

Zhang Tao

List of Publications by Year in descending order

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225
papers

44,947
citations

3159

92
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1934

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227
all docs

227
docs citations

227
times ranked

23600
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-atom catalysis of CO oxidation using Pt ₁ /FeO _x . <i>Nature Chemistry</i> , 2011, 3, 634-641.	13.6	5,149
2	Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis. <i>Accounts of Chemical Research</i> , 2013, 46, 1740-1748.	15.6	3,405
3	Heterogeneous single-atom catalysis. <i>Nature Reviews Chemistry</i> , 2018, 2, 65-81.	30.2	2,728
4	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. <i>Chemical Reviews</i> , 2015, 115, 11559-11624.	47.7	2,200
5	Atomically dispersed Ni(i) as the active site for electrochemical CO ₂ reduction. <i>Nature Energy</i> , 2018, 3, 140-147.	39.5	1,594
6	Single Cobalt Atoms Anchored on Porous N-Doped Graphene with Dual Reaction Sites for Efficient Fenton-like Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 12469-12475.	13.7	1,044
7	FeO _x -supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. <i>Nature Communications</i> , 2014, 5, 5634.	12.8	890
8	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. <i>Chemical Reviews</i> , 2020, 120, 683-733.	47.7	871
9	Remarkable Performance of Ir ₁ /FeO _x Single-Atom Catalyst in Water Gas Shift Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 15314-15317.	13.7	811
10	Discriminating Catalytically Active FeN _x Species of Atomically Dispersed Fe@N-C Catalyst for Selective Oxidation of the C-H Bond. <i>Journal of the American Chemical Society</i> , 2017, 139, 10790-10798.	13.7	738
11	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8510-8513.	13.8	671
12	State of the art and perspectives in heterogeneous catalysis of CO ₂ hydrogenation to methanol. <i>Chemical Society Reviews</i> , 2020, 49, 1385-1413.	38.1	605
13	Single-atom dispersed Co@N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. <i>Chemical Science</i> , 2016, 7, 5758-5764.	7.4	571
14	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. <i>ACS Catalysis</i> , 2015, 5, 3717-3725.	11.2	545
15	Thermally stable single atom Pt/m-Al ₂ O ₃ for selective hydrogenation and CO oxidation. <i>Nature Communications</i> , 2017, 8, 16100.	12.8	545
16	Powering the Future with Liquid Sunshine. <i>Joule</i> , 2018, 2, 1925-1949.	24.0	499
17	Single-Atom Catalysts Based on the Metal-Oxide Interaction. <i>Chemical Reviews</i> , 2020, 120, 11986-12043.	47.7	486
18	Non defect-stabilized thermally stable single-atom catalyst. <i>Nature Communications</i> , 2019, 10, 234.	12.8	452

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19	Ultrastable single-atom gold catalysts with strong covalent metal-support interaction (CMSI). <i>Nano Research</i> , 2015, 8, 2913-2924.	10.4	422
20	One-Pot Conversion of Cellulose to Ethylene Glycol with Multifunctional Tungsten-Based Catalysts. <i>Accounts of Chemical Research</i> , 2013, 46, 1377-1386.	15.6	420
21	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. <i>Nature Communications</i> , 2019, 10, 5181.	12.8	398
22	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.	11.2	380
23	Recent Advances in Preferential Oxidation of CO Reaction over Platinum Group Metal Catalysts. <i>ACS Catalysis</i> , 2012, 2, 1165-1178.	11.2	378
24	Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh ₃) ₃ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16054-16058.	13.8	376
25	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
26	Classical strong metal-support interactions between gold nanoparticles and titanium dioxide. <i>Science Advances</i> , 2017, 3, e1700231.	10.3	361
27	One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts: simultaneous conversion of cellulose, hemicellulose and lignin. <i>Energy and Environmental Science</i> , 2012, 5, 6383-6390.	30.8	358
28	Strong Metal-Support Interactions between Gold Nanoparticles and Nonoxides. <i>Journal of the American Chemical Society</i> , 2016, 138, 56-59.	13.7	357
29	Single-Atom Catalysis toward Efficient CO ₂ Conversion to CO and Formate Products. <i>Accounts of Chemical Research</i> , 2019, 52, 656-664.	15.6	348
30	PdZn Intermetallic Nanostructure with Pd-Zn Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. <i>ACS Catalysis</i> , 2016, 6, 1054-1061.	11.2	334
31	Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures. <i>Chemical Communications</i> , 2010, 46, 6935.	4.1	313
32	Strong Metal-Support Interactions between Pt Single Atoms and TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11824-11829.	13.8	309
33	Transition Metal-Tungsten Bimetallic Catalysts for the Conversion of Cellulose into Ethylene Glycol. <i>ChemSusChem</i> , 2010, 3, 63-66.	6.8	296
34	Unraveling the coordination structure-performance relationship in Pt1/Fe ₂ O ₃ single-atom catalyst. <i>Nature Communications</i> , 2019, 10, 4500.	12.8	279
35	Synthesis of Thermally Stable and Highly Active Bimetallic Au-Ag Nanoparticles on Inert Supports. <i>Chemistry of Materials</i> , 2009, 21, 410-418.	6.7	262
36	Structural changes of Au-Cu bimetallic catalysts in CO oxidation: In situ XRD, EPR, XANES, and FT-IR characterizations. <i>Journal of Catalysis</i> , 2011, 278, 288-296.	6.2	260

