Zhang Tao

List of Publications by Year
in descending order

225 papers	44,947 citations	3149 92 h-index	1928 207 g-index
227 all docs	227 docs citations	227 times ranked	23600 citing authors

#	Article	IF	Citations
1	Mechanistic understanding and design of non-noble metal-based single-atom catalysts supported on two-dimensional materials for CO₂ electroreduction. Journal of Materials Chemistry A, 2022, 10, 5813-5834.	5.2	28
2	Synthesis of renewable alkylated decalins with <i>p</i>-quinone and 2-methyl-2,4-pentanediol. Sustainable Energy and Fuels, 2022, 6, 834-840.	2.5	5
3	Heteroâ€Lattice Intergrown and Robust MOF Membranes for Polyol Upgrading. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15
4	Heteroâ€Lattice Intergrown and Robust MOF Membranes for Polyol Upgrading. Angewandte Chemie, 2022, 134, .	1.6	3
5	Strong Metalâ€"Support Interaction of Ru on TiO₂ Derived from the Co-Reduction Mechanism of Ru_{<i>x</i>}Ti_{1â€"<i>x</i>}O₂ Interphase. ACS Catalysis, 2022, 12, 1697-1705.	5.5	49
6	A durable Ni/La-Y catalyst for efficient hydrogenation of Î³-valerolactone into pentanoic biofuels. Journal of Energy Chemistry, 2022, 70, 347-355.	7.1	18
7	Catalytic hydrogenation of maleic anhydride to Î³-butyrolactone over a high-performance hierarchical Ni-Zr-MFI catalyst. Journal of Catalysis, 2022, 410, 69-83.	3.1	9
8	Photo-thermo semi-hydrogenation of acetylene on Pd1/TiO2 single-atom catalyst. Nature Communications, 2022, 13, 2648.	5.8	61
9	Synergy between Ru and WO<i>_x</i> Enables Efficient Hydrodeoxygenation of Primary Amides to Amines. ACS Catalysis, 2022, 12, 6302-6312.	5.5	18
10	Active and stable Cu doped NiMgAlO catalysts for upgrading ethanol to n-butanol. Journal of Energy Chemistry, 2022, 72, 306-317.	7.1	12
11	Introducing Coâ€"O Moiety to Coâ€"Nâ€"C Single-Atom Catalyst for Ethylbenzene Dehydrogenation. ACS Catalysis, 2022, 12, 7760-7772.	5.5	23
12	Transition-metal-free synthesis of pyrimidines from lignin Î²-O-4 segments via a one-pot multi-component reaction. Nature Communications, 2022, 13, .	5.8	52
13	Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. Journal of the American Chemical Society, 2022, 144, 12062-12071.	6.6	192
14	Bioinspired copper singleâ€atom nanozyme as a superoxide dismutaseâ€like antioxidant for sepsis treatment. Exploration, 2022, 2, .	5.4	81
15	Local structure of Pt species dictates remarkable performance on Pt/Al2O3 for preferential oxidation of CO in H2. Applied Catalysis B: Environmental, 2021, 282, 119588.	10.8	41
16	Single-atom Pt promoted Mo2C for electrochemical hydrogen evolution reaction. Journal of Energy Chemistry, 2021, 57, 371-377.	7.1	69
17	Synthesis of renewable aviation fuel additives with aromatic aldehydes and methyl isobutyl ketone under solvent-free conditions. Sustainable Energy and Fuels, 2021, 5, 556-563.	2.5	4
18	Synthesis of bio-based methylcyclopentadiene via direct hydrodeoxygenation of 3-methylcyclopent-2-enone derived from cellulose. Nature Communications, 2021, 12, 46.	5.8	27

