

Yan-Xia Jiang

List of Publications by Year in descending order

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71
papers

3,715
citations

126907

33
h-index

128289

60
g-index

72
all docs

72
docs citations

72
times ranked

5071
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Boosting the ORR performance of Fe-N/C catalyst via increasing the density and modifying the electronic structure of Fe-NX active sites. <i>Electrochimica Acta</i> , 2022, 403, 139604. | 5.2 | 24 |
| 2 | Electrochemical and in situ FTIR spectroscopic studies of gentian violet as a novel leveler in through-holes metallization for printed circuit board applications. <i>Electrochimica Acta</i> , 2022, 410, 140018. | 5.2 | 19 |
| 3 | Experimental and DFT studies of oxygen reduction reaction promoted by binary site Fe/Co@N@C catalyst in acid. <i>Journal of Electroanalytical Chemistry</i> , 2022, 914, 116322. | 3.8 | 4 |
| 4 | Tuning atomic Pt site surface on PtAu alloy toward electro-oxidation of formic acid. <i>Materials Today Energy</i> , 2022, 27, 101028. | 4.7 | 14 |
| 5 | Seizing gaseous Fe ²⁺ to densify O ₂ -accessible Fe@N ₄ sites for high-performance proton exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2022, 15, 3033-3040. | 30.8 | 49 |
| 6 | MOF-derived single site catalysts with Electron-Rich Fe-N ₄ sites for efficient elimination of trichloroacetamide DBP. <i>Chemical Engineering Journal</i> , 2022, 446, 137060. | 12.7 | 11 |
| 7 | Revealing the optimal configuration for synergy effect of metal nanoparticles and MN ₄ sites for oxygen reduction reaction. <i>Nano Energy</i> , 2022, 100, 107440. | 16.0 | 8 |
| 8 | Nano-geometric deformation and synergistic Co nanoparticles@Co-N ₄ composite sites for proton exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2021, 14, 5958-5967. | 30.8 | 86 |
| 9 | Engineering the Near-Surface of PtRu ₃ Nanoparticles to Improve Hydrogen Oxidation Activity in Alkaline Electrolyte. <i>Small</i> , 2021, 17, e2006698. | 10.0 | 41 |
| 10 | Stepwise pyrolysis treatment as an efficient strategy to enhance the stability performance of Fe-NX/C electrocatalyst towards oxygen reduction reaction and proton exchange membrane fuel cell. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120311. | 20.2 | 76 |
| 11 | Engineering PtRu bimetallic nanoparticles with adjustable alloying degree for methanol electrooxidation: Enhanced catalytic performance. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118345. | 20.2 | 129 |
| 12 | Self-Template Synthesis of Atomically Dispersed Fe/N-Codoped Nanocarbon as Efficient Bifunctional Alkaline Oxygen Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2020, 3, 625-634. | 5.1 | 19 |
| 13 | Construction of Highly Active Metal-Containing Nanoparticles and FeCo@N ₄ Composite Sites for the Acidic Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2020, 132, 22160-22163. | 2.0 | 43 |
| 14 | Construction of Highly Active Metal-Containing Nanoparticles and FeCo@N ₄ Composite Sites for the Acidic Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21976-21979. | 13.8 | 157 |
| 15 | Interfacial Structure of Water as a New Descriptor of the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22397-22402. | 13.8 | 125 |
| 16 | Interfacial Structure of Water as a New Descriptor of the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2020, 132, 22583-22588. | 2.0 | 11 |
| 17 | Random alloy and intermetallic nanocatalysts in fuel cell reactions. <i>Nanoscale</i> , 2020, 12, 19557-19581. | 5.6 | 27 |
| 18 | Facile Chemical Analysis of Live Cell Activities by Fourier Transform Infrared (FTIR) Spectroscopy in the Transmission Mode. <i>Vibrational Spectroscopy</i> , 2020, 109, 103068. | 2.2 | 4 |

