

Jingyue Liu

List of Publications by Year in descending order

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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	Pt ₁ –O ₄ as active sites boosting CO oxidation <i>via</i> a non-classical Mars–van Krevelen mechanism. <i>Catalysis Science and Technology</i> , 2021, 11, 3578-3588.	2.1	5
2	Advances and Applications of Atomic-Resolution Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 943-995.	0.2	14
3	Kinetically Controlled Synthesis of Pd–Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 149-162.	6.6	77
4	Geometric effect of Au nanoclusters on room temperature CO oxidation. <i>Chemical Communications</i> , 2020, 56, 876-879.	2.2	8
5	Facile Synthesis of Pd–Cu Bimetallic Twin Nanocubes and a Mechanistic Understanding of the Shape Evolution. <i>ChemNanoMat</i> , 2020, 6, 386-391.	1.5	3
6	Identification of Active Sites on High-Performance Pt/Al ₂ O ₃ Catalyst for Cryogenic CO Oxidation. <i>ACS Catalysis</i> , 2020, 10, 8815-8824.	5.5	54
7	Atomic-Scale Structure and Catalysis on Positively Charged Bimetallic Sites for Generation of H ₂ . <i>Nano Letters</i> , 2020, 20, 6255-6262.	4.5	10
8	Identification of Active Area as Active Center for CO Oxidation over Single Au Atom Catalyst. <i>ACS Catalysis</i> , 2020, 10, 6094-6101.	5.5	106
9	Activating low-temperature diesel oxidation by single-atom Pt on TiO ₂ nanowire array. <i>Nature Communications</i> , 2020, 11, 1062.	5.8	90
10	Single-atom catalysis for a sustainable and greener future. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 22, 54-64.	3.2	33
11	Dual Metal Active Sites in an Ir ₁ /FeO _x Single-Atom Catalyst: A Redox Mechanism for the Water–Gas Shift Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12868-12875.	7.2	102
12	Ir ₁ Zn _n Bimetallic Site for Efficient Production of Hydrogen from Methanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18793-18800.	3.2	19
13	Synthesis of Ultrathin-Wall Mesoporous Cu ₂ O Nanotubes for Low-Temperature Carbon Monoxide Oxidation. <i>Microscopy and Microanalysis</i> , 2019, 25, 2244-2245.	0.2	0
14	Pocketlike Active Site of Rh ₁ /MoS ₂ Single-Atom Catalyst for Selective Crotonaldehyde Hydrogenation. <i>Journal of the American Chemical Society</i> , 2019, 141, 19289-19295.	6.6	141
15	Superior activity of Rh ₁ /ZnO single-atom catalyst for CO oxidation. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1847-1853.	6.9	47
16	Probing the Active Sites of ZnO Nanowire Supported Ir Species for CO Oxidation. <i>Microscopy and Microanalysis</i> , 2019, 25, 2204-2205.	0.2	0
17	Two-dimensional Polycrystalline Co ₃ O ₄ Supported High-Number-Density Metal Single Atoms and Clusters. <i>Microscopy and Microanalysis</i> , 2019, 25, 2210-2211.	0.2	2
18	Remarkable active-site dependent H ₂ O promoting effect in CO oxidation. <i>Nature Communications</i> , 2019, 10, 3824.	5.8	96