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19	Synthesis of renewable alkylated naphthalenes with benzaldehyde and angelica lactone. Green Chemistry, 2021, 23, 5474-5480.	4.6	0
20	Advances in catalytic dehydrogenation of ethanol to acetaldehyde. Green Chemistry, 2021, 23, 7902-7916.	4.6	41
21	Direct Synthesis of Methylcyclopentadiene with 2,5-Hexanedione over Zinc Molybdates. ACS Catalysis, 2021, 11, 4810-4820.	5.5	19
22	High-Efficiency Water Gas Shift Reaction Catalysis on Î±-MoC Promoted by Single-Atom Ir Species. ACS Catalysis, 2021, 11, 5942-5950.	5.5	65
23	Promoting the Effect of Au on the Selective Hydrogenolysis of Glycerol to 1,3-Propanediol over the Pt/WO_{<i>x</i>}/Al₂O₃ Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 5705-5715.	3.2	26
24	Power-to-X: Lighting the Path to a Net-Zero-Emission Future. ACS Sustainable Chemistry and Engineering, 2021, 9, 7179-7181.	3.2	39
25	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO₂ Reduction. ACS Catalysis, 2021, 11, 7292-7301.	5.5	51
26	Highly selective and robust single-atom catalyst Ru1/NC for reductive amination of aldehydes/ketones. Nature Communications, 2021, 12, 3295.	5.8	152
27	Sustainable Production of Benzylamines from Lignin. Angewandte Chemie - International Edition, 2021, 60, 20666-20671.	7.2	66
28	Sustainable Production of Benzylamines from Lignin. Angewandte Chemie, 2021, 133, 20834-20839.	1.6	4
29	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N₃ as an Active Site for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2021, 143, 14530-14539.	6.6	218
30	Zeolite-Encapsulated Cu Nanoparticles for the Selective Hydrogenation of Furfural to Furfuryl Alcohol. ACS Catalysis, 2021, 11, 10246-10256.	5.5	69
31	Catalytic Aerobic Oxidation of Lignocellulose-Derived Levulinic Acid in Aqueous Solution: A Novel Route to Synthesize Dicarboxylic Acids for Bio-Based Polymers. ACS Catalysis, 2021, 11, 11588-11596.	5.5	13
32	Complete conversion of lignocellulosic biomass to mixed organic acids and ethylene glycol <i>via</i> cascade steps. Green Chemistry, 2021, 23, 2427-2436.	4.6	23
33	Heterogeneous catalysts for CO₂hydrogenation to formic acid/formate: from nanoscale to single atom. Energy and Environmental Science, 2021, 14, 1247-1285.	15.6	152
34	The new WEB-accessible online database of the MÃ¶ssbauer effect data center. Hyperfine Interactions, 2021, 242, 1.	0.2	1
35	Single-Atom Catalysis: Far beyond the Matter of Metal Dispersion. Nano Letters, 2021, 21, 9835-9837.	4.5	35
36	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. Chemical Reviews, 2020, 120, 683-733.	23.0	871

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37	Improving PMS oxidation of organic pollutants by single cobalt atom catalyst through hybrid radical and non-radical pathways. Applied Catalysis B: Environmental, 2020, 263, 118350.	10.8	191
38	Rhodium-terpyridine catalyzed redox-neutral depolymerization of lignin in water. Green Chemistry, 2020, 22, 33-38.	4.6	51
39	On the mechanism of H2 activation over single-atom catalyst: An understanding of Pt1/WO in the hydrogenolysis reaction. Chinese Journal of Catalysis, 2020, 41, 524-532.	6.9	50
40	Pd1/CeO2 single-atom catalyst for alkoxycarbonylation of aryl iodides. Science China Materials, 2020, 63, 959-964.	3.5	24
41	Tuning selectivity of CO₂ hydrogenation by modulating the strong metalâ€“support interaction over Ir/TiO₂ catalysts. Green Chemistry, 2020, 22, 6855-6861.	4.6	42
42	Nonradical Oxidation of Pollutants with Single-Atom-Fe(III)-Activated Persulfate: Fe(V) Being the Possible Intermediate Oxidant. Environmental Science & Technology, 2020, 54, 14057-14065.	4.6	190
43	Identification of Active Sites on High-Performance Pt/Al₂O₃ Catalyst for Cryogenic CO Oxidation. ACS Catalysis, 2020, 10, 8815-8824.	5.5	54
44	Controlling CO 2 Hydrogenation Selectivity by Metalâ€Supported Electron Transfer. Angewandte Chemie, 2020, 132, 20158-20164.	1.6	8
45	Controlling CO₂ Hydrogenation Selectivity by Metalâ€Supported Electron Transfer. Angewandte Chemie - International Edition, 2020, 59, 19983-19989.	7.2	114
46	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. CheM, 2020, 6, 3440-3454.	5.8	231
47	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. ACS Catalysis, 2020, 10, 13624-13629.	5.5	63
48	Highâ€Density and Thermally Stable Palladium Singleâ€Atom Catalysts for Chemoselective Hydrogenations. Angewandte Chemie - International Edition, 2020, 59, 21613-21619.	7.2	103
49	Highâ€Density and Thermally Stable Palladium Singleâ€Atom Catalysts for Chemoselective Hydrogenations. Angewandte Chemie, 2020, 132, 21797-21803.	1.6	19
50	Single-Atom Catalysts Based on the Metalâ€“Oxide Interaction. Chemical Reviews, 2020, 120, 11986-12043.	23.0	486
51	Ru/TiO₂ Catalysts with Size-Dependent Metal/Support Interaction for Tunable Reactivity in Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2020, 10, 12967-12975.	5.5	83
52	Modulating <i>trans</i>-imination and hydrogenation towards the highly selective production of primary diamines from dialdehydes. Green Chemistry, 2020, 22, 6897-6901.	4.6	32
53	Effect of IB-metal on Ni/SiO2 catalyst for selective hydrogenation of acetylene. Chinese Journal of Catalysis, 2020, 41, 1099-1108.	6.9	18
54	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. Nature Communications, 2020, 11, 1263.	5.8	198