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|----|---|------|-----------|
| 19 | Facile Preparation of Carbon Shells-Coated O-Doped Molybdenum Carbide Nanoparticles as High Selective Electrocatalysts for Nitrogen Reduction Reaction under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31869-31877. | 8.0 | 78 |
| 20 | Does the oxophilic effect serve the same role for hydrogen evolution/oxidation reaction in alkaline media?. <i>Nano Energy</i> , 2019, 62, 601-609. | 16.0 | 68 |
| 21 | The Quasi-Atom Catalyst: Hollow PtCo@Atom Pt ₁ on Nitrogen-Doped Carbon toward Superior Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1807340. | 14.9 | 97 |
| 22 | Ordered platinum-bismuth intermetallic clusters with Pt-skin for a highly efficient electrochemical ethanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5214-5220. | 10.3 | 48 |
| 23 | Molybdenum Carbide Prepared by a Salt Sealing Approach as an Electrocatalyst for Enhanced Hydrogen Evolution Reaction. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2019, 35, 523-530. | 4.9 | 6 |
| 24 | Rational Design and Synthesis of Low-Temperature Fuel Cell Electrocatalysts. <i>Electrochemical Energy Reviews</i> , 2018, 1, 54-83. | 25.5 | 87 |
| 25 | Flavins mediate extracellular electron transfer in Gram-positive <i>Bacillus megaterium</i> strain LLD-1. <i>Bioelectrochemistry</i> , 2018, 119, 196-202. | 4.6 | 61 |
| 26 | High selectivity PtRh/RGO catalysts for ethanol electro-oxidation at low potentials: Enhancing the efficiency of CO ₂ from alcoholic groups. <i>Electrochimica Acta</i> , 2018, 292, 208-216. | 5.2 | 44 |
| 27 | Interactions between iron mineral-humic complexes and hexavalent chromium and the corresponding bio-effects. <i>Environmental Pollution</i> , 2018, 241, 265-271. | 7.5 | 34 |
| 28 | Engineering phase and surface composition of Pt ₃ Co nanocatalysts: A strategy for enhancing CO tolerance. <i>Nano Energy</i> , 2017, 34, 224-232. | 16.0 | 84 |
| 29 | Nanocrystal Catalysts of High-Energy Surface and Activity. <i>Studies in Surface Science and Catalysis</i> , 2017, 177, 439-475. | 1.5 | 2 |
| 30 | Platinum-Cobalt Bimetallic Nanoparticles with Pt Skin for Electro-Oxidation of Ethanol. <i>ACS Catalysis</i> , 2017, 7, 892-895. | 11.2 | 89 |
| 31 | Interaction between in vivo bioluminescence and extracellular electron transfer in <i>Shewanella woodyi</i> via charge and discharge. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1746-1750. | 2.8 | 19 |
| 32 | Structure Design and Performance Tuning of Nanomaterials for Electrochemical Energy Conversion and Storage. <i>Accounts of Chemical Research</i> , 2016, 49, 2569-2577. | 15.6 | 131 |
| 33 | In-situ FTIR spectroscopic studies of electrocatalytic reactions and processes. <i>Nano Energy</i> , 2016, 29, 414-427. | 16.0 | 108 |
| 34 | A comparative investigation of metal-support interactions on the catalytic activity of Pt nanoparticles for ethanol oxidation in alkaline medium. <i>Journal of Power Sources</i> , 2016, 311, 81-90. | 7.8 | 45 |
| 35 | One-pot synthesis of single-crystalline PtPb nanodendrites with enhanced activity for electrooxidation of formic acid. <i>Chemical Communications</i> , 2016, 52, 4493-4496. | 4.1 | 25 |
| 36 | Tuning Pt-skin to Ni-rich surface of Pt ₃ Ni catalysts supported on porous carbon for enhanced oxygen reduction reaction and formic electro-oxidation. <i>Nano Energy</i> , 2016, 19, 198-209. | 16.0 | 94 |