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19	Challenges in Determining Structure of Supported Subnano Metal Clusters. <i>Microscopy and Microanalysis</i> , 2019, 25, 1640-1641.	0.2	1
20	Synthesis of Na@nanoFAU Zeolite Catalyst and Catalysis for Production of Formic Acid with Na@nanoFAU. <i>Catalysis Letters</i> , 2019, 149, 1965-1974.	1.4	2
21	Nanocarbon-Edge-Anchored High-Density Pt Atoms for 3-nitrostyrene Hydrogenation: Strong Metal-Carbon Interaction. <i>IScience</i> , 2019, 13, 190-198.	1.9	22
22	Structure of the catalytically active copper-ceria interfacial perimeter. <i>Nature Catalysis</i> , 2019, 2, 334-341.	16.1	368
23	Ultrathin, Polycrystalline, Two-Dimensional Co_3O_4 for Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2019, 9, 2558-2567.	5.5	116
24	Syntheses, Plasmonic Properties, and Catalytic Applications of Ag-Rh Core-Frame Nanocubes and Rh Nanoboxes with Highly Porous Walls. <i>Chemistry of Materials</i> , 2018, 30, 2151-2159.	3.2	39
25	Manipulation of Pt-Ni Tetrahedral Nanoframes Using a Gaseous Etching Method. <i>MRS Advances</i> , 2018, 3, 943-948.	0.5	3
26	Identifying Size Effects of Pt as Single Atoms and Nanoparticles Supported on FeO_x for the Water-Gas Shift Reaction. <i>ACS Catalysis</i> , 2018, 8, 859-868.	5.5	140
27	Hollow carbon anchored highly dispersed Pd species for selective hydrogenation of 3-nitrostyrene: metal-carbon interaction. <i>Chemical Communications</i> , 2018, 54, 13248-13251.	2.2	25
28	Anchoring Pt Single Atoms on CeO_x Nanoclusters for CO Oxidation. <i>Microscopy and Microanalysis</i> , 2018, 24, 1660-1661.	0.2	1
29	A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. <i>Chemistry of Materials</i> , 2018, 30, 6469-6477.	3.2	28
30	Two-Dimensional Polycrystalline ZnO Hierarchical Structures as Single-atom Catalyst Supports. <i>Microscopy and Microanalysis</i> , 2018, 24, 1604-1605.	0.2	0
31	Geometrical Structure of the Gold-Iron(III) Oxide Interfacial Perimeter for CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11289-11293.	7.2	53
32	Facile Fabrication of SnO_2 Nanorod Arrays Films as Electron Transporting Layer for Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800133.	3.1	41
33	Geometrical Structure of the Gold-Iron(III) Oxide Interfacial Perimeter for CO Oxidation. <i>Angewandte Chemie</i> , 2018, 130, 11459-11463.	1.6	12
34	Site Selective Growth of Noble Metal Atoms on Two-dimensional MoS_2 Nanosheets. <i>Microscopy and Microanalysis</i> , 2018, 24, 1562-1563.	0.2	0
35	Highly crystalline Nb-doped TiO_2 nanospindles as superior electron transporting materials for high-performance planar structured perovskite solar cells. <i>RSC Advances</i> , 2018, 8, 20982-20989.	1.7	40
36	High-Indexed Pt_3Ni Alloy Tetrahedral Nanoframes Evolved through Preferential CO Etching. <i>Nano Letters</i> , 2017, 17, 2204-2210.	4.5	113

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37	Toward the Design of a Hierarchical Perovskite Support: Ultra-Sintering-Resistant Gold Nanocatalysts for CO Oxidation. <i>ACS Catalysis</i> , 2017, 7, 3388-3393.	5.5	40
38	More active Ir subnanometer clusters than single atoms for catalytic oxidation of CO at low temperature. <i>AIChE Journal</i> , 2017, 63, 4003-4012.	1.8	41
39	Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO _x catalysts. <i>Chemical Science</i> , 2017, 8, 5126-5131.	3.7	90
40	Observing the Overgrowth of a Second Metal on Silver Cubic Seeds in Solution by Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2017, 11, 5080-5086.	7.3	34
41	CO Oxidation on Metal Oxide Supported Single Pt atoms: The Role of the Support. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6916-6925.	1.8	94
42	Stable and solubilized active Au atom clusters for selective epoxidation of cis-cyclooctene with molecular oxygen. <i>Nature Communications</i> , 2017, 8, 14881.	5.8	34
43	Probing the catalytic behavior of ZnO nanowire supported Pd 1 single-atom catalyst for selected reactions. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1549-1557.	6.9	13
44	One-Pot Synthesis of Penta-twinned Palladium Nanowires and Their Enhanced Electrocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31203-31212.	4.0	70
45	The Stability of High Metal-Loading Pt ₁ /Fe ₂ O ₃ Single-Atom Catalyst Under Different Gas Environment. <i>Microscopy and Microanalysis</i> , 2017, 23, 1898-1899.	0.2	1
46	Aberration-corrected scanning transmission electron microscopy in single-atom catalysis: Probing the catalytically active centers. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1460-1472.	6.9	63
47	A highly active Pt ^δ -Fe ³⁺ -Al ₂ O ₃ catalyst for preferential oxidation of CO in excess of H ₂ with a wide operation temperature window. <i>Chemical Communications</i> , 2017, 53, 9020-9023.	2.2	40
48	Development of Two-Dimensional Polycrystalline CO ₃ O ₄ Hierarchical Structures and Pt ₁ /2D-Co ₃ O ₄ Single-atom Catalysts. <i>Microscopy and Microanalysis</i> , 2017, 23, 1868-1869.	0.2	1
49	STEM-EELS Evaluation of the Dependence of Localized Surface Plasmon Linewidth on the Size of Au Nanoparticles. <i>Microscopy and Microanalysis</i> , 2017, 23, 1554-1555.	0.2	0
50	Catalysis by Supported Single Metal Atoms. <i>ACS Catalysis</i> , 2017, 7, 34-59.	5.5	1,047
51	Facet Selective Growth of Iridium Chains/Wires of Single-Atom Width on the {1010} Surfaces of ZnO Nanowires. <i>Microscopy and Microanalysis</i> , 2017, 23, 484-485.	0.2	6
52	Pt ₁ /CeO ₂ -ZnO Nanowire Single-Atom Catalysts for Water-Gas Shift Reaction. <i>Microscopy and Microanalysis</i> , 2017, 23, 1856-1857.	0.2	0
53	Synthesis of Anchored Bimetallic Catalysts via Epitaxy. <i>Catalysts</i> , 2016, 6, 88.	1.6	3
54	Imaging at the Single-Atom Level in Closed-Cell In Situ Gas Reactions. <i>Microscopy and Microanalysis</i> , 2016, 22, 876-877.	0.2	3