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55	Understanding the deactivation behavior of Pt/WO3/Al2O3 catalyst in the glycerol hydrogenolysis reaction. Chinese Journal of Catalysis, 2020, 41, 1261-1267.	6.9	30
56	Taking on all of the biomass for conversion. Science, 2020, 367, 1305-1306.	6.0	53
57	A highly active Rh₁/CeO₂ single-atom catalyst for low-temperature CO oxidation. Chemical Communications, 2020, 56, 4870-4873.	2.2	62
58	Further development of the database of the MÃ¶ssbauer Effect Data Center. Hyperfine Interactions, 2020, 241, 1.	0.2	2
59	Tuning reactivity of Fischerâ€"Tropsch synthesis by regulating TiOx overlayer over Ru/TiO2 nanocatalysts. Nature Communications, 2020, 11, 3185.	5.8	114
60	A Hydrothermally Stable Irreducible Oxideâ€Modified Pd/MgAl₂O₄ Catalyst for Methane Combustion. Angewandte Chemie, 2020, 132, 18680-18684.	1.6	14
61	A Hydrothermally Stable Irreducible Oxideâ€Modified Pd/MgAl₂O₄ Catalyst for Methane Combustion. Angewandte Chemie - International Edition, 2020, 59, 18522-18526.	7.2	64
62	Styrene Hydroformylation with In Situ Hydrogen: Regioselectivity Control by Coupling with the Lowâ€Temperature Waterâ€"Gas Shift Reaction. Angewandte Chemie - International Edition, 2020, 59, 7430-7434.	7.2	74
63	State of the art and perspectives in heterogeneous catalysis of CO₂ hydrogenation to methanol. Chemical Society Reviews, 2020, 49, 1385-1413.	18.7	605
64	Exploring the Reaction Paths in the Consecutive Fe-Based FT Catalystâ€"Zeolite Process for Syngas Conversion. ACS Catalysis, 2020, 10, 3797-3806.	5.5	37
65	Catalytic upgrading of ethanol to butanol over a binary catalytic system of FeNiO and LiOH. Chinese Journal of Catalysis, 2020, 41, 672-678.	6.9	20
66	Strong Metalâ€"Support Interactions between Pt Single Atoms and TiO₂. Angewandte Chemie, 2020, 132, 11922-11927.	1.6	46
67	Strong Metalâ€"Support Interactions between Pt Single Atoms and TiO₂. Angewandte Chemie - International Edition, 2020, 59, 11824-11829.	7.2	309
68	Dual Metal Active Sites in an Ir₁/FeO_{<i>x</i>}Singleâ€Atom Catalyst: A Redox Mechanism for the Waterâ€Gas Shift Reaction. Angewandte Chemie - International Edition, 2020, 59, 12868-12875.	7.2	102
69	One-Pot Production of Cellulosic Ethanol via Tandem Catalysis over a Multifunctional Mo/Pt/WOx Catalyst. Joule, 2019, 3, 1937-1948.	11.7	73
70	Supported Nobleâ€Metal Single Atoms for Heterogeneous Catalysis. Advanced Materials, 2019, 31, e1902031.	11.1	207
71	Synthesis of ethanol and its catalytic conversion. Advances in Catalysis, 2019, 64, 89-191.	0.1	13
72	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. CheM, 2019, 5, 3207-3219.	5.8	131

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73	Remarkable active-site dependent H2O promoting effect in CO oxidation. Nature Communications, 2019, 10, 3824.	5.8	96
74	Synthesis of Decaline-Type Thermal-Stable Jet Fuel Additives with Cycloketones. ACS Sustainable Chemistry and Engineering, 2019, 7, 17354-17361.	3.2	21
75	Unraveling the coordination structure-performance relationship in Pt1/Fe2O3 single-atom catalyst. Nature Communications, 2019, 10, 4500.	5.8	279
76	Mn decorated Na/Fe catalysts for CO₂ hydrogenation to light olefins. Catalysis Science and Technology, 2019, 9, 456-464.	2.1	96
77	Iridium Single-Atom Catalyst Performing a Quasi-homogeneous Hydrogenation Transformation of CO2 to Formate. CheM, 2019, 5, 693-705.	5.8	181
78	Effective Hydrogenolysis of Glycerol to 1,3â€Propanediol over Metalâ€Acid Concerted Pt/WO_x/Al₂O₃ Catalysts. ChemCatChem, 2019, 11, 3903-3912.	1.8	66
79	Making JPâ€10 Superfuel Affordable with a Lignocellulosic Platform Compound. Angewandte Chemie - International Edition, 2019, 58, 12154-12158.	7.2	78
80	Zeolite-supported metal catalysts for selective hydrodeoxygenation of biomass-derived platform molecules. Green Chemistry, 2019, 21, 3744-3768.	4.6	200
81	Transition metal carbide catalysts for biomass conversion: A review. Applied Catalysis B: Environmental, 2019, 254, 510-522.	10.8	149
82	Mild Redox-Neutral Depolymerization of Lignin with a Binuclear Rh Complex in Water. ACS Catalysis, 2019, 9, 4441-4447.	5.5	74
83	Synthesis of gasoline and jet fuel range cycloalkanes and aromatics from poly(ethylene terephthalate) waste. Green Chemistry, 2019, 21, 2709-2719.	4.6	61
84	Integrated Conversion of Cellulose to High-Density Aviation Fuel. Joule, 2019, 3, 1028-1036.	11.7	113
85	Explore the Unknownâ€”The Value of Basic Research. Angewandte Chemie - International Edition, 2019, 58, 17882-17884.	7.2	2
86	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. Nature Communications, 2019, 10, 5181.	5.8	398
87	Das Unbekannte erforschen â€“ der Wert der Grundlagenforschung. Angewandte Chemie, 2019, 131, 18048-18050.	1.6	2
88	Unlock the Compact Structure of Lignocellulosic Biomass by Mild Ball Milling for Ethylene Glycol Production. ACS Sustainable Chemistry and Engineering, 2019, 7, 679-687.	3.2	62
89	Effect of Na Promoter on Fe-Based Catalyst for CO₂ Hydrogenation to Alkenes. ACS Sustainable Chemistry and Engineering, 2019, 7, 925-932.	3.2	117
90	ReO_{<i>x</i>}/AC-Catalyzed Cleavage of Câ€“O Bonds in Lignin Model Compounds and Alkaline Lignins. ACS Sustainable Chemistry and Engineering, 2019, 7, 208-215.	3.2	47