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37	Co ^{II} -N ³ C Catalyst for C ² -C Coupling Reactions: On the Catalytic Performance and Active Sites. ACS Catalysis, 2015, 5, 6563-6572.	11.2	260
38	Single-atom catalyst: a rising star for green synthesis of fine chemicals. National Science Review, 2018, 5, 653-672.	9.5	258
39	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. Green Chemistry, 2016, 18, 342-359.	9.0	254
40	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.	4.1	249
41	Production of Primary Amines by Reductive Amination of Biomass-Derived Aldehydes/Ketones. Angewandte Chemie - International Edition, 2017, 56, 3050-3054.	13.8	243
42	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. Angewandte Chemie - International Edition, 2018, 57, 7071-7075.	13.8	243
43	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. Chem, 2020, 6, 3440-3454.	11.7	231
44	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
45	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N ₃ as an Active Site for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2021, 143, 14530-14539.	13.7	218
46	Catalysis by gold: New insights into the support effect. Nano Today, 2013, 8, 403-416.	11.9	211
47	Supported Noble-Metal Single Atoms for Heterogeneous Catalysis. Advanced Materials, 2019, 31, e1902031.	21.0	207
48	Supported Single Pt ₁ /Au ₁ Atoms for Methanol Steam Reforming. ACS Catalysis, 2014, 4, 3886-3890.	11.2	204
49	Zeolite-supported metal catalysts for selective hydrodeoxygenation of biomass-derived platform molecules. Green Chemistry, 2019, 21, 3744-3768.	9.0	200
50	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. Nature Communications, 2020, 11, 1263.	12.8	198
51	Ultrastable Hydroxyapatite/Titanium-Dioxide-Supported Gold Nanocatalyst with Strong Metal-Support Interaction for Carbon Monoxide Oxidation. Angewandte Chemie - International Edition, 2016, 55, 10606-10611.	13.8	192
52	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.	13.7	192
53	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.	20.2	191
54	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.	10.0	190

