# Jingyue Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 102 papers | 17,299 citations | 66234 42 h-index | 40881 93 g-index |
| 106 all docs | 106 docs citations | 106 times ranked | 14504 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Single-atom catalysis of CO oxidation using Pt1/FeOx. Nature Chemistry, 2011, 3, 634-641. | 6.6 | 5,149 |
| 2 | Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis. Accounts of Chemical Research, 2013, 46, 1740-1748. | 7.6 | 3,405 |
| 3 | Catalysis by Supported Single Metal Atoms. ACS Catalysis, 2017, 7, 34-59. | 5.5 | 1,047 |
| 4 | FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. Nature Communications, 2014, 5, 5634. | 5.8 | 890 |
| 5 | Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. Science, 2015, 349, 412-416. | 6.0 | 854 |
| 6 | Palladiumâ€“platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. Nature Communications, 2015, 6, 7594. | 5.8 | 440 |
| 7 | Highly Efficient Catalysis of Preferential Oxidation of CO in H<sub>2</sub>-Rich Stream by Gold Single-Atom Catalysts. ACS Catalysis, 2015, 5, 6249-6254. | 5.5 | 380 |
| 8 | Structure of the catalytically active copperâ€“ceria interfacial perimeter. Nature Catalysis, 2019, 2, 334-341. | 16.1 | 368 |
| 9 | Pd@Pt Coreâ€“Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. Journal of the American Chemical Society, 2015, 137, 15036-15042. | 6.6 | 296 |
| 10 | Catalysis on singly dispersed bimetallic sites. Nature Communications, 2015, 6, 7938. | 5.8 | 235 |
| 11 | Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. Nano Letters, 2016, 16, 1467-1471. | 4.5 | 228 |
| 12 | Supported Single Pt<sub>1</sub>/Au<sub>1</sub> Atoms for Methanol Steam Reforming. ACS Catalysis, 2014, 4, 3886-3890. | 5.5 | 204 |
| 13 | Ultrastable Hydroxyapatite/Titaniumâ€Dioxideâ€Supported Gold Nanocatalyst with Strong Metalâ€“Support Interaction for Carbon Monoxide Oxidation. Angewandte Chemie - International Edition, 2016, 55, 10606-10611. | 7.2 | 192 |
| 14 | Bifunctional Ag@Pd-Ag Nanocubes for Highly Sensitive Monitoring of Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2015, 137, 7039-7042. | 6.6 | 184 |
| 15 | Theoretical and Experimental Investigations on Single-Atom Catalysis: Ir<sub>1</sub>/FeO<sub>x</sub> for CO Oxidation. Journal of Physical Chemistry C, 2014, 118, 21945-21951. | 1.5 | 145 |
| 16 | Pocketlike Active Site of Rh<sub>1</sub>/MoS<sub>2</sub> Single-Atom Catalyst for Selective Crotonaldehyde Hydrogenation. Journal of the American Chemical Society, 2019, 141, 19289-19295. | 6.6 | 141 |
| 17 | Identifying Size Effects of Pt as Single Atoms and Nanoparticles Supported on FeO<sub>x</sub> for the Water-Gas Shift Reaction. ACS Catalysis, 2018, 8, 859-868. | 5.5 | 140 |
| 18 | Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for Highâ€Performance Capacitive Energy Storage. Advanced Functional Materials, 2016, 26, 3012-3020. | 7.8 | 132 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Catalytically Active Rh Subâ€Nanoclusters on TiO<sub>2</sub> for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie - International Edition, 2016, 55, 2820-2824. | 7.2 | 127 |
| 20 | Ultrathin, Polycrystalline, Two-Dimensional Co<sub>3</sub>O<sub>4</sub> for Low-Temperature CO Oxidation. ACS Catalysis, 2019, 9, 2558-2567. | 5.5 | 116 |
| 21 | High-Indexed Pt<sub>3</sub>Ni Alloy Tetrahexahedral Nanoframes Evolved through Preferential CO Etching. Nano Letters, 2017, 17, 2204-2210. | 4.5 | 113 |