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91	Catalytic conversion of glucose to small polyols over a binary catalyst of vanadium modified beta zeolite and Ru/C. Journal of Energy Chemistry, 2019, 34, 88-95.	7.1	10
92	Non defect-stabilized thermally stable single-atom catalyst. Nature Communications, 2019, 10, 234.	5.8	452
93	Production of 1,2-Cyclohexanedicarboxylates from Diacetone Alcohol and Fumarates. ACS Sustainable Chemistry and Engineering, 2019, 7, 2980-2988.	3.2	10
94	The influence of intimacy on the â€˜iterative reactionsâ€™ during OX-ZEO process for aromatic production. Journal of Energy Chemistry, 2019, 35, 60-65.	7.1	25
95	Single-Atom Catalysis toward Efficient CO₂ Conversion to CO and Formate Products. Accounts of Chemical Research, 2019, 52, 656-664.	7.6	348
96	Catalytic cascade conversion of furfural to 1,4-pentanediol in a single reactor. Green Chemistry, 2018, 20, 1770-1776.	4.6	71
97	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acidâ€“Base Pair. Journal of the American Chemical Society, 2018, 140, 4172-4181.	6.6	157
98	A Durable Nickel Singleâ€Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. Angewandte Chemie - International Edition, 2018, 57, 7071-7075.	7.2	243
99	Synthesis of 1,4â€Cyclohexanedimethanol, 1,4â€Cyclohexanedicarboxylic Acid and 1,2â€Cyclohexanedicarboxylates from Formaldehyde, Crotonaldehyde and Acrylate/Fumarate. Angewandte Chemie - International Edition, 2018, 57, 6901-6905.	7.2	26
100	Hydrogenolysis of methyl glycolate to ethanol over a Ptâ€“Cu/SiO₂single-atom alloy catalyst: a further step from cellulose to ethanol. Green Chemistry, 2018, 20, 2142-2150.	4.6	77
101	Atomically dispersed Ni(i) as the active site for electrochemical CO2 reduction. Nature Energy, 2018, 3, 140-147.	19.8	1,594
102	A Durable Nickel Singleâ€Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. Angewandte Chemie, 2018, 130, 7189-7193.	1.6	64
103	Maximizing the Number of Interfacial Sites in Singleâ€Atom Catalysts for the Highly Selective, Solventâ€Free Oxidation of Primary Alcohols. Angewandte Chemie - International Edition, 2018, 57, 7795-7799.	7.2	151
104	<i>In situ</i> synthesis of metal clusters encapsulated within small-pore zeolites <i>via</i> a dry gel conversion method. Nanoscale, 2018, 10, 11320-11327.	2.8	25
105	Kinetic study on catalytic dehydration of 1,2-propanediol and 1,2-butanediol over H-Beta for bio-ethylene glycol purification. Chemical Engineering Journal, 2018, 335, 530-538.	6.6	15
106	Tungstenâ€Based Bimetallic Catalysts for Selective Cleavage of Lignin Câ^'O Bonds. ChemCatChem, 2018, 10, 415-421.	1.8	52
107	Unique role of MÃ¶ssbauer spectroscopy in assessing structural features of heterogeneous catalysts. Applied Catalysis B: Environmental, 2018, 224, 518-532.	10.8	83
108	Unravelling the enigma of lignin^{OX}: can the oxidation of lignin be controlled?. Chemical Science, 2018, 9, 702-711.	3.7	64