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55	Design of a Highly Active Ir/Fe(OH) _x Catalyst: Versatile Application of Pt-Group Metals for the Preferential Oxidation of Carbon Monoxide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2920-2924.	13.8	183
56	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
57	Understanding the synergistic effects of gold bimetallic catalysts. <i>Journal of Catalysis</i> , 2013, 308, 258-271.	6.2	178
58	Direct catalytic hydrogenation of CO ₂ to formate over a Schiff-base-mediated gold nanocatalyst. <i>Nature Communications</i> , 2017, 8, 1407.	12.8	177
59	Selectivity Control for Cellulose to Diols: Dancing on Eggs. <i>ACS Catalysis</i> , 2017, 7, 1939-1954.	11.2	162
60	Catalytic conversion of cellulose into ethylene glycol over supported carbide catalysts. <i>Catalysis Today</i> , 2009, 147, 77-85.	4.4	157
61	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
62	Influence of pretreatment temperature on catalytic performance of rutile TiO ₂ -supported ruthenium catalyst in CO ₂ methanation. <i>Journal of Catalysis</i> , 2016, 333, 227-237.	6.2	154
63	Temperature-controlled phase-transfer catalysis for ethylene glycol production from cellulose. <i>Chemical Communications</i> , 2012, 48, 7052.	4.1	152
64	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
65	Heterogeneous catalysts for CO ₂ hydrogenation to formic acid/formate: from nanoscale to single atom. <i>Energy and Environmental Science</i> , 2021, 14, 1247-1285.	30.8	152
66	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. <i>Green Chemistry</i> , 2012, 14, 614.	9.0	151
67	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> , 2014, 38, 2043.	2.8	151
68	Maximizing the Number of Interfacial Sites in Single-Atom Catalysts for the Highly Selective, Solvent-Free Oxidation of Primary Alcohols. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7795-7799.	13.8	151
69	Transition metal carbide catalysts for biomass conversion: A review. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 510-522.	20.2	149
70	Synthesis of renewable high-density fuels using cyclopentanone derived from lignocellulose. <i>Chemical Communications</i> , 2014, 50, 2572.	4.1	143
71	Valorization of Lignin to Simple Phenolic Compounds over Tungsten Carbide: Impact of Lignin Structure. <i>ChemSusChem</i> , 2017, 10, 523-532.	6.8	141
72	Hydrogenolysis of Glycerol to 1,3-Propanediol under Low Hydrogen Pressure over WO ₃ -Supported Single/Pseudo-Single Atom Pt Catalyst. <i>ChemSusChem</i> , 2016, 9, 784-790.	6.8	140

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73	Catalytic Conversion of Cellulose to Ethylene Glycol over a Low-Cost Binary Catalyst of Raney Ni and Tungstic Acid. <i>ChemSusChem</i> , 2013, 6, 652-658.	6.8	132
74	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. <i>CheM</i> , 2019, 5, 3207-3219.	11.7	131
75	Catalytically Active Rh Nanoclusters on TiO ₂ for CO Oxidation at Cryogenic Temperatures. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2820-2824.	13.8	127
76	ZnAl ₂ O ₄ -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
77	Single-Atom Catalysis in Mesoporous Photovoltaics: The Principle of Utility Maximization. <i>Advanced Materials</i> , 2014, 26, 8147-8153.	21.0	122
78	Promotion effects of potassium on the activity and selectivity of Pt/zeolite catalysts for reverse water gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 95-105.	20.2	122
79	Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 6601-6608.	3.7	119
80	Effect of Na Promoter on Fe-Based Catalyst for CO ₂ Hydrogenation to Alkenes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 925-932.	6.7	117
81	Controlling CO ₂ Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19983-19989.	13.8	114
82	Tuning reactivity of Fischer-Tropsch synthesis by regulating TiO _x overlayer over Ru/TiO ₂ nanocatalysts. <i>Nature Communications</i> , 2020, 11, 3185.	12.8	114
83	Integrated Conversion of Cellulose to High-Density Aviation Fuel. <i>Joule</i> , 2019, 3, 1028-1036.	24.0	113
84	Little do more: a highly effective Pt ₁ /FeO _x single-atom catalyst for the reduction of NO by H ₂ . <i>Chemical Communications</i> , 2015, 51, 7911-7914.	4.1	107
85	Catalytic performance of the Pt/TiO ₂ catalysts in reverse water gas shift reaction: Controlled product selectivity and a mechanism study. <i>Catalysis Today</i> , 2017, 281, 312-318.	4.4	106
86	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
87	Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9566-9572.	3.7	103
88	High-Density and Thermally Stable Palladium Single-Atom Catalysts for Chemoselective Hydrogenations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21613-21619.	13.8	103
89	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.	13.8	102
90	Promoting role of potassium in the reverse water gas shift reaction on Pt/mullite catalyst. <i>Catalysis Today</i> , 2017, 281, 319-326.	4.4	98

