

Xiaoyan Liu

List of Publications by Year in descending order

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104
papers

12,447
citations

44069

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30087

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108
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108
times ranked

11169
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the coordination environment of single-atom catalyst M-N-C towards selective hydrogenation of functionalized nitroarenes. <i>Nano Research</i> , 2022, 15, 519-527.	10.4	53
2	Nonprecious bimetallic Fe, Mo-embedded N-enriched porous biochar for efficient oxidation of aqueous organic contaminants. <i>Journal of Hazardous Materials</i> , 2022, 422, 126776.	12.4	53
3	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> , 2022, 610, 334-346.	9.4	34
4	Strong Metal-Support Interaction of Ru on TiO ₂ Derived from the Co-Reduction Mechanism of Ru/TiO ₂ Interphase. <i>ACS Catalysis</i> , 2022, 12, 1697-1705.	11.2	49
5	Selective catalytic oxidation of ammonia to nitric oxide via chemical looping. <i>Nature Communications</i> , 2022, 13, 718.	12.8	18
6	A Tyrosine Phosphoproteome Analysis Approach Enabled by Selective Dephosphorylation with Protein Tyrosine Phosphatase. <i>Analytical Chemistry</i> , 2022, 94, 4155-4164.	6.5	4
7	Crystal-Phase-Mediated Restructuring of Pt on TiO ₂ with Tunable Reactivity: Redispersion versus Reshaping. <i>ACS Catalysis</i> , 2022, 12, 3634-3643.	11.2	44
8	Relation between Water Oxidation Activity and Coordination Environment of C,N-Coordinated Mononuclear Co Catalyst. <i>ACS Catalysis</i> , 2022, 12, 491-496.	11.2	22
9	Comprehensive chemical profile and quantitative analysis of the Shabyar tablet, a traditional ethnic medicine prescription, by ultra-high-performance liquid chromatography with quadrupole-orbitrap high-resolution mass spectrometry. <i>Journal of Separation Science</i> , 2022, 45, 2148-2160.	2.5	2
10	Active and stable Cu doped NiMgAlO catalysts for upgrading ethanol to n-butanol. <i>Journal of Energy Chemistry</i> , 2022, 72, 306-317.	12.9	12
11	Introducing Co-O Moiety to Co-N-C Single-Atom Catalyst for Ethylbenzene Dehydrogenation. <i>ACS Catalysis</i> , 2022, 12, 7760-7772.	11.2	23
12	Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. <i>Journal of the American Chemical Society</i> , 2022, 144, 12062-12071.	13.7	192
13	Engineering of Yolk/Core-Shell Structured Nanoreactors for Thermal Hydrogenations. <i>Small</i> , 2021, 17, e1906250.	10.0	60
14	Producing of cinnamyl alcohol from cinnamaldehyde over supported gold nanocatalyst. <i>Chinese Journal of Catalysis</i> , 2021, 42, 470-481.	14.0	23
15	Synthesis of bio-based methylcyclopentadiene via direct hydrodeoxygenation of 3-methylcyclopent-2-enone derived from cellulose. <i>Nature Communications</i> , 2021, 12, 46.	12.8	27
16	Sustainable Carbon Materials toward Emerging Applications. <i>Small Methods</i> , 2021, 5, e2001250.	8.6	44
17	High-Efficiency Water Gas Shift Reaction Catalysis on Î±-MoC Promoted by Single-Atom Ir Species. <i>ACS Catalysis</i> , 2021, 11, 5942-5950.	11.2	65
18	Highly Efficient Enrichment of O-GalNAc Glycopeptides by Using Immobilized Metal Ion Affinity Chromatography. <i>Analytical Chemistry</i> , 2021, 93, 7579-7587.	6.5	12

