

# Xiaoyan Liu

## 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.

99  
papers

8,141  
citations

37  
h-index

90  
g-index

108  
ext. papers

10,228  
ext. citations

10.6  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
99	Strong Metal-Support Interaction of Ru on TiO <sub>2</sub> Derived from the Co-Reduction Mechanism of Ru/TiO <sub>2</sub> Interphase. <i>ACS Catalysis</i> , <b>2022</b> , 12, 1697-1705	13.1	4
98	Selective catalytic oxidation of ammonia to nitric oxide via chemical looping.. <i>Nature Communications</i> , <b>2022</b> , 13, 718	17.4	2
97	Nonprecious bimetallic Fe, Mo-embedded N-enriched porous biochar for efficient oxidation of aqueous organic contaminants. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 422, 126776	12.8	8
96	Crystal-Phase-Mediated Restructuring of Pt on TiO <sub>2</sub> with Tunable Reactivity: Redispersion versus Reshaping. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3634-3643	13.1	9
95	Relation between Water Oxidation Activity and Coordination Environment of C,N-Coordinated Mononuclear Co Catalyst. <i>ACS Catalysis</i> , <b>2022</b> , 12, 491-496	13.1	5
94	Synthesis and characterization of iron-nitrogen-doped biochar catalysts for organic pollutant removal and hexavalent chromium reduction.. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 610, 334-348	8.3	3
93	Oxidative coupling of methane over Mo-Sn catalysts. <i>Chemical Communications</i> , <b>2021</b> , 57, 13297-13300	5.8	1
92	Sustainable Carbon Materials toward Emerging Applications.. <i>Small Methods</i> , <b>2021</b> , 5, e2001250	12.8	12
91	High-Efficiency Water Gas Shift Reaction Catalysis on $\beta$ -MoC Promoted by Single-Atom Ir Species. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5942-5950	13.1	16
90	Highly Efficient Enrichment of O-GalNAc Glycopeptides by Using Immobilized Metal Ion Affinity Chromatography. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7579-7587	7.8	2
89	Dual-Functional Ti(IV)-IMAC Material Enables Simultaneous Enrichment and Separation of Diverse Glycopeptides and Phosphopeptides. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8568-8576	7.8	7
88	Highly selective and robust single-atom catalyst Ru/NC for reductive amination of aldehydes/ketones. <i>Nature Communications</i> , <b>2021</b> , 12, 3295	17.4	32
87	Atomic Pyridinic Nitrogen Sites Promoting Levulinic Acid Hydrogenations over Double-Shelled Hollow Ru/C Nanoreactors. <i>Small</i> , <b>2021</b> , 17, e2101271	11	9
86	Engineering of Yolk/Core-Shell Structured Nanoreactors for Thermal Hydrogenations. <i>Small</i> , <b>2021</b> , 17, e1906250	11	29
85	Producing of cinnamyl alcohol from cinnamaldehyde over supported gold nanocatalyst. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 470-481	11.3	9
84	Synthesis of bio-based methylcyclopentadiene via direct hydrodeoxygenation of 3-methylcyclopent-2-enone derived from cellulose. <i>Nature Communications</i> , <b>2021</b> , 12, 46	17.4	15
83	Phosphorus coordinated Rh single-atom sites on nanodiamond as highly regioselective catalyst for hydroformylation of olefins. <i>Nature Communications</i> , <b>2021</b> , 12, 4698	17.4	18

