |
| 155 | Ammonia electrooxidation on dendritic Pt nanostructures in alkaline solutions investigated by in-situ FTIR spectroscopy and online electrochemical mass spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 495-501 | 4.1 | 19 | |
| 154 | Liquid-inlet online electrochemical mass spectrometry for the in operando monitoring of direct ethanol fuel cells. <i>Electrochemistry Communications</i> , 2018 , 87, 91-95 | 5.1 | 5 | |
| 153 | Effects of atom arrangement and thickness of Pt atomic layers on Pd nanocrystals for electrocatalysis. <i>Electrochimica Acta</i> , 2018 , 271, 519-525 | 6.7 | 6 | |
| 152 | Three-Dimensional Networks of S-Doped Fe/N/C with Hierarchical Porosity for Efficient Oxygen Reduction in Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Materials & Company: Interfaces</i> , 2018 , 10, 14602-14613 | 9.5 | 40 | |
| 151 | Tuning Electrochemical Properties of Li-Rich Layered Oxide Cathodes by Adjusting Co/Ni Ratios and Mechanism Investigation Using in situ X-ray Diffraction and Online Continuous Flow Differential Electrochemical Mass Spectrometry. <i>ACS Applied Materials & Differential Ramp; Interfaces</i> , 2018 , 10, 12666-12677 | 9.5 | 42 | |
| 150 | Rational Design and Synthesis of Low-Temperature Fuel Cell Electrocatalysts. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 54-83 | 29.3 | 72 | |
| 149 | Identifying the Active Site of N-Doped Graphene for Oxygen Reduction by Selective Chemical Modification. <i>ACS Energy Letters</i> , 2018 , 3, 986-991 | 20.1 | 68 | |
| 148 | Surface Fluorination to Boost the Stability of the Fe/N/C Cathode in Proton Exchange Membrane Fuel Cells. <i>ChemElectroChem</i> , 2018 , 5, 1914-1921 | 4.3 | 41 | |
| 147 | Constructing canopy-shaped molecular architectures to create local Pt surface sites with high tolerance to H2S and CO for hydrogen electrooxidation. <i>Energy and Environmental Science</i> , 2018 , 11, 166-171 | 35.4 | 20 | |
| 146 | Optimum Cu nanoparticle catalysts for CO2 hydrogenation towards methanol. <i>Nano Energy</i> , 2018 , 43, 200-209 | 17.1 | 91 | |
| 145 | High selectivity PtRh/RGO catalysts for ethanol electro-oxidation at low potentials: Enhancing the efficiency of CO2 from alcoholic groups. <i>Electrochimica Acta</i> , 2018 , 292, 208-216 | 6.7 | 29 | |
| 144 | Controlling Reversible Expansion of Li2O2 Formation and Decomposition by Modifying Electrolyte in Li-O2 Batteries. <i>CheM</i> , 2018 , 4, 2685-2698 | 16.2 | 31 | |
| 143 | Comparative Study of the Oxygen Reduction Reaction on Pyrolyzed FePc in Acidic and Alkaline Media. <i>ChemElectroChem</i> , 2018 , 5, 3946-3952 | 4.3 | 14 | |

| 142 | Comparative investigation of CO2 and oxygen reduction on Fe/N/C catalysts. <i>Electrochemistry Communications</i> , 2018 , 97, 82-86 | 5.1 | 11 |
|-----|--|---------------------------|-----|
| 141 | Nickel Complexes with Non-innocent Ligands as Highly Active Electrocatalysts for Hydrogen Evolution. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 1161-1164 | 4.9 | 5 |
| 140 | Intrinsic composition and electronic effects of multicomponent platinum nanocatalysts with high activity and selectivity for ethanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11270-1 | 1 ¹ 280 | 22 |
| 139 | Suppression Effect of Small Organic Molecules on Oxygen Reduction Activity of Fe/N/C Catalysts. <i>ACS Energy Letters</i> , 2018 , 3, 1396-1401 | 20.1 | 24 |
| 138 | Selective formation of C2 products from the electrochemical conversion of CO2 on CuO-derived copper electrodes comprised of nanoporous ribbon arrays. <i>Catalysis Today</i> , 2017 , 288, 18-23 | 5.3 | 21 |
| 137 | Shape transformation of {hk0}-faceted Pt nanocrystals from a tetrahexahedron into a truncated ditetragonal prism. <i>Chemical Communications</i> , 2017 , 53, 3236-3238 | 5.8 | 14 |
| 136 | Constructing a Triple-Phase Interface in Micropores to Boost Performance of Fe/N/C Catalysts for Direct Methanol Fuel Cells. <i>ACS Energy Letters</i> , 2017 , 2, 645-650 | 20.1 | 61 |