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19	Dual-Functional Ti(IV)-IMAC Material Enables Simultaneous Enrichment and Separation of Diverse Glycopeptides and Phosphopeptides. <i>Analytical Chemistry</i> , 2021, 93, 8568-8576.	6.5	32
20	Highly selective and robust single-atom catalyst Ru ₁ /NC for reductive amination of aldehydes/ketones. <i>Nature Communications</i> , 2021, 12, 3295.	12.8	152
21	Atomic Pyridinic Nitrogen Sites Promoting Levulinic Acid Hydrogenations over Double-Shelled Hollow Ru/C Nanoreactors. <i>Small</i> , 2021, 17, e2101271.	10.0	26
22	Phosphorus coordinated Rh single-atom sites on nanodiamond as highly regioselective catalyst for hydroformylation of olefins. <i>Nature Communications</i> , 2021, 12, 4698.	12.8	78
23	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N ₃ as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 14530-14539.	13.7	218
24	Near 100% ethene selectivity achieved by tailoring dual active sites to isolate dehydrogenation and oxidation. <i>Nature Communications</i> , 2021, 12, 5447.	12.8	30
25	Chemoselective hydrogenation of 3-nitrostyrene over supported gold catalysts: Effect of loadings of gold. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 444-450.	1.4	2
26	Oxidative coupling of methane over Mo-Sn catalysts. <i>Chemical Communications</i> , 2021, 57, 13297-13300.	4.1	4
27	Crystallinity-Modulated Co ₂ V ₄ O ₄ Nanoplates for Efficient Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2021, 11, 14884-14891.	11.2	23
28	Controlling CO ₂ Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie</i> , 2020, 132, 20158-20164.	2.0	8
29	Controlling CO ₂ Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19983-19989.	13.8	114
30	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 13624-13629.	11.2	63
31	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> , 2020, 19, 3807-3816.	3.7	3
32	Highly Selective Hydrogenation of CO ₂ to Ethanol via Designed Bifunctional Ir ₁ In ₂ O ₃ Single-Atom Catalyst. <i>Journal of the American Chemical Society</i> , 2020, 142, 19001-19005.	13.7	158
33	Ru/TiO ₂ Catalysts with Size-Dependent Metal/Support Interaction for Tunable Reactivity in Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2020, 10, 12967-12975.	11.2	83
34	Sulfate-Modified NiAl Mixed Oxides as Effective C-H Bond-Breaking Agents for the Sole Production of Ethylene from Ethane. <i>ACS Catalysis</i> , 2020, 10, 7619-7629.	11.2	26
35	High-loading and thermally stable Pt ₁ /MgAl _{1.2} Fe _{0.8} O ₄ single-atom catalysts for high-temperature applications. <i>Science China Materials</i> , 2020, 63, 949-958.	6.3	31
36	Effect of IB-metal on Ni/SiO ₂ catalyst for selective hydrogenation of acetylene. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1099-1108.	14.0	18

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37	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. <i>Nature Communications</i> , 2020, 11, 1263.	12.8	198
38	Photo-thermo Catalytic Oxidation over a TiO ₂ â€WO ₃ â€Supported Platinum Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12909-12916.	13.8	75
39	A Novel Single-Atom Electrocatalyst Ti ₁ /rGO for Efficient Cathodic Reduction in Hybrid Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2000478.	21.0	31
40	Strong Metalâ€Support Interactions between Pt Single Atoms and TiO ₂ . <i>Angewandte Chemie</i> , 2020, 132, 11922-11927.	2.0	46
41	Photo-thermo Catalytic Oxidation over a TiO ₂ â€WO ₃ â€Supported Platinum Catalyst. <i>Angewandte Chemie</i> , 2020, 132, 13009-13016.	2.0	15
42	Strong Metalâ€Support Interactions between Pt Single Atoms and TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11824-11829.	13.8	309
43	Metal-Support Synergy of Supported Gold Nanoclusters in Selective Oxidation of Alcohols. <i>Catalysts</i> , 2020, 10, 107.	3.5	11
44	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> , 2019, 91, 11589-11597.	6.5	34
45	Cleavage of lignin Câ€O bonds over a heterogeneous rhenium catalyst through hydrogen transfer reactions. <i>Green Chemistry</i> , 2019, 21, 5556-5564.	9.0	62
46	Immobilized Ni Clusters in Mesoporous Aluminum Silica Nanospheres for Catalytic Hydrogenolysis of Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19034-19041.	6.7	32
47	Unraveling the coordination structure-performance relationship in Pt1/Fe2O3 single-atom catalyst. <i>Nature Communications</i> , 2019, 10, 4500.	12.8	279
48	Synergy of the catalytic activation on Ni and the CeO ₂ â€TiO ₂ /Ce ₂ Ti ₂ O ₇ stoichiometric redox cycle for dramatically enhanced solar fuel production. <i>Energy and Environmental Science</i> , 2019, 12, 767-779.	30.8	90
49	Iridium Single-Atom Catalyst Performing a Quasi-homogeneous Hydrogenation Transformation of CO ₂ to Formate. <i>CheM</i> , 2019, 5, 693-705.	11.7	181
50	Design of an Amphiphilic Perylene Diimide for Optical Recognition of Anticancer Drug through a Chiralityâ€Induced Helical Structure. <i>Chemistry - A European Journal</i> , 2019, 25, 9834-9839.	3.3	10
51	Acetylene-Selective Hydrogenation Catalyzed by Cationic Nickel Confined in Zeolite. <i>Journal of the American Chemical Society</i> , 2019, 141, 9920-9927.	13.7	112
52	One-Step SH ₂ Superbinder-Based Approach for Sensitive Analysis of Tyrosine Phosphoproteome. <i>Journal of Proteome Research</i> , 2019, 18, 1870-1879.	3.7	18
53	Submicroreactors: Enhanced Hydrogenation Performance over Hollow Structured Coâ€CoO _x @Nâ€Capsules (<i>Adv. Sci.</i> 22/2019). <i>Advanced Science</i> , 2019, 6, 1970135.	11.2	3
54	Non defect-stabilized thermally stable single-atom catalyst. <i>Nature Communications</i> , 2019, 10, 234.	12.8	452