82	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14530-14539	16.4	49
81	Near 100% ethene selectivity achieved by tailoring dual active sites to isolate dehydrogenation and oxidation. <i>Nature Communications</i> , <b>2021</b> , 12, 5447	17.4	5
80	Chemoselective hydrogenation of 3-nitrostyrene over supported gold catalysts: Effect of loadings of gold. <i>Journal of the Chinese Chemical Society</i> , <b>2021</b> , 68, 444-450	1.5	1
79	Sulfate-Modified NiAl Mixed Oxides as Effective C-H Bond-Breaking Agents for the Sole Production of Ethylene from Ethane. <i>ACS Catalysis</i> , <b>2020</b> , 10, 7619-7629	13.1	12
78	High-loading and thermally stable Pt <sub>1</sub> /MgAl <sub>1.2</sub> Fe <sub>0.8</sub> O <sub>4</sub> single-atom catalysts for high-temperature applications. <i>Science China Materials</i> , <b>2020</b> , 63, 949-958	7.1	21
77	Effect of IB-metal on Ni/SiO <sub>2</sub> catalyst for selective hydrogenation of acetylene. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1099-1108	11.3	4
76	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. <i>Nature Communications</i> , <b>2020</b> , 11, 1263	17.4	107
75	Photo-thermo Catalytic Oxidation over a TiO <sub>2</sub> -WO <sub>3</sub> -Supported Platinum Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12909-12916	16.4	29
74	A Novel Single-Atom Electrocatalyst Ti/rGO for Efficient Cathodic Reduction in Hybrid Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000478	24	20
73	Strong Metal-Support Interactions between Pt Single Atoms and TiO <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11922-11927	3.6	25
72	Metal-Support Synergy of Supported Gold Nanoclusters in Selective Oxidation of Alcohols. <i>Catalysts</i> , <b>2020</b> , 10, 107	4	4
71	Controlling CO <sub>2</sub> Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20158-20164	3.6	3
70	Controlling CO Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19983-19989	16.4	40
69	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13624-13629	13.2	14
68	A New Workflow for the Analysis of Phosphosite Occupancy in Paired Samples by Integration of Proteomics and Phosphoproteomics Data Sets. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 3807-3816	5.6	1
67	Highly Selective Hydrogenation of CO to Ethanol via Designed Bifunctional Ir-In <sub>2</sub> O <sub>3</sub> Single-Atom Catalyst. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19001-19005	16.4	63
66	Ru/TiO <sub>2</sub> Catalysts with Size-Dependent Metal/Support Interaction for Tunable Reactivity in Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 12967-12975	13.1	34
65	Photo-thermo Catalytic Oxidation over a TiO <sub>2</sub> -WO <sub>3</sub> -Supported Platinum Catalyst. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13009-13016	3.6	8

64	Strong Metal-Support Interactions between Pt Single Atoms and TiO. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11824-11829	16.4	119
63	Unraveling the coordination structure-performance relationship in Pt/FeO single-atom catalyst. <i>Nature Communications</i> , <b>2019</b> , 10, 4500	17.4	137
62	Synergy of the catalytic activation on Ni and the CeO <sub>2</sub> /TiO <sub>2</sub> /Ce <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> stoichiometric redox cycle for dramatically enhanced solar fuel production. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 767-779	35.4	57
61	Iridium Single-Atom Catalyst Performing a Quasi-homogeneous Hydrogenation Transformation of CO <sub>2</sub> to Formate. <i>Chem</i> , <b>2019</b> , 5, 693-705	16.2	110
60	Design of an Amphiphilic Perylene Diimide for Optical Recognition of Anticancer Drug through a Chirality-Induced Helical Structure. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 9834-9839	4.8	4
59	Acetylene-Selective Hydrogenation Catalyzed by Cationic Nickel Confined in Zeolite. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9920-9927	16.4	51
58	One-Step SH <sub>2</sub> Superbinder-Based Approach for Sensitive Analysis of Tyrosine Phosphoproteome. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 1870-1879	5.6	8
57	Dual-Functional Titanium(IV) Immobilized Metal Affinity Chromatography Approach for Enabling Large-Scale Profiling of Protein Mannose-6-Phosphate Glycosylation and Revealing Its Predominant Substrates. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11589-11597	7.8	19
56	Cleavage of lignin C-O bonds over a heterogeneous rhenium catalyst through hydrogen transfer reactions. <i>Green Chemistry</i> , <b>2019</b> , 21, 5556-5564	10	36
55	Immobilized Ni Clusters in Mesoporous Aluminum Silica Nanospheres for Catalytic Hydrogenolysis of Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19034-19041	8.3	22
54	Submicroreactors: Enhanced Hydrogenation Performance over Hollow Structured Co-CoOx@N-C Capsules (Adv. Sci. 22/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970135	13.6	2
53	Non defect-stabilized thermally stable single-atom catalyst. <i>Nature Communications</i> , <b>2019</b> , 10, 234	17.4	274
52	Study of Surface Plasmon Assisted Reactions to Understand the Light-Induced Decarboxylation of N719 Sensitizer. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 23-28	2.3	3
51	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acid-Base Pair. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4172-4181	16.4	94
50	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7071-7075	16.4	163
49	Synthesis of Subnanometer-Sized Gold Clusters by a Simple Milling-Mediated Solid Reduction Method. <i>Chinese Journal of Chemistry</i> , <b>2018</b> , 36, 329-332	4.9	10
48	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 7189-7193	3.6	37
47	Effects of divalent metal ions of hydrotalcites on catalytic behavior of supported gold nanocatalysts for chemoselective hydrogenation of 3-nitrostyrene. <i>Journal of Catalysis</i> , <b>2018</b> , 364, 174-182	7.3	26