| 135 | A breakthrough in electrocatalysis of CO2 conversion. <i>National Science Review</i> , 2017 , 4, 155-156 | 10.8 | 5 |
| 134 | Fe, N, S-doped porous carbon as oxygen reduction reaction catalyst in acidic medium with high activity and durability synthesized using CaCl 2 as template. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 673-6 | 5 <mark>82</mark> .3 | 16 |
| 133 | Nanocrystal Catalysts of High-Energy Surface and Activity. <i>Studies in Surface Science and Catalysis</i> , 2017 , 177, 439-475 | 1.8 | 2 |
| 132 | In Situ Monitoring Potential-Dependent Electrochemical Process by Liquid NMR Spectroelectrochemical Determination: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2017 , 89, 3810- | <i>3</i> 8 ⁸ 3 | 16 |
| 131 | Octahedral PtCu alloy nanocrystals with high performance for oxygen reduction reaction and their enhanced stability by trace Au. <i>Nano Energy</i> , 2017 , 33, 65-71 | 17.1 | 106 |
| 130 | Nitrogen-doped carbon nanotubes with encapsulated Fe nanoparticles as efficient oxygen reduction catalyst for alkaline membrane direct ethanol fuel cells. <i>Carbon</i> , 2017 , 125, 605-613 | 10.4 | 24 |
| 129 | Quantifying defect-enhanced chemical functionalization of single-layer graphene and its application in supramolecular assembly. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24257-24262 | 13 | 8 |
| 128 | Electronic Structures of Divinylchalcogenophene-Bridged Biruthenium Complexes: Exploring Trends from O to Te. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5015-5026 | 2.3 | 9 |
| 127 | Preparation and utilization of a sub-5 nm PbO2 colloid as an excellent co-catalyst for Pt-based catalysts toward ethanol electro-oxidation. <i>New Journal of Chemistry</i> , 2017 , 41, 12123-12130 | 3.6 | 11 |
| 126 | Designing Pt-Based Electrocatalysts with High Surface Energy. ACS Energy Letters, 2017, 2, 1892-1900 | 20.1 | 36 |
| 125 | Electrocatalytic reduction of CO2 to CO with 100% faradaic efficiency by using pyrolyzed zeolitic imidazolate frameworks supported on carbon nanotube networks. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24867-24873 | 13 | 52 |

(2016-2017)

| 12 | Cu overlayers on tetrahexahedral Pd nanocrystals with high-index facets for CO electroreduction to alcohols. <i>Chemical Communications</i> , 2017 , 53, 8085-8088 | 5.8 | 49 |
|-----|--|-------------------|-----|
| 12 | Seeds and Potentials Mediated Synthesis of High-Index Faceted Gold Nanocrystals with Enhanced Electrocatalytic Activities. <i>Langmuir</i> , 2017 , 33, 6991-6998 | 4 | 22 |
| 12 | 2 Modeling Fe/N/C Catalysts in Monolayer Graphene. <i>ACS Catalysis</i> , 2017 , 7, 139-145 | 13.1 | 79 |
| 12: | Networking Pyrolyzed Zeolitic Imidazolate Frameworks by Carbon Nanotubes Improves Conductivity and Enhances Oxygen-Reduction Performance in Polymer-Electrolyte-Membrane Fuel Cells. <i>Advanced Materials</i> , 2017 , 29, 1604556 | 24 | 119 |
| 120 | Overpotential-dependent shape evolution of gold nanocrystals grown in a deep eutectic solvent. Nano Research, 2016 , 9, 3547-3557 | 10 | 25 |
| 119 | Influence of transition metal modification of oxide-derived Cu electrodes in electroreduction of CO2. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1070-1075 | 11.3 | 12 |
| 118 | Structure Design and Performance Tuning of Nanomaterials for Electrochemical Energy Conversion and Storage. <i>Accounts of Chemical Research</i> , 2016 , 49, 2569-2577 | 24.3 | 111 |
| 11, | Insight into the different ORR catalytic activity of Fe/N/C between acidic and alkaline media: Protonation of pyridinic nitrogen. <i>Electrochemistry Communications</i> , 2016 , 73, 71-74 | 5.1 | 84 |
| 11(| PdSn nanocatalysts supported on carbon nanotubes synthesized in deep eutectic solvents with high activity for formic acid electrooxidation. <i>RSC Advances</i> , 2016 , 6, 60400-60406 | 3.7 | 31 |