| 22 | Identification of Active Area as Active Center for CO Oxidation over Single Au Atom Catalyst. ACS Catalysis, 2020, 10, 6094-6101. | 5.5 | 106 |
| 23 | Dual Metal Active Sites in an Ir<sub>1</sub>/FeO<sub>x</sub>Singleâ€Atom Catalyst: A Redox Mechanism for the Waterâ€Gas Shift Reaction. Angewandte Chemie - International Edition, 2020, 59, 12868-12875. | 7.2 | 102 |
| 24 | Ferric Oxide-Supported Pt Subnano Clusters for Preferential Oxidation of CO in H<sub>2</sub>-Rich Gas at Room Temperature. ACS Catalysis, 2014, 4, 2113-2117. | 5.5 | 96 |
| 25 | Remarkable active-site dependent H2O promoting effect in CO oxidation. Nature Communications, 2019, 10, 3824. | 5.8 | 96 |
| 26 | CO Oxidation on Metal Oxide Supported Single Pt atoms: The Role of the Support. Industrial & Engineering Chemistry Research, 2017, 56, 6916-6925. | 1.8 | 94 |
| 27 | Highly active Au1/Co3O4 single-atom catalyst for CO oxidation at room temperature. Chinese Journal of Catalysis, 2015, 36, 1505-1511. | 6.9 | 93 |
| 28 | Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO<sub>x</sub> catalysts. Chemical Science, 2017, 8, 5126-5131. | 3.7 | 90 |
| 29 | Activating low-temperature diesel oxidation by single-atom Pt on TiO2 nanowire array. Nature Communications, 2020, 11, 1062. | 5.8 | 90 |
| 30 | Facile Synthesis of Ag Nanorods with No Plasmon Resonance Peak in the Visible Region by Using Pd Decahedra of 16 nm in Size as Seeds. ACS Nano, 2015, 9, 10523-10532. | 7.3 | 88 |
| 31 | Single atom gold catalysts for low-temperature CO oxidation. Chinese Journal of Catalysis, 2016, 37, 1580-1586. | 6.9 | 85 |
| 32 | Kinetically Controlled Synthesis of Pdâ€“Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO<sub>2</sub> Reduction. Journal of the American Chemical Society, 2021, 143, 149-162. | 6.6 | 77 |
| 33 | Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO<sub>2</sub> Nanofibers for the Waterâ€Gas Shift Reaction. Advanced Functional Materials, 2015, 25, 4153-4162. | 7.8 | 75 |
| 34 | One-Pot Synthesis of Penta-twinned Palladium Nanowires and Their Enhanced Electrocatalytic Properties. ACS Applied Materials & Interfaces, 2017, 9, 31203-31212. | 4.0 | 70 |
| 35 | The shape effect of TiO<sub>2</sub> in VO<sub>x</sub>/TiO<sub>2</sub> catalysts for selective reduction of NO by NH<sub>3</sub>. Journal of Materials Chemistry A, 2015, 3, 14409-14415. | 5.2 | 65 |
| 36 | Ultrastable 3V-PPh3 polymers supported single Rh sites for fixed-bed hydroformylation of olefins. Journal of Molecular Catalysis A, 2015, 404-405, 211-217. | 4.8 | 65 |

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|---|---|---|---|
| 37 | Gold-Based Cubic Nanoboxes with Well-Defined Openings at the Corners and Ultrathin Walls Less Than Two Nanometers Thick. ACS Nano, 2016, 10, 8019-8025. | 7.3 | 65 |
| 38 | Advanced Electron Microscopy Characterization of Nanostructured Heterogeneous Catalysts. Microscopy and Microanalysis, 2004, 10, 55-76. | 0.2 | 63 |
| 39 | Aberration-corrected scanning transmission electron microscopy in single-atom catalysis: Probing the catalytically active centers. Chinese Journal of Catalysis, 2017, 38, 1460-1472. | 6.9 | 63 |
| 40 | Identification of Active Sites on High-Performance Pt/Al<sub>2</sub>O<sub>3</sub> Catalyst for Cryogenic CO Oxidation. ACS Catalysis, 2020, 10, 8815-8824. | 5.5 | 54 |