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109	Exceptional Antisintering Gold Nanocatalyst for Diesel Exhaust Oxidation. Nano Letters, 2018, 18, 6489-6493.	4.5	19
110	Powering the Future with Liquid Sunshine. Joule, 2018, 2, 1925-1949.	11.7	499
111	Single Cobalt Atoms Anchored on Porous N-Doped Graphene with Dual Reaction Sites for Efficient Fenton-like Catalysis. Journal of the American Chemical Society, 2018, 140, 12469-12475.	6.6	1,044
112	Pt/Nb-WO x for the chemoselective hydrogenolysis of glycerol to 1,3-propanediol: Nb dopant pacifying the over-reduction of WO x supports. Chinese Journal of Catalysis, 2018, 39, 1027-1037.	6.9	36
113	Heterogeneous single-atom catalysis. Nature Reviews Chemistry, 2018, 2, 65-81.	13.8	2,728
114	Single-atom catalyst: a rising star for green synthesis of fine chemicals. National Science Review, 2018, 5, 653-672.	4.6	258
115	The influence of alkali-treated zeolite on the oxideâ€“zeolite syngas conversion process. Catalysis Science and Technology, 2018, 8, 4338-4348.	2.1	21
116	Effect of group IB metals on the dehydrogenation of propane to propylene over anti-sintering Pt/MgAl2O4. Journal of Catalysis, 2018, 366, 115-126.	3.1	62
117	Selective conversion of concentrated glucose to 1,2-propylene glycol and ethylene glycol by using RuSn/AC catalysts. Applied Catalysis B: Environmental, 2018, 239, 300-308.	10.8	49
118	Effects of divalent metal ions of hydrotalcites on catalytic behavior of supported gold nanocatalysts for chemoselective hydrogenation of 3-nitrostyrene. Journal of Catalysis, 2018, 364, 174-182.	3.1	35
119	Synthesis of high-density aviation fuels with methyl benzaldehyde and cyclohexanone. Green Chemistry, 2018, 20, 3753-3760.	4.6	29
120	Catalytic performance of the Pt/TiO2 catalysts in reverse water gas shift reaction: Controlled product selectivity and a mechanism study. Catalysis Today, 2017, 281, 312-318.	2.2	106
121	Promoting role of potassium in the reverse water gas shift reaction on Pt/mullite catalyst. Catalysis Today, 2017, 281, 319-326.	2.2	98
122	Oxygen surface groups of activated carbon steer the chemoselective hydrogenation of substituted nitroarenes over nickel nanoparticles. Chemical Communications, 2017, 53, 1969-1972.	2.2	53
123	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. ACS Catalysis, 2017, 7, 1491-1500.	5.5	374
124	ZnAlâ€Hydrotalciteâ€Supported Au₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3â€Nitrostyrene. Angewandte Chemie - International Edition, 2017, 56, 2709-2713.	7.2	127
125	Production of Primary Amines by Reductive Amination of Biomassâ€Derived Aldehydes/Ketones. Angewandte Chemie - International Edition, 2017, 56, 3050-3054.	7.2	243
126	Synthesis of Renewable High-Density Fuel with Cyclopentanone Derived from Hemicellulose. ACS Sustainable Chemistry and Engineering, 2017, 5, 1812-1817.	3.2	60

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127	Sustainable production of pyromellitic acid with pinacol and diethyl maleate. Green Chemistry, 2017, 19, 1663-1667.	4.6	21
128	Solid Acid-Catalyzed Dehydration of Pinacol Derivatives in Ionic Liquid: Simple and Efficient Access to Branched 1,3-Dienes. ACS Catalysis, 2017, 7, 2576-2582.	5.5	16
129	Selectivity Control for Cellulose to Diols: Dancing on Eggs. ACS Catalysis, 2017, 7, 1939-1954.	5.5	162
130	FeO_x supported singleâ€atom Pd bifunctional catalyst for water gas shift reaction. AIChE Journal, 2017, 63, 4022-4031.	1.8	70
131	Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO_x catalysts. Chemical Science, 2017, 8, 5126-5131.	3.7	90
132	Sustainable Production of <i>o</i>â€Xylene from Biomassâ€Derived Pinacol and Acrolein. ChemSusChem, 2017, 10, 2880-2885.	3.6	18
133	Theoretical Insights and the Corresponding Construction of Supported Metal Catalysts for Highly Selective CO₂ to CO Conversion. ACS Catalysis, 2017, 7, 4613-4620.	5.5	104
134	One-pot synthesis of 2-hydroxymethyl-5-methylpyrazine from renewable 1,3-dihydroxyacetone. Green Chemistry, 2017, 19, 3515-3519.	4.6	17
135	Production of C₅/C₆ Sugar Alcohols by Hydrolytic Hydrogenation of Raw Lignocellulosic Biomass over Zr Based Solid Acids Combined with Ru/C. ACS Sustainable Chemistry and Engineering, 2017, 5, 5940-5950.	3.2	34
136	Promotion effects of potassium on the activity and selectivity of Pt/zeolite catalysts for reverse water gas shift reaction. Applied Catalysis B: Environmental, 2017, 216, 95-105.	10.8	122
137	Selective removal of 1,2â€propanediol and 1,2â€butanediol from bioâ€ethylene glycol by catalytic reaction. AIChE Journal, 2017, 63, 4032-4042.	1.8	27
138	Isolation of Pd atoms by Cu for semi-hydrogenation of acetylene: Effects of Cu loading. Chinese Journal of Catalysis, 2017, 38, 1540-1548.	6.9	44
139	Classical strong metalâ€“support interactions between gold nanoparticles and titanium dioxide. Science Advances, 2017, 3, e1700231.	4.7	361
140	Thermally stable single atom Pt/m-Al2O3 for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	5.8	545
141	Synthesis of Diesel and Jet Fuel Range Alkanes with Furfural and Angelica Lactone. ACS Catalysis, 2017, 7, 5880-5886.	5.5	85
142	Selective hydrogenation of acetylene in an ethylene-rich stream over silica supported Ag-Ni bimetallic catalysts. Applied Catalysis A: General, 2017, 545, 90-96.	2.2	45
143	Crystal Plane Effect of ZnO on the Catalytic Activity of Gold Nanoparticles for the Acetylene Hydrogenation Reaction. Journal of Physical Chemistry C, 2017, 121, 19727-19734.	1.5	17
144	SiO 2 -supported Au-Ni bimetallic catalyst for the selective hydrogenation of acetylene. Chinese Journal of Catalysis, 2017, 38, 1338-1346.	6.9	42