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55	Study of Surface Plasmon Assisted Reactions to Understand the Light-Induced Decarboxylation of N719 Sensitizer. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 23-28.	2.0	6
56	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> , 2018, 140, 4172-4181.	13.7	157
57	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7071-7075.	13.8	243
58	Synthesis of Subnanometer-Sized Gold Clusters by a Simple Milling-Mediated Solid Reduction Method. <i>Chinese Journal of Chemistry</i> , 2018, 36, 329-332.	4.9	10
59	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie</i> , 2018, 130, 7189-7193.	2.0	64
60	Effective removal of the protective ligands from Au nanoclusters by ambient pressure nonthermal plasma treatment for CO oxidation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 929-936.	14.0	13
61	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> , 2018, 364, 174-182.	6.2	35
62	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. <i>ACS Catalysis</i> , 2017, 7, 1491-1500.	11.2	374
63	ZnAl-Hydrotalcite-Supported Au ₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2709-2713.	13.8	127
64	ZnAl-Hydrotalcite-Supported Au ₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie</i> , 2017, 129, 2753-2757.	2.0	40
65	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.	7.4	90
66	Amorphous Cobalt Oxide Nanoparticles as Active Water-Oxidation Catalysts. <i>ChemCatChem</i> , 2017, 9, 3641-3645.	3.7	34
67	Theoretical Insights and the Corresponding Construction of Supported Metal Catalysts for Highly Selective CO ₂ to CO Conversion. <i>ACS Catalysis</i> , 2017, 7, 4613-4620.	11.2	104
68	Detecting Proteins Glycosylation by a Homogeneous Reaction System with Zwitterionic Gold Nanoclusters. <i>Analytical Chemistry</i> , 2017, 89, 4339-4343.	6.5	12
69	A novel CeO ₂ -SnO ₂ /Ce ₂ Sn ₂ O ₇ pyrochlore cycle for enhanced solar thermochemical water splitting. <i>AIChE Journal</i> , 2017, 63, 3450-3462.	3.6	34
70	Isolation of Pd atoms by Cu for semi-hydrogenation of acetylene: Effects of Cu loading. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1540-1548.	14.0	44
71	Selective hydrogenation of acetylene in an ethylene-rich stream over silica supported Ag-Ni bimetallic catalysts. <i>Applied Catalysis A: General</i> , 2017, 545, 90-96.	4.3	45
72	Crystal Plane Effect of ZnO on the Catalytic Activity of Gold Nanoparticles for the Acetylene Hydrogenation Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19727-19734.	3.1	17