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55	A Dual Catalyst with SERS Activity for Probing Stepwise Reduction and Oxidation Reactions. ChemNanoMat, 2016, 2, 786-790.	1.5	22
56	Catalytically Active Rh Sub \AA Nanoclusters on TiO \AA for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie - International Edition, 2016, 55, 2820-2824.	7.2	127
57	R \AA ctitelbild: Catalytically Active Rh Sub \AA Nanoclusters on TiO \AA for CO Oxidation at Cryogenic Temperatures (Angew. Chem. 8/2016). Angewandte Chemie, 2016, 128, 2998-2998.	1.6	0
58	Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for High-Performance Capacitive Energy Storage. Advanced Functional Materials, 2016, 26, 3012-3020.	7.8	132
59	ZnO Nanowire Supported Metal Single Atoms for CO oxidation. Microscopy and Microanalysis, 2016, 22, 872-873.	0.2	1
60	Catalysis by Supported Single Metal Atoms. Microscopy and Microanalysis, 2016, 22, 860-861.	0.2	12
61	Ultrastable Hydroxyapatite/Titanium Dioxide Supported Gold Nanocatalyst with Strong Metal-Support Interaction for Carbon Monoxide Oxidation. Angewandte Chemie, 2016, 128, 10764-10769.	1.6	29
62	Ultrastable Hydroxyapatite/Titanium Dioxide Supported Gold Nanocatalyst with Strong Metal-Support Interaction for Carbon Monoxide Oxidation. Angewandte Chemie - International Edition, 2016, 55, 10606-10611.	7.2	192
63	Coating Pt-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
64	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
65	Facet-Selective Epitaxial Growth of Bi \AA O \AA on ZnO Nanowires. Chemistry of Materials, 2016, 28, 8141-8148.	3.2	22
66	Single atom gold catalysts for low-temperature CO oxidation. Chinese Journal of Catalysis, 2016, 37, 1580-1586.	6.9	85
67	Atomic scale observation of oxygen delivery during silver-oxygen nanoparticle catalysed oxidation of carbon nanotubes. Nature Communications, 2016, 7, 12251.	5.8	24
68	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 ETQq0 0 0 rgBT / Overlock 20 Tf 50 21		
69	Catalytically Active Rh Sub \AA Nanoclusters on TiO \AA for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie, 2016, 128, 2870-2874.	1.6	31
70	Synthesis of Ag/PANI@MnO \AA core-shell nanowires and their capacitance behavior. RSC Advances, 2016, 6, 17415-17422.	1.7	18
71	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
72	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