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145	Discriminating Catalytically Active FeN_{<i>x</i>} Species of Atomically Dispersed Feâ€“Nâ€“C Catalyst for Selective Oxidation of the Câ€“H Bond. Journal of the American Chemical Society, 2017, 139, 10790-10798.	6.6	738
146	Direct catalytic hydrogenation of CO2 to formate over a Schiff-base-mediated gold nanocatalyst. Nature Communications, 2017, 8, 1407.	5.8	177
147	Experimental investigation and theoretical exploration of single-atom electrocatalysis in hybrid photovoltaics: The powerful role of Pt atoms in triiodide reduction. Nano Energy, 2017, 39, 1-8.	8.2	25
148	Valorization of Lignin to Simple Phenolic Compounds over Tungsten Carbide: Impact of Lignin Structure. ChemSusChem, 2017, 10, 523-532.	3.6	141
149	Enhanced performance of Rh₁/TiO₂ catalyst without methanation in waterâ€gas shift reaction. AICHE Journal, 2017, 63, 2081-2088.	1.8	74
150	Selective Hydrogenolysis of Glycerol to 1,3â€Propanediol: Manipulating the Frustrated Lewis Pairs by Introducing Gold to Pt/WO_{<i>x</i>}. ChemSusChem, 2017, 10, 819-824.	3.6	89
151	Hydrodeoxygenation of furans over Pd-FeOx/SiO2 catalyst under atmospheric pressure. Applied Catalysis B: Environmental, 2017, 201, 266-277.	10.8	91
152	Ethylene glycol production from glucose over Wâ€Ru catalysts: Maximizing yield by kinetic modeling and simulation. AICHE Journal, 2017, 63, 2072-2080.	1.8	38
153	Catalytically Active Rh Subâ€Nanoclusters on TiO₂ for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie - International Edition, 2016, 55, 2820-2824.	7.2	127
154	Hydrogenolysis of Glycerol to 1,3â€propanediol under Low Hydrogen Pressure over WO_{<i>x</i>}â€Supported Single/Pseudoâ€Single Atom Pt Catalyst. ChemSusChem, 2016, 9, 784-790.	3.6	140
155	Recent progress in CO oxidation over Pt-group-metal catalysts at low temperatures. Chinese Journal of Catalysis, 2016, 37, 1805-1813.	6.9	97
156	Pd/ZnO catalysts with different origins for high chemoselectivity in acetylene semi-hydrogenation. Chinese Journal of Catalysis, 2016, 37, 692-699.	6.9	46
157	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
158	Hydroformylation of Olefins by a Rhodium Singleâ€Atom Catalyst with Activity Comparable to RhCl(PPh₃)₃. Angewandte Chemie - International Edition, 2016, 55, 16054-16058.	7.2	376
159	Single atom gold catalysts for low-temperature CO oxidation. Chinese Journal of Catalysis, 2016, 37, 1580-1586.	6.9	85
160	Direct Catalytic Hydrogenolysis of Kraft Lignin to Phenols in Choline-Derived Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2016, 4, 3850-3856.	3.2	54
161	Theoretical investigations of non-noble metal single-atom catalysis: Ni₁/FeO_x for CO oxidation. Catalysis Science and Technology, 2016, 6, 6886-6892.	2.1	79
162	Single-atom dispersed Coâ€“Nâ€“C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. Chemical Science, 2016, 7, 5758-5764.	3.7	571