| 41 | Geometrical Structure of the Goldâ€“Iron(III) Oxide Interfacial Perimeter for CO Oxidation. Angewandte Chemie - International Edition, 2018, 57, 11289-11293. | 7.2 | 53 |
| 42 | Superior activity of Rh1/ZnO single-atom catalyst for CO oxidation. Chinese Journal of Catalysis, 2019, 40, 1847-1853. | 6.9 | 47 |
| 43 | Strong Coupling between ZnO Excitons and Localized Surface Plasmons of Silver Nanoparticles Studied by STEM-EELS. Nano Letters, 2015, 15, 5926-5931. | 4.5 | 42 |
| 44 | More active Ir subnanometer clusters than singleâ€atoms for catalytic oxidation of CO at low temperature. AICHE Journal, 2017, 63, 4003-4012. | 1.8 | 41 |
| 45 | Facile Fabrication of SnO<sub>2</sub> Nanorod Arrays Films as Electron Transporting Layer for Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800133. | 3.1 | 41 |
| 46 | Toward the Design of a Hierarchical Perovskite Support: Ultra-Sintering-Resistant Gold Nanocatalysts for CO Oxidation. ACS Catalysis, 2017, 7, 3388-3393. | 5.5 | 40 |
| 47 | A highly active Ptâ€“Fe/Î³-Al<sub>2</sub>O<sub>3</sub> catalyst for preferential oxidation of CO in excess of H<sub>2</sub> with a wide operation temperature window. Chemical Communications, 2017, 53, 9020-9023. | 2.2 | 40 |
| 48 | Highly crystalline Nb-doped TiO<sub>2</sub> nanospindles as superior electron transporting materials for high-performance planar structured perovskite solar cells. RSC Advances, 2018, 8, 20982-20989. | 1.7 | 40 |
| 49 | Syntheses, Plasmonic Properties, and Catalytic Applications of Agâ€“Rh Core-Frame Nanocubes and Rh Nanoboxes with Highly Porous Walls. Chemistry of Materials, 2018, 30, 2151-2159. | 3.2 | 39 |
| 50 | Coating Ptâ€“Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. ChemSusChem, 2016, 9, 2209-2215. | 3.6 | 35 |
| 51 | Hetero-epitaxially anchoring Au nanoparticles onto ZnO nanowires for CO oxidation. Chemical Communications, 2015, 51, 15332-15335. | 2.2 | 34 |
| 52 | Observing the Overgrowth of a Second Metal on Silver Cubic Seeds in Solution by Surface-Enhanced Raman Scattering. ACS Nano, 2017, 11, 5080-5086. | 7.3 | 34 |
| 53 | Stable and solubilized active Au atom clusters for selective epoxidation of cis-cyclooctene with molecular oxygen. Nature Communications, 2017, 8, 14881. | 5.8 | 34 |
| 54 | Single-atom catalysis for a sustainable and greener future. Current Opinion in Green and Sustainable Chemistry, 2020, 22, 54-64. | 3.2 | 33 |

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| 55 | Catalytically Active Rh Subâ€Nanoclusters on TiO<sub>2</sub> for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie, 2016, 128, 2870-2874. | 1.6 | 31 |
| 56 | Fiveâ€Fold Twinned Pd Nanorods and Their Use as Templates for the Synthesis of Bimetallic or Hollow Nanostructures. ChemNanoMat, 2015, 1, 246-252. | 1.5 | 30 |
| 57 | Ultrastable Hydroxyapatite/Titaniumâ€Dioxideâ€Supported Gold Nanocatalyst with Strong Metalâ€“Support Interaction for Carbon Monoxide Oxidation. Angewandte Chemie, 2016, 128, 10764-10769. | 1.6 | 29 |
| 58 | A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. Chemistry of Materials, 2018, 30, 6469-6477. | 3.2 | 28 |
| 59 | Hollow carbon anchored highly dispersed Pd species for selective hydrogenation of 3-nitrostyrene: metal-carbon interaction. Chemical Communications, 2018, 54, 13248-13251. | 2.2 | 25 |
| 60 | Atomic scale observation of oxygen delivery during silverâ€“oxygen nanoparticle catalysed oxidation of carbon nanotubes. Nature Communications, 2016, 7, 12251. | 5.8 | 24 |