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73	Template Synthesis of Hollow Carbon Nanofibers. <i>Microscopy and Microanalysis</i> , 2015, 21, 989-990.	0.2	2
74	Five-Fold Twinned Pd Nanorods and Their Use as Templates for the Synthesis of Bimetallic or Hollow Nanostructures. <i>ChemNanoMat</i> , 2015, 1, 246-252.	1.5	30
75	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO ₂ Nanofibers for the Water-Gas Shift Reaction. <i>Advanced Functional Materials</i> , 2015, 25, 4153-4162.	7.8	75
76	Aberration-corrected STEM of Four-atom Rhenium Nanowires Confined within Carbon Nanotubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 2255-2256.	0.2	0
77	Strong Coupling between ZnO Exciton and Localized Surface Plasmon in Ag Nanoparticles Studied by STEM-EELS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1685-1686.	0.2	1
78	In Situ Observation of Ag Nanoparticle Catalyzed Oxidation of Carbon Nanotubes in an Aberration-corrected Environmental TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 423-424.	0.2	0
79	Bifunctional Ag@Pd-Ag Nanocubes for Highly Sensitive Monitoring of Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 7039-7042.	6.6	184
80	Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. <i>Journal of the American Chemical Society</i> , 2015, 137, 15036-15042.	6.6	296
81	Catalysis on singly dispersed bimetallic sites. <i>Nature Communications</i> , 2015, 6, 7938.	5.8	235
82	The shape effect of TiO ₂ in VO _x /TiO ₂ catalysts for selective reduction of NO by NH ₃ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 14409-14415.	5.2	65
83	Strong Coupling between ZnO Excitons and Localized Surface Plasmons of Silver Nanoparticles Studied by STEM-EELS. <i>Nano Letters</i> , 2015, 15, 5926-5931.	4.5	42
84	Hetero-epitaxially anchoring Au nanoparticles onto ZnO nanowires for CO oxidation. <i>Chemical Communications</i> , 2015, 51, 15332-15335.	2.2	34
85	Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. <i>Science</i> , 2015, 349, 412-416.	6.0	854
86	Ultrastable 3V-PPh ₃ polymers supported single Rh sites for fixed-bed hydroformylation of olefins. <i>Journal of Molecular Catalysis A</i> , 2015, 404-405, 211-217.	4.8	65
87	Palladium-platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. <i>Nature Communications</i> , 2015, 6, 7594.	5.8	440
88	Highly Efficient Catalysis of Preferential Oxidation of CO in H ₂ -Rich Stream by Gold Single-Atom Catalysts. <i>ACS Catalysis</i> , 2015, 5, 6249-6254.	5.5	380
89	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. <i>ACS Nano</i> , 2015, 9, 10523-10532.	7.3	88
90	Highly active Au ₁ /Co ₃ O ₄ single-atom catalyst for CO oxidation at room temperature. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1505-1511.	6.9	93

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91	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. <i>Nature Communications</i> , 2014, 5, 5634.	5.8	890
92	Ferric Oxide-Supported Pt Subnano Clusters for Preferential Oxidation of CO in H ₂ -Rich Gas at Room Temperature. <i>ACS Catalysis</i> , 2014, 4, 2113-2117.	5.5	96
93	Supported Single Pt ₁ /Au ₁ Atoms for Methanol Steam Reforming. <i>ACS Catalysis</i> , 2014, 4, 3886-3890.	5.5	204
94	Theoretical and Experimental Investigations on Single-Atom Catalysis: Ir ₁ /FeO _x for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21945-21951.	1.5	145
95	Highly Active Small Palladium Clusters Supported on Ferric Hydroxide for Carbon Monoxide-Tolerant Hydrogen Oxidation. <i>ChemCatChem</i> , 2014, 6, 547-554.	1.8	23
96	The Versatile Imaging Capabilities of Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 88-89.	0.2	0
97	In Situ Investigation of the Carbothermal Reduction of ZnO Nanowires. <i>Microscopy and Microanalysis</i> , 2014, 20, 1554-1555.	0.2	1
98	Structure and morphology of polar and semi-polar pyramidal surfaces coating wurtzite ZnO micro-wires. <i>Journal of Materials Science</i> , 2013, 48, 3857-3862.	1.7	10
99	Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis. <i>Accounts of Chemical Research</i> , 2013, 46, 1740-1748.	7.6	3,405
100	Single-atom catalysis of CO oxidation using Pt ₁ /FeO _x . <i>Nature Chemistry</i> , 2011, 3, 634-641.	6.6	5,149
101	Surface Channeling in Aberration-Corrected Scanning Transmission Electron Microscopy of Nanostructures. <i>Microscopy and Microanalysis</i> , 2010, 16, 425-433.	0.2	5
102	Advanced Electron Microscopy Characterization of Nanostructured Heterogeneous Catalysts. <i>Microscopy and Microanalysis</i> , 2004, 10, 55-76.	0.2	63