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91	Synthesis of diesel and jet fuel range alkanes with furfural and ketones from lignocellulose under solvent free conditions. <i>Green Chemistry</i> , 2014, 16, 4879-4884.	9.0	97
92	Recent progress in CO oxidation over Pt-group-metal catalysts at low temperatures. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1805-1813.	14.0	97
93	Nickel-Promoted Tungsten Carbide Catalysts for Cellulose Conversion: Effect of Preparation Methods. <i>ChemSusChem</i> , 2012, 5, 939-944.	6.8	96
94	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.	11.2	96
95	Remarkable active-site dependent H ₂ O promoting effect in CO oxidation. <i>Nature Communications</i> , 2019, 10, 3824.	12.8	96
96	Mn decorated Na/Fe catalysts for CO ₂ hydrogenation to light olefins. <i>Catalysis Science and Technology</i> , 2019, 9, 456-464.	4.1	96
97	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.	14.0	93
98	Versatile Nickel-Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. <i>ACS Catalysis</i> , 2015, 5, 874-883.	11.2	92
99	Hydrodeoxygenation of furans over Pd-FeO _x /SiO ₂ catalyst under atmospheric pressure. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 266-277.	20.2	91
100	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
101	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol: Manipulating the Frustrated Lewis Pairs by Introducing Gold to Pt/WO ₃ . <i>ChemSusChem</i> , 2017, 10, 819-824.	6.8	89
102	Single atom gold catalysts for low-temperature CO oxidation. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1580-1586.	14.0	85
103	Synthesis of Diesel and Jet Fuel Range Alkanes with Furfural and Angelica Lactone. <i>ACS Catalysis</i> , 2017, 7, 5880-5886.	11.2	85
104	Selectivity-Switchable Conversion of Cellulose to Glycols over Ni-Sn Catalysts. <i>ACS Catalysis</i> , 2016, 6, 191-201.	11.2	83
105	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 518-532.	20.2	83
106	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
107	Bioinspired copper single-atom nanozyme as a superoxide dismutase-like antioxidant for sepsis treatment. <i>Exploration</i> , 2022, 2, .	11.0	81
108	Theoretical investigations of non-noble metal single-atom catalysis: Ni ₁ /FeO _x for CO oxidation. <i>Catalysis Science and Technology</i> , 2016, 6, 6886-6892.	4.1	79

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109	Making JPâ€10 Superfuel Affordable with a Lignocellulosic Platform Compound. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12154-12158.	13.8	78
110	Crystal phase effects on the structure and performance of ruthenium nanoparticles for CO ₂ hydrogenation. <i>Catalysis Science and Technology</i> , 2014, 4, 2058-2063.	4.1	77
111	Hydrogenolysis of methyl glycolate to ethanol over a Ptâ€Cu/SiO ₂ single-atom alloy catalyst: a further step from cellulose to ethanol. <i>Green Chemistry</i> , 2018, 20, 2142-2150.	9.0	77
112	Selective aldol condensation of biomass-derived levulinic acid and furfural in aqueous-phase over MgO and ZnO. <i>Green Chemistry</i> , 2016, 18, 3430-3438.	9.0	76
113	Selective Production of 1,2â€Propylene Glycol from Jerusalem Artichoke Tuber using Niâ€W ₂ C/AC Catalysts. <i>ChemSusChem</i> , 2012, 5, 932-938.	6.8	74
114	Kinetic study of retroâ€aldol condensation of glucose to glycolaldehyde with ammonium metatungstate as the catalyst. <i>AIChE Journal</i> , 2014, 60, 3804-3813.	3.6	74
115	Enhanced performance of Rh ₁ /TiO ₂ catalyst without methanation in waterâ€gas shift reaction. <i>AIChE Journal</i> , 2017, 63, 2081-2088.	3.6	74
116	Mild Redox-Neutral Depolymerization of Lignin with a Binuclear Rh Complex in Water. <i>ACS Catalysis</i> , 2019, 9, 4441-4447.	11.2	74
117	Styrene Hydroformylation with In Situ Hydrogen: Regioselectivity Control by Coupling with the Lowâ€Temperature Waterâ€Gas Shift Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7430-7434.	13.8	74
118	One-Pot Production of Cellulosic Ethanol via