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73	SiO ₂ -supported Au-Ni bimetallic catalyst for the selective hydrogenation of acetylene. Chinese Journal of Catalysis, 2017, 38, 1338-1346.	14.0	42
74	Discriminating Catalytically Active FeN _x Species of Atomically Dispersed Fe-N-C Catalyst for Selective Oxidation of the C-H Bond. Journal of the American Chemical Society, 2017, 139, 10790-10798.	13.7	738
75	Water-soluble Au nanoclusters for multiplexed mass spectrometry imaging. Chemical Communications, 2017, 53, 12688-12691.	4.1	9
76	Acute nephrotoxicity of aristolochic acid in vitro: metabolomics study for intracellular metabolic time-course changes. Biomarkers, 2016, 21, 233-242.	1.9	6
77	Single-atom dispersed Co-N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. Chemical Science, 2016, 7, 5758-5764.	7.4	571
78	Influence of pretreatment temperature on catalytic performance of rutile TiO ₂ -supported ruthenium catalyst in CO ₂ methanation. Journal of Catalysis, 2016, 333, 227-237.	6.2	154
79	PdZn Intermetallic Nanostructure with Pd-Zn-Pd Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. ACS Catalysis, 2016, 6, 1054-1061.	11.2	334
80	Defect-Mediated Gold Substitution Doping in ZnO Mesocrystals and Catalysis in CO Oxidation. ACS Catalysis, 2016, 6, 115-122.	11.2	54
81	Metabolomic Responses of Human Hepatocytes to Emodin, Aristolochic Acid, and Triptolide: Chemicals Purified from Traditional Chinese Medicines. Journal of Biochemical and Molecular Toxicology, 2015, 29, 533-543.	3.0	21
82	A metabolomics study of the inhibitory effect of 17-beta-estradiol on osteoclast proliferation and differentiation. Molecular BioSystems, 2015, 11, 635-646.	2.9	20
83	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. ACS Catalysis, 2015, 5, 3717-3725.	11.2	545
84	Metabolomic profiling of emodin-induced cytotoxicity in human liver cells and mechanistic study. Toxicology Research, 2015, 4, 948-955.	2.1	40
85	Co-N-C Catalyst for C-C Coupling Reactions: On the Catalytic Performance and Active Sites. ACS Catalysis, 2015, 5, 6563-6572.	11.2	260
86	Highly Efficient Catalysis of Preferential Oxidation of CO in H ₂ -Rich Stream by Gold Single-Atom Catalysts. ACS Catalysis, 2015, 5, 6249-6254.	11.2	380
87	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. Nature Communications, 2014, 5, 5634.	12.8	890
88	Structural and catalytic properties of supported Ni-Ir alloy catalysts for H ₂ generation via hydrous hydrazine decomposition. Applied Catalysis B: Environmental, 2014, 147, 779-788.	20.2	116
89	Promotional effect of Pd single atoms on Au nanoparticles supported on silica for the selective hydrogenation of acetylene in excess ethylene. New Journal of Chemistry, 2014, 38, 2043.	2.8	151
90	Rapid and sensitive analysis of parishin and its metabolites in rat plasma using ultra high performance liquid chromatography-fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 973, 104-109.	2.3	17

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91	RuO ₂ /rutile-TiO ₂ : a superior catalyst for N ₂ O decomposition. Journal of Materials Chemistry A, 2014, 2, 5178-5181.	10.3	45
92	Crystal phase effects on the structure and performance of ruthenium nanoparticles for CO ₂ hydrogenation. Catalysis Science and Technology, 2014, 4, 2058-2063.	4.1	77
93	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. ACS Catalysis, 2014, 4, 1546-1553.	11.2	221
94	Aerobic oxidative coupling of alcohols and amines over Au@Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. Green Chemistry, 2013, 15, 2680.	9.0	114
95	Understanding the synergistic effects of gold bimetallic catalysts. Journal of Catalysis, 2013, 308, 258-271.	6.2	178
96	Remarkable Performance of Ir ₁ /FeO _x Single-Atom Catalyst in Water Gas Shift Reaction. Journal of the American Chemical Society, 2013, 135, 15314-15317.	13.7	811
97	Selective Hydrogenation of Acetylene over SBA-15 Supported Au-Cu Bimetallic Catalysts. Journal of the Chinese Chemical Society, 2013, 60, 907-914.	1.4	24
98	Constructing the Supporting Service, Education Guidance, Management System of Network Education and Examination. , 2013, , .		2
99	Strong Metal-Support Interactions between Gold Nanoparticles and ZnO Nanorods in CO Oxidation. Journal of the American Chemical Society, 2012, 134, 10251-10258.	13.7	518
100	Corking and Uncorking a Catalytic Yolk-Shell Nanoreactor: Stable Gold Catalyst in Hollow Silica Nanosphere. Journal of Physical Chemistry Letters, 2011, 2, 2984-2988.	4.6	72
101	Structural changes of Au-Cu bimetallic catalysts in CO oxidation: In situ XRD, EPR, XANES, and FT-IR characterizations. Journal of Catalysis, 2011, 278, 288-296.	6.2	260
102	Identification of Angiotensin Converting Enzyme Inhibitors in Peptides Mixture of Hydrolyzed Red Deer Plasma with Proteomic Approach. Chinese Journal of Chemistry, 2010, 28, 1665-1672.	4.9	13
103	Synthesis of Thermally Stable and Highly Active Bimetallic Au-Ag Nanoparticles on Inert Supports. Chemistry of Materials, 2009, 21, 410-418.	6.7	262
104	Au-Cu Alloy nanoparticles confined in SBA-15 as a highly efficient catalyst for CO oxidation. Chemical Communications, 2008, , 3187.	4.1	288