| 11 | Electrochemically Shape-Controlled Synthesis of Pd Concave-Disdyakis Triacontahedra in Deep Eutectic Solvent. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15569-15577 | 3.8 | 34 |
| 114 | Interfacial electronic effects control the reaction selectivity of platinum catalysts. <i>Nature Materials</i> , 2016 , 15, 564-9 | 27 | 413 |
| 113 | Interfacial Effects in PdAg Bimetallic Nanosheets for Selective Dehydrogenation of Formic Acid. ChemNanoMat, 2016 , 2, 28-32 | 3.5 | 57 |
| 112 | Tuning Pt-skin to Ni-rich surface of Pt3Ni catalysts supported on porous carbon for enhanced oxygen reduction reaction and formic electro-oxidation. <i>Nano Energy</i> , 2016 , 19, 198-209 | 17.1 | 83 |
| 11: | Highly active Fe, N co-doped graphene nanoribbon/carbon nanotube composite catalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016 , 222, 1922-1930 | 6.7 | 23 |
| 110 | Explicit Detection of the Mechanism of Platinum Nanoparticle Shape Control by Polyvinylpyrrolidone. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 7532-7542 | 3.8 | 29 |
| 10 | Electrochemically Seed-Mediated Synthesis of Sub-10 nm Tetrahexahedral Pt Nanocrystals Supported on Graphene with Improved Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5753-6 | 16.4 | 84 |
| 10 | Probing the Electronic Structure of Heterogeneous Metal Interfaces by Transition Metal Shelled Gold Nanoparticle-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20684-206 | 6 3 91 | 23 |
| 10 | Hydrogen adsorption-mediated synthesis of concave Pt nanocubes and their enhanced electrocatalytic activity. <i>Nanoscale</i> , 2016 , 8, 11559-64 | 7.7 | 33 |

| 106 | Combined EC-NMR and In Situ FTIR Spectroscopic Studies of Glycerol Electrooxidation on Pt/C, PtRu/C, and PtRh/C. <i>ACS Catalysis</i> , 2016 , 6, 7686-7695 | 13.1 | 67 |
|-----|---|------|-----|
| 105 | A mesoporous Fe/N/C ORR catalyst for polymer electrolyte membrane fuel cells. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1103-1108 | 11.3 | 21 |
| 104 | Aminothiazole-derived N,S,Fe-doped graphene nanosheets as high performance electrocatalysts for oxygen reduction. <i>Chemical Communications</i> , 2015 , 51, 17092-5 | 5.8 | 68 |
| 103 | S-Doping of an Fe/N/C ORR Catalyst for Polymer Electrolyte Membrane Fuel Cells with High Power Density. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9907-10 | 16.4 | 335 |
| 102 | S-Doping of an Fe/N/C ORR Catalyst for Polymer Electrolyte Membrane Fuel Cells with High Power Density. <i>Angewandte Chemie</i> , 2015 , 127, 10045-10048 | 3.6 | 116 |
| 101 | Shaping Single-Crystalline Trimetallic PtPdRh Nanocrystals toward High-Efficiency CI Splitting of Ethanol in Conversion to CO2. <i>ACS Catalysis</i> , 2015 , 5, 1995-2008 | 13.1 | 63 |
| 100 | One-pot synthesis of PdPt@Pd coreBhell nanocrystals with enhanced electrocatalytic activity for formic acid oxidation. <i>CrystEngComm</i> , 2014 , 16, 2560-2564 | 3.3 | 12 |
| 99 | Pt[Iu alloy with high density of surface Pt defects for efficient catalysis of breaking C[I bond in ethanol. <i>Electrochimica Acta</i> , 2014 , 125, 29-37 | 6.7 | 24 |
| 98 | RhPt flowerlike bimetallic nanocrystals with tunable composition as superior electrocatalysts for methanol oxidation. <i>Langmuir</i> , 2014 , 30, 5711-5 | 4 | 29 |
| 97 | Facile synthesis of PdPt nanoalloys with sub-2.0 nm islands as robust electrocatalysts for methanol oxidation. <i>Chemical Communications</i> , 2014 , 50, 13551-4 | 5.8 | 33 |
| 96 | Electrochemical synthesis of tetrahexahedral rhodium nanocrystals with extraordinarily high surface energy and high electrocatalytic activity. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5097-101 | 16.4 | 106 |
| 95 | Electrocatalysis of Ethanol on a Pd Electrode in Alkaline Media: An in Situ Attenuated Total Reflection Surface-Enhanced Infrared Absorption Spectroscopy Study. <i>ACS Catalysis</i> , 2014 , 4, 798-803 | 13.1 | 134 |