#	ARTICLE	IF	CITATIONS
163	Strong Metalâ€“Support Interactions between Gold Nanoparticles and Nonoxides. Journal of the American Chemical Society, 2016, 138, 56-59.	6.6	357
164	Influence of pretreatment temperature on catalytic performance of rutile TiO2-supported ruthenium catalyst in CO2 methanation. Journal of Catalysis, 2016, 333, 227-237.	3.1	154
165	Selectivity-Switchable Conversion of Cellulose to Glycols over Niâ€“Sn Catalysts. ACS Catalysis, 2016, 6, 191-201.	5.5	83
166	Selective aldol condensation of biomass-derived levulinic acid and furfural in aqueous-phase over MgO and ZnO. Green Chemistry, 2016, 18, 3430-3438.	4.6	76
167	PdZn Intermetallic Nanostructure with Pdâ€“Znâ€“Pd Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. ACS Catalysis, 2016, 6, 1054-1061.	5.5	334
168	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. Green Chemistry, 2016, 18, 342-359.	4.6	254
169	Chemoselective hydrogenation of 3-nitrostyrene over a Pt/FeO_x pseudo-single-atom-catalyst in CO₂-expanded liquids. Green Chemistry, 2016, 18, 1332-1338.	4.6	46
170	Mechanism and Kinetic Analysis of the Hydrogenolysis of Cellulose to Polyols. Green Chemistry and Sustainable Technology, 2016, , 227-260.	0.4	5
171	Synthesis and Characterization of Poly(ethylene terephthalate) from Biomass-Based Ethylene Glycol: Effects of Miscellaneous Diols. Industrial & Engineering Chemistry Research, 2015, 54, 5862-5869.	1.8	42
172	Remarkable effect of extremely dilute H2SO4 on the cellulose conversion to ethylene glycol. Applied Catalysis A: General, 2015, 502, 65-70.	2.2	20
173	Versatile Nickelâ€“Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. ACS Catalysis, 2015, 5, 874-883.	5.5	92
174	Supported Au-Ni nano-alloy catalysts for the chemoselective hydrogenation of nitroarenes. Chinese Journal of Catalysis, 2015, 36, 160-167.	6.9	37
175	Ultrastable single-atom gold catalysts with strong covalent metal-support interaction (CMSI). Nano Research, 2015, 8, 2913-2924.	5.8	422
176	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. ACS Catalysis, 2015, 5, 3717-3725.	5.5	545
177	Little do more: a highly effective Pt₁/FeO_x single-atom catalyst for the reduction of NO by H₂. Chemical Communications, 2015, 51, 7911-7914.	2.2	107
178	Coâ€“Nâ€“C Catalyst for Câ€“C Coupling Reactions: On the Catalytic Performance and Active Sites. ACS Catalysis, 2015, 5, 6563-6572.	5.5	260
179	Microwave-assisted fast conversion of lignin model compounds and organosolv lignin over methyltrioxorhenium in ionic liquids. RSC Advances, 2015, 5, 84967-84973.	1.7	38
180	Highly Efficient Catalysis of Preferential Oxidation of CO in H₂-Rich Stream by Gold Single-Atom Catalysts. ACS Catalysis, 2015, 5, 6249-6254.	5.5	380

#	ARTICLE	IF	CITATIONS
181	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. Chemical Reviews, 2015, 115, 11559-11624.	23.0	2,200
182	Highly active Au1/Co3O4 single-atom catalyst for CO oxidation at room temperature. Chinese Journal of Catalysis, 2015, 36, 1505-1511.	6.9	93
183	Kinetic study of the competitive hydrogenation of glycolaldehyde and glucose on Ru/C with or without AMT. AIChE Journal, 2015, 61, 224-238.	1.8	49
184	Catalytic conversion of cellulosic biomass to ethylene glycol: Effects of inorganic impurities in biomass. Bioresource Technology, 2015, 175, 424-429.	4.8	48
185	Singleâ€Atom Catalysis in Mesoporous Photovoltaics: The Principle of Utility Maximization. Advanced Materials, 2014, 26, 8147-8153.	11.1	122
186	Comparison of cellobiose and glucose transformation to ethylene glycol. Chinese Journal of Catalysis, 2014, 35, 1811-1817.	6.9	25
187	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. Nature Communications, 2014, 5, 5634.	5.8	890
188	One-pot catalytic conversion of cellulose to ethylene glycol and other chemicals: From fundamental discovery to potential commercialization. Chinese Journal of Catalysis, 2014, 35, 602-613.	6.9	72
189	Ferric Oxide-Supported Pt Subnano Clusters for Preferential Oxidation of CO in H₂-Rich Gas at Room Temperature. ACS Catalysis, 2014, 4, 2113-2117.	5.5	96
190	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.	1.4	151
191	Synthesis of renewable high-density fuels using cyclopentanone derived from lignocellulose. Chemical Communications, 2014, 50, 2572.	2.2	143
192	Crystal phase effects on the structure and performance of ruthenium nanoparticles for CO₂ hydrogenation. Catalysis Science and Technology, 2014, 4, 2058-2063.	2.1	77
193	Supported Single Pt₁/Au₁ Atoms for Methanol Steam Reforming. ACS Catalysis, 2014, 4, 3886-3890.	5.5	204
194	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. ACS Catalysis, 2014, 4, 1546-1553.	5.5	221
195	Catalytic conversion of concentrated miscanthus in water for ethylene glycol production. AIChE Journal, 2014, 60, 2254-2262.	1.8	53
196	Synthesis of diesel and jet fuel range alkanes with furfural and ketones from lignocellulose under solvent free conditions. Green Chemistry, 2014, 16, 4879-4884.	4.6	97
197	Kinetic study of retroâ€aldol condensation of glucose to glycolaldehyde with ammonium metatungstate as the catalyst. AIChE Journal, 2014, 60, 3804-3813.	1.8	74
198	Catalysis by gold: New insights into the support effect. Nano Today, 2013, 8, 403-416.	6.2	211