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|----|--|------|-----------|
| 37 | CeO ₂ nanorods with high energy surfaces as electrocatalytical supports for methanol electrooxidation. <i>Electrochimica Acta</i> , 2015, 182, 1078-1084. | 5.2 | 21 |
| 38 | PtBi intermetallic and PtBi intermetallic with the Bi-rich surface supported on porous graphitic carbon towards HCOOH electro-oxidation. <i>Electrochimica Acta</i> , 2015, 162, 254-262. | 5.2 | 68 |
| 39 | Electrochemical in situ FTIR spectroscopy studies directly extracellular electron transfer of <i>Shewanella oneidensis</i> MR-1. <i>Electrochimica Acta</i> , 2015, 170, 131-139. | 5.2 | 27 |
| 40 | TEM study of fivefold twined gold nanocrystal formation mechanism. <i>Materials Letters</i> , 2014, 116, 299-303. | 2.6 | 19 |
| 41 | High activity of cubic PtRh alloys supported on graphene towards ethanol electrooxidation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13662. | 2.8 | 85 |
| 42 | Shape Evolution of Platinum Nanocrystals by Electrochemistry. <i>Electrochimica Acta</i> , 2014, 140, 345-351. | 5.2 | 16 |
| 43 | Electrochemically shape-controlled synthesis of trapezohedral platinum nanocrystals with high electrocatalytic activity. <i>Chemical Communications</i> , 2012, 48, 9531. | 4.1 | 95 |
| 44 | High activity of PtBi intermetallics supported on mesoporous carbon towards HCOOH electro-oxidation. <i>Electrochemistry Communications</i> , 2012, 25, 105-108. | 4.7 | 41 |
| 45 | Preparation of Pt nanoparticles supported on ordered mesoporous carbon FDU-15 for electrocatalytic oxidation of CO and methanol. <i>Electrochimica Acta</i> , 2012, 67, 127-132. | 5.2 | 29 |
| 46 | Ordered mesoporous carbon/sulfur nanocomposite of high performances as cathode for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2011, 56, 9549-9555. | 5.2 | 329 |
| 47 | Cyclic voltammetric and <i>in situ</i> FTIR spectroscopic studies of redox of nitric oxide and carbon monoxide coadlayers on Pt electrode. <i>Scientia Sinica Chimica</i> , 2011, 41, 1482-1488. | 0.4 | 0 |
| 48 | Self-Assembled CoPt Nanoparticles Monolayer Film and Its IR Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 8265-8270. | 0.9 | 1 |
| 49 | Direct Electrochemistry and Electrocatalysis of Myoglobin Immobilized on Graphene-TAB Ionic Liquid Nanocomposite Film. <i>Electroanalysis</i> , 2010, 22, 2297-2302. | 2.9 | 16 |
| 50 | In situ FTIR spectroscopic studies of (bi)sulfate adsorption on electrodes of Pt nanoparticles supported on different substrates. <i>Electrochimica Acta</i> , 2010, 55, 2065-2072. | 5.2 | 22 |
| 51 | Electrocatalytic reduction of nitric oxide on Pt nanocrystals of different shape in sulfuric acid solutions. <i>Electrochimica Acta</i> , 2010, 55, 8273-8279. | 5.2 | 21 |
| 52 | Synthesis and Durability of Highly Dispersed Platinum Nanoparticles Supported on Ordered Mesoporous Carbon and Their Electrocatalytic Properties for Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19055-19061. | 3.1 | 22 |
| 53 | Tuning the Shape and Catalytic Activity of Fe Nanocrystals from Rhombic Dodecahedra and Tetragonal Bipyramids to Cubes by Electrochemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 10860-10862. | 13.7 | 94 |
| 54 | A novel PEO-based composite solid-state polymer electrolyte with methyl group-functionalized SBA-15 filler for rechargeable lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 353-361. | 2.5 | 40 |