| 94 | Pyrolyzed FeNC Composite as an Efficient Non-precious Metal Catalyst for Oxygen Reduction Reaction in Acidic Medium. <i>ACS Catalysis</i> , 2014 , 4, 3928-3936 | 13.1 | 251 |
| 93 | Determination of adsorbed species of hypophosphite electrooxidation on Ni electrode by in situ infrared with shell-isolated nanoparticle-enhanced Raman spectroscopy. <i>Electrochemistry Communications</i> , 2014 , 48, 5-9 | 5.1 | 4 |
| 92 | Synthesis of Precious Metal Nanoparticles with High Surface Energy and High Electrocatalytic Activity. <i>Advances in Electrochemical Science and Engineering</i> , 2014 , 221-258 | | |
| 91 | Phenylenediamine-based FeN(x)/C catalyst with high activity for oxygen reduction in acid medium and its active-site probing. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10882-5 | 16.4 | 499 |
| 90 | Electrochemical Synthesis of Tetrahexahedral Rhodium Nanocrystals with Extraordinarily High Surface Energy and High Electrocatalytic Activity. <i>Angewandte Chemie</i> , 2014 , 126, 5197-5201 | 3.6 | 8 |
| 89 | A comparative study of CO adsorption on tetrahexahedral Pt nanocrystals and interrelated Pt single crystal electrodes by using cyclic voltammetry and in situ FTIR spectroscopy. <i>Faraday Discussions</i> , 2014 , 176, 409-28 | 3.6 | 5 |

Kinetics of thiocyanate orientation conversion on Pt surface studied by in situ step-scan time-resolved microscope FTIR spectroscopy. *Science Bulletin*, **2013**, 58, 622-626

| 87 | HD kinetic isotope effects of alcohol electrooxidation on Au, Pd and Pt electrodes in alkaline solutions. <i>Electrochemistry Communications</i> , 2013 , 37, 49-52 | 5.1 | 20 |
|----|---|---------------------|-----|
| 86 | Electrodeposition of nanostructured CoNi thin films and their anomalous infrared properties. <i>Electrochimica Acta</i> , 2013 , 113, 694-705 | 6.7 | 14 |
| 85 | Pt-group bimetallic nanocrystals with high-index facets as high performance electrocatalysts. <i>Faraday Discussions</i> , 2013 , 162, 77-89 | 3.6 | 46 |
| 84 | Electrochemically shape-controlled synthesis in deep eutectic solvents: triambic icosahedral platinum nanocrystals with high-index facets and their enhanced catalytic activity. <i>Chemical Communications</i> , 2013 , 49, 11152-4 | 5.8 | 87 |
| 83 | In situ FTIR spectroscopic studies of ethylene glycol electrooxidation on Pd electrode in alkaline solution: The effects of concentration. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 688, 165-171 | 4.1 | 33 |
| 82 | Platinum nanoparticles functionalized with acetylene derivatives: Electronic conductivity and electrocatalytic activity in oxygen reduction. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 688, 143-150 | 4.1 | 29 |
| 81 | Infrared spectroelectrochemical study of dissociation and oxidation of methanol at a palladium electrode in alkaline solution. <i>Langmuir</i> , 2013 , 29, 1709-16 | 4 | 61 |
| 80 | Synthesis of convex hexoctahedral Pt micro/nanocrystals with high-index facets and electrochemistry-mediated shape evolution. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18754 | 1- 7 6.4 | 94 |
| 79 | Electrochemically shape-controlled synthesis in deep eutectic solvents of Pt nanoflowers with enhanced activity for ethanol oxidation. <i>Electrochimica Acta</i> , 2012 , 76, 468-474 | 6.7 | 90 |
| 78 | Electrochemically Shape-Controlled Synthesis in Deep Eutectic Solvents New Route to Prepare Pt Nanocrystals Enclosed by High-Index Facets with High Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2040-2044 | 3.8 | 108 |
| 77 | Butylphenyl-functionalized Pt nanoparticles as CO-resistant electrocatalysts for formic acid oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1412-7 | 3.6 | 24 |
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| 10 | Abnormal Infrared Effects of Nanostructured Rhodium Thin Films for CO Adsorption at Solid/Gas Interfaces. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11778-11783 | 3.4 | 21 |
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