46	Effective removal of the protective ligands from Au nanoclusters by ambient pressure nonthermal plasma treatment for CO oxidation. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 929-936	11.3	12
45	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. <i>ACS Catalysis</i> , <b>2017</b> , 7, 1491-1500	13.1	245
44	ZnAl-Hydrotalcite-Supported Au Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2709-2713	16.4	97
43	ZnAl-Hydrotalcite-Supported Au <sub>25</sub> Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2753-2757	3.6	30
42	Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO catalysts. <i>Chemical Science</i> , <b>2017</b> , 8, 5126-5131	9.4	65
41	Amorphous Cobalt Oxide Nanoparticles as Active Water-Oxidation Catalysts. <i>ChemCatChem</i> , <b>2017</b> , 9, 3641-3645	5.2	28
40	Theoretical Insights and the Corresponding Construction of Supported Metal Catalysts for Highly Selective CO <sub>2</sub> to CO Conversion. <i>ACS Catalysis</i> , <b>2017</b> , 7, 4613-4620	13.1	69
39	Detecting Proteins Glycosylation by a Homogeneous Reaction System with Zwitterionic Gold Nanoclusters. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4339-4343	7.8	10
38	A novel CeO <sub>2</sub> SnO <sub>2</sub> /Ce <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> pyrochlore cycle for enhanced solar thermochemical water splitting. <i>AIChE Journal</i> , <b>2017</b> , 63, 3450-3462	3.6	25
37	Isolation of Pd atoms by Cu for semi-hydrogenation of acetylene: Effects of Cu loading. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1540-1548	11.3	29
36	Selective hydrogenation of acetylene in an ethylene-rich stream over silica supported Ag-Ni bimetallic catalysts. <i>Applied Catalysis A: General</i> , <b>2017</b> , 545, 90-96	5.1	27
35	Crystal Plane Effect of ZnO on the Catalytic Activity of Gold Nanoparticles for the Acetylene Hydrogenation Reaction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19727-19734	3.8	10
34	SiO <sub>2</sub> -supported Au-Ni bimetallic catalyst for the selective hydrogenation of acetylene. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1338-1346	11.3	28
33	Discriminating Catalytically Active Fe <sup>n</sup> Species of Atomically Dispersed Fe-N-C Catalyst for Selective Oxidation of the C-H Bond. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10790-10798	16.4	499
32	Water-soluble Au nanoclusters for multiplexed mass spectrometry imaging. <i>Chemical Communications</i> , <b>2017</b> , 53, 12688-12691	5.8	8
31	Single-atom dispersed Co-N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. <i>Chemical Science</i> , <b>2016</b> , 7, 5758-5764	9.4	455
30	Influence of pretreatment temperature on catalytic performance of rutile TiO <sub>2</sub> -supported ruthenium catalyst in CO <sub>2</sub> methanation. <i>Journal of Catalysis</i> , <b>2016</b> , 333, 227-237	7.3	105
29	PdZn Intermetallic Nanostructure with Pd <sub>2</sub> ZnPd Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1054-1061	13.1	234