| 61 | Highly Active Small Palladium Clusters Supported on Ferric Hydroxide for Carbon Monoxideâ€Tolerant Hydrogen Oxidation. ChemCatChem, 2014, 6, 547-554. | 1.8 | 23 |
| 62 | A Dual Catalyst with SERS Activity for Probing Stepwise Reduction and Oxidation Reactions. ChemNanoMat, 2016, 2, 786-790. | 1.5 | 22 |
| 63 | Facet-Selective Epitaxial Growth of Î´-Bi<sub>2</sub>O<sub>3</sub> on ZnO Nanowires. Chemistry of Materials, 2016, 28, 8141-8148. | 3.2 | 22 |
| 64 | Nanocarbon-Edge-Anchored High-Density Pt Atoms for 3-nitrostyrene Hydrogenation: Strong Metal-Carbon Interaction. IScience, 2019, 13, 190-198. | 1.9 | 22 |
| 65 | Ir<sub>1</sub>Zn<sub>n</sub> Bimetallic Site for Efficient Production of Hydrogen from Methanol. ACS Sustainable Chemistry and Engineering, 2019, 7, 18793-18800. | 3.2 | 19 |
| 66 | Synthesis of Ag/PANI@MnO<sub>2</sub> coreâ€“shell nanowires and their capacitance behavior. RSC Advances, 2016, 6, 17415-17422. | 1.7 | 18 |
| 67 | Advances and Applications of Atomic-Resolution Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 943-995. | 0.2 | 14 |
| 68 | Probing the catalytic behavior of ZnO nanowire supported Pd 1 single-atom catalyst for selected reactions. Chinese Journal of Catalysis, 2017, 38, 1549-1557. | 6.9 | 13 |
| 69 | Catalysis by Supported Single Metal Atoms. Microscopy and Microanalysis, 2016, 22, 860-861. | 0.2 | 12 |
| 70 | Geometrical Structure of the Goldâ€“Iron(III) Oxide Interfacial Perimeter for CO Oxidation. Angewandte Chemie, 2018, 130, 11459-11463. | 1.6 | 12 |
| 71 | Structure and morphology of polar and semi-polar pyramidal surfaces coating wurtzite ZnO micro-wires. Journal of Materials Science, 2013, 48, 3857-3862. | 1.7 | 10 |
| 72 | Atomic-Scale Structure and Catalysis on Positively Charged Bimetallic Sites for Generation of H<sub>2</sub>. Nano Letters, 2020, 20, 6255-6262. | 4.5 | 10 |

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|---|---|---|---|
| 73 | Geometric effect of Au nanoclusters on room temperature CO oxidation. Chemical Communications, 2020, 56, 876-879. | 2.2 | 8 |
| 74 | Facet Selective Growth of Iridium Chains/Wires of Single-Atom Width on the {1010} Surfaces of ZnO Nanowires. Microscopy and Microanalysis, 2017, 23, 484-485. | 0.2 | 6 |
| 75 | Surface Channeling in Aberration-Corrected Scanning Transmission Electron Microscopy of Nanostructures. Microscopy and Microanalysis, 2010, 16, 425-433. | 0.2 | 5 |
| 76 | Pt<sub>1</sub>â€“O<sub>4</sub> as active sites boosting CO oxidation via a non-classical Marsâ€“van Krevelen mechanism. Catalysis Science and Technology, 2021, 11, 3578-3588. | 2.1 | 5 |
| 77 | Synthesis of Anchored Bimetallic Catalysts via Epitaxy. Catalysts, 2016, 6, 88. | 1.6 | 3 |
| 78 | Imaging at the Single-Atom Level in Closed-Cell In Situ Gas Reactions. Microscopy and Microanalysis, 2016, 22, 876-877. | 0.2 | 3 |
| 79 | Manipulation of Pt-Ni Tetrahexahedral Nanoframes Using a Gaseous Etching Method. MRS Advances, 2018, 3, 943-948. | 0.5 | 3 |
| 80 | Facile Synthesis of Pdâ”Cu Bimetallic Twin Nanocubes and a Mechanistic Understanding of the Shape Evolution. ChemNanoMat, 2020, 6, 386-391. | 1.5 | 3 |
| 81 | Aberration-corrected STEM Study of Atomically Dispersed Pti/FeOx Catalyst with High Loading of Pt. Microscopy and Microanalysis, 2015, 21, 1733-1734. | 0.2 | 2 |