#	ARTICLE	IF	CITATIONS
199	Understanding the synergistic effects of gold bimetallic catalysts. Journal of Catalysis, 2013, 308, 258-271.	3.1	178
200	Remarkable Performance of Ir₁/FeO_{<i>x</i>} Single-Atom Catalyst in Water Gas Shift Reaction. Journal of the American Chemical Society, 2013, 135, 15314-15317.	6.6	811
201	Catalytic Conversion of Cellulose to Ethylene Glycol over a Lowâ€Cost Binary Catalyst of Raney Ni and Tungstic Acid. ChemSusChem, 2013, 6, 652-658.	3.6	132
202	One-Pot Conversion of Cellulose to Ethylene Glycol with Multifunctional Tungsten-Based Catalysts. Accounts of Chemical Research, 2013, 46, 1377-1386.	7.6	420
203	Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis. Accounts of Chemical Research, 2013, 46, 1740-1748.	7.6	3,405
204	Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System. Industrial & Engineering Chemistry Research, 2013, 52, 9566-9572.	1.8	103
205	Mesoporous WO3 Supported Pt Catalyst for Hydrogenolysis of Glycerol to 1,3-Propanediol. Chinese Journal of Catalysis, 2012, 33, 1257-1261.	6.9	58
206	Recent Advances in Preferential Oxidation of CO Reaction over Platinum Group Metal Catalysts. ACS Catalysis, 2012, 2, 1165-1178.	5.5	378
207	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. Green Chemistry, 2012, 14, 614.	4.6	151
208	One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts: simultaneous conversion of cellulose, hemicellulose and lignin. Energy and Environmental Science, 2012, 5, 6383-6390.	15.6	358
209	Temperature-controlled phase-transfer catalysis for ethylene glycol production from cellulose. Chemical Communications, 2012, 48, 7052.	2.2	152
210	Design of a Highly Active Ir/Fe(OH)_{<i>x</i>} Catalyst: Versatile Application of Ptâ€Group Metals for the Preferential Oxidation of Carbon Monoxide. Angewandte Chemie - International Edition, 2012, 51, 2920-2924.	7.2	183
211	Selective Production of 1,2â€Propylene Glycol from Jerusalem Artichoke Tuber using Niâ€"W₂C/AC Catalysts. ChemSusChem, 2012, 5, 932-938.	3.6	74
212	Nickelâ€Promoted Tungsten Carbide Catalysts for Cellulose Conversion: Effect of Preparation Methods. ChemSusChem, 2012, 5, 939-944.	3.6	96
213	MÃ¶ssbauer spectroscopy database: past, present, future. Hyperfine Interactions, 2012, 204, 111-117.	0.2	6
214	Single-atom catalysis of CO oxidation using Pt1/FeOx. Nature Chemistry, 2011, 3, 634-641.	6.6	5,149
215	Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol. Industrial & Engineering Chemistry Research, 2011, 50, 6601-6608.	1.8	119
216	Structural changes of Auâ€"Cu bimetallic catalysts in CO oxidation: In situ XRD, EPR, XANES, and FT-IR characterizations. Journal of Catalysis, 2011, 278, 288-296.	3.1	260

#	ARTICLE	IF	CITATIONS
217	Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures. Chemical Communications, 2010, 46, 6935.	2.2	313
218	Transition Metalâ€"Tungsten Bimetallic Catalysts for the Conversion of Cellulose into Ethylene Glycol. ChemSusChem, 2010, 3, 63-66.	3.6	296
219	Catalytic Conversion of Cellulose to Ethylene Glycol over Tungsten Phosphide Catalysts. Chinese Journal of Catalysis, 2010, 31, 928-932.	6.9	69
220	A new 3D mesoporous carbon replicated from commercial silica as a catalyst support for direct conversion of cellulose into ethylene glycol. Chemical Communications, 2010, 46, 862-864.	2.2	249
221	Catalytic conversion of cellulose into ethylene glycol over supported carbide catalysts. Catalysis Today, 2009, 147, 77-85.	2.2	157
222	Synthesis of Thermally Stable and Highly Active Bimetallic Auâˆ'Ag Nanoparticles on Inert Supports. Chemistry of Materials, 2009, 21, 410-418.	3.2	262
223	Combined Experimental and Theoretical Investigation on the Selectivities of Ag, Au, and Pt Catalysts for Hydrogenation of Crotonaldehyde. Journal of Physical Chemistry C, 2009, 113, 20918-20926.	1.5	41
224	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickelâ€Promoted Tungsten Carbide Catalysts. Angewandte Chemie - International Edition, 2008, 47, 8510-8513.	7.2	671
225	Iridium Single-Atom Catalyst Laboring a Quasi-Homogeneous Hydrogenation Transformation of CO2 to Formate. SSRN Electronic Journal, 0, , .	0.4	1