28	Defect-Mediated Gold Substitution Doping in ZnO Mesocrystals and Catalysis in CO Oxidation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 115-122	13.1	48
27	Acute nephrotoxicity of aristolochic acid in vitro: metabolomics study for intracellular metabolic time-course changes. <i>Biomarkers</i> , <b>2016</b> , 21, 233-42	2.6	6
26	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3717-3725	13.1	400
25	Metabolomic profiling of emodin-induced cytotoxicity in human liver cells and mechanistic study. <i>Toxicology Research</i> , <b>2015</b> , 4, 948-955	2.6	27
24	Co <sup>II</sup> Catalyst for C <sub>1</sub> C <sub>1</sub> Coupling Reactions: On the Catalytic Performance and Active Sites. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6563-6572	13.1	205
23	Highly Efficient Catalysis of Preferential Oxidation of CO in H <sub>2</sub> -Rich Stream by Gold Single-Atom Catalysts. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6249-6254	13.1	290
22	Metabolomic Responses of Human Hepatocytes to Emodin, Aristolochic Acid, and Triptolide: Chemicals Purified from Traditional Chinese Medicines. <i>Journal of Biochemical and Molecular Toxicology</i> , <b>2015</b> , 29, 533-43	3.4	16
21	A metabolomics study of the inhibitory effect of 17-beta-estradiol on osteoclast proliferation and differentiation. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 635-46		16
20	Promotional effect of Pd single atoms on Au nanoparticles supported on silica for the selective hydrogenation of acetylene in excess ethylene. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 2043	3.6	117
19	Rapid and sensitive analysis of parishin and its metabolites in rat plasma using ultra high performance liquid chromatography-fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2014</b> , 973C, 104-109	3.2	15
18	RuO <sub>2</sub> /rutile-TiO <sub>2</sub> : a superior catalyst for N <sub>2</sub> O decomposition. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5178-5181	13	32
17	Crystal phase effects on the structure and performance of ruthenium nanoparticles for CO <sub>2</sub> hydrogenation. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 2058-2063	5.5	59
16	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. <i>ACS Catalysis</i> , <b>2014</b> , 4, 1546-1553	13.1	184
15	FeO <sub>x</sub> -supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. <i>Nature Communications</i> , <b>2014</b> , 5, 5634	17.4	708
14	Structural and catalytic properties of supported Ni <sub>2</sub> P alloy catalysts for H <sub>2</sub> generation via hydrous hydrazine decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 779-788	21.8	90
13	Aerobic oxidative coupling of alcohols and amines over Au <sub>2</sub> Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. <i>Green Chemistry</i> , <b>2013</b> , 15, 2680	10	96
12	Understanding the synergistic effects of gold bimetallic catalysts. <i>Journal of Catalysis</i> , <b>2013</b> , 308, 258-274	7.3	143
11	Remarkable performance of Ir <sub>1</sub> /FeO(x) single-atom catalyst in water gas shift reaction. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15314-7	16.4	646

10	Selective Hydrogenation of Acetylene over SBA-15 Supported AuCu Bimetallic Catalysts. <i>Journal of the Chinese Chemical Society</i> , <b>2013</b> , 60, 907-914	1.5	23
9	Constructing the Supporting Service, Education Guidance, Management System of Network Education and Examination <b>2013</b> ,		2
8	Strong metal-support interactions between gold nanoparticles and ZnO nanorods in CO oxidation. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10251-8	16.4	398
7	Structural changes of AuCu bimetallic catalysts in CO oxidation: In situ XRD, EPR, XANES, and FT-IR characterizations. <i>Journal of Catalysis</i> , <b>2011</b> , 278, 288-296	7.3	232
6	Corking and Uncorking a Catalytic Yolk-Shell Nanoreactor: Stable Gold Catalyst in Hollow Silica Nanosphere. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2984-2988	6.4	65
5	Identification of Angiotensin I-Converting Enzyme Inhibitors in Peptides Mixture of Hydrolyzed Red Deer Plasma with Proteomic Approach. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 28, 1665-1672	4.9	13
4	Synthesis of Thermally Stable and Highly Active Bimetallic AuAg Nanoparticles on Inert Supports. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 410-418	9.6	239
3	Au-Cu Alloy nanoparticles confined in SBA-15 as a highly efficient catalyst for CO oxidation. <i>Chemical Communications</i> , <b>2008</b> , 3187-9	5.8	269
2	Crystallinity-Modulated Co <sub>2</sub> VxO <sub>4</sub> Nanoplates for Efficient Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 14884-14891	13.1	0
1	Tuning the coordination environment of single-atom catalyst M-N-C towards selective hydrogenation of functionalized nitroarenes. <i>Nano Research</i> , 1	10	15