| 82 | Template Synthesis of Hollow Carbon Nanofibers. Microscopy and Microanalysis, 2015, 21, 989-990. | 0.2 | 2 |
| 83 | Nanotube Arrays: Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for High-Performance Capacitive Energy Storage (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.8 | 2 |
| 84 | Two-dimensional Polycrystalline Co<sub>3</sub>O<sub>4</sub> Supported High-Number-Density Metal Single Atoms and Clusters. Microscopy and Microanalysis, 2019, 25, 2210-2211. | 0.2 | 2 |
| 85 | Synthesis of Na@nanoFAU Zeolite Catalyst and Catalysis for Production of Formic Acid with Na@nanoFAU. Catalysis Letters, 2019, 149, 1965-1974. | 1.4 | 2 |
| 86 | In Situ Investigation of the Carbothermal Reduction of ZnO Nanowires. Microscopy and Microanalysis, 2014, 20, 1554-1555. | 0.2 | 1 |
| 87 | Strong Coupling between ZnO Exciton and Localized Surface Plasmon in Ag Nanoparticles Studied by STEM-EELS. Microscopy and Microanalysis, 2015, 21, 1685-1686. | 0.2 | 1 |
| 88 | ZnO Nanowire Supported Metal Single Atoms for CO oxidation. Microscopy and Microanalysis, 2016, 22, 872-873. | 0.2 | 1 |
| 89 | The Stability of High Metal-Loading Pt1/Fe2O3 Single-Atom Catalyst Under Different Gas Environment. Microscopy and Microanalysis, 2017, 23, 1898-1899. | 0.2 | 1 |
| 90 | Development of Two-Dimensional Polycrystalline C03O4 Hierarchical Structures and Pt1/2D-Co3O4 Single-atom Catalysts. Microscopy and Microanalysis, 2017, 23, 1868-1869. | 0.2 | 1 |

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| 91 | Anchoring Pt Single Atoms on CeOx Nanoclusters for CO Oxidation. Microscopy and Microanalysis, 2018, 24, 1660-1661. | 0.2 | 1 |
| 92 | Challenges in Determining Structure of Supported Subnano Metal Clusters. Microscopy and Microanalysis, 2019, 25, 1640-1641. | 0.2 | 1 |
| 93 | The Versatile Imaging Capabilities of Aberration-Corrected STEM. Microscopy and Microanalysis, 2014, 20, 88-89. | 0.2 | 0 |
| 94 | Aberration-corrected STEM of Four-atom Rhenium Nanowires Confined within Carbon Nanotubes. Microscopy and Microanalysis, 2015, 21, 2255-2256. | 0.2 | 0 |
| 95 | In Situ Observation of Ag Nanoparticle Catalyzed Oxidation of Carbon Nanotubes in an Aberration-corrected Environmental TEM. Microscopy and Microanalysis, 2015, 21, 423-424. | 0.2 | 0 |
| 96 | RÃ¼cktitelbild: Catalytically Active Rh Subâ€Nanoclusters on TiO<sub>2</sub> for CO Oxidation at Cryogenic Temperatures (Angew. Chem. 8/2016). Angewandte Chemie, 2016, 128, 2998-2998. | 1.6 | 0 |
| 97 | STEM-EELS Evaluation of the Dependence of Localized Surface Plasmon Linewidth on the Size of Au Nanoparticles. Microscopy and Microanalysis, 2017, 23, 1554-1555. | 0.2 | 0 |
| 98 | Pt1/CeO2-ZnO Nanowire Single-Atom Catalysts for Water-Gas Shift Reaction. Microscopy and Microanalysis, 2017, 23, 1856-1857. | 0.2 | 0 |
| 99 | Two-Dimensional Polycrystalline ZnO Hierarchical Structures as Single-atom Catalyst Supports. Microscopy and Microanalysis, 2018, 24, 1604-1605. | 0.2 | 0 |
| 100 | Site Selective Growth of Noble Metal Atoms on Two-dimensional MoS2 Nanosheets. Microscopy and Microanalysis, 2018, 24, 1562-1563. | 0.2 | 0 |
| 101 | Synthesis of Ultrathin-Wall Mesoporous Cu2O Nanotubes for Low-Temperature Carbon Monoxide Oxidation. Microscopy and Microanalysis, 2019, 25, 2244-2245. | 0.2 | 0 |
| 102 | Probing the Active Sites of ZnO Nanowire Supported Ir Species for CO Oxidation. Microscopy and Microanalysis, 2019, 25, 2204-2205. | 0.2 | 0 |