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|----|--|------|-----------|
| 55 | Shape-Controlled Synthesis of Gold Nanoparticles in Deep Eutectic Solvents for Studies of Structure-Functionality Relationships in Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9100-9103. | 13.8 | 352 |
| 56 | Silver Nanoparticles Confined in SBA-15 Mesoporous Silica and the Application as a Sensor for Detecting Hydrogen Peroxide. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-10. | 2.7 | 20 |
| 57 | LiCoO ₂ electrode/electrolyte interface of Li-ion batteries investigated by electrochemical impedance spectroscopy. <i>Science in China Series B: Chemistry</i> , 2007, 50, 776-783. | 0.8 | 22 |
| 58 | An electrochemical impedance spectroscopic study of the electronic and ionic transport properties of LiCoO ₂ cathode. <i>Science Bulletin</i> , 2007, 52, 1187-1195. | 1.7 | 21 |
| 59 | A novel composite microporous polymer electrolyte prepared with molecule sieves for Li-ion batteries. <i>Journal of Power Sources</i> , 2006, 160, 1320-1328. | 7.8 | 78 |
| 60 | Studies of the first lithiation of graphite materials by electrochemical impedance spectroscopy. <i>Science Bulletin</i> , 2006, 51, 1055-1059. | 1.7 | 15 |
| 61 | Self-Assembly Film of Zeolite Y Nanocrystals Loading Palladium on an Au Electrode for Electrochemical Applications. <i>Electroanalysis</i> , 2006, 18, 1173-1178. | 2.9 | 13 |
| 62 | Anomalous IR optical properties of aggregates of Pd nanoparticles induced through electrochemical cyclic voltammetry. <i>Electrochimica Acta</i> , 2005, 50, 3093-3099. | 5.2 | 4 |
| 63 | Electrocatalytic oxidation of carbon monoxide and methanol at Pt nanoparticles confined in SBA-15: voltammetric and in situ infrared spectroscopic studies. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 363-370. | 2.5 | 29 |
| 64 | FTIR Studies of Zeolite Matrix Effects on the Properties of Palladium Clusters Confined in the Supercages of NaX and NaY. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7637-7642. | 2.6 | 19 |
| 65 | Special IR properties of palladium nanoparticles and their aggregations in CO molecular probe infrared spectroscopy. <i>Science Bulletin</i> , 2004, 49, 1581-1585. | 1.7 | 1 |
| 66 | Enhanced IR absorption of CO adsorbed on Pd nanoparticles embedded in the mesoporous molecular sieve SBA-15. <i>Journal of Electroanalytical Chemistry</i> , 2004, 563, 15-21. | 3.8 | 31 |
| 67 | ENHANCEMENT OF IR ABSORPTION OF CO ADSORBED ON PALLADIUM NANOPARTICLES PREPARED BY SHIP-IN-A-BOTTLE IN SUPERCAGES OF NaA ZEOLITE. , 2002, , . | | 1 |
| 68 | Novel phenomenon of enhancement of IR absorption of CO adsorbed on nanoparticles of Pd confined in supercages of Y-zeolite. <i>Chemical Physics Letters</i> , 2001, 344, 463-470. | 2.6 | 38 |
| 69 | Voltammetric determination of 5-hydroxydole-3-acetic acid in human gastric juice. <i>Talanta</i> , 2000, 50, 1261-1266. | 5.5 | 13 |
| 70 | Fabrication of a chemically modified electrode containing 12-molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate. <i>Analytica Chimica Acta</i> , 1999, 394, 73-80. | 5.4 | 50 |
| 71 | Redox Electrochemistry of Silicon Dioxide Gel Films Containing 1:12 Molybdosilicate Acid and Its Electrocatalytic Activity toward the Reduction of Nitrite Ions. <i>Microchemical Journal</i> , 1999, 62, 344-353. | 4.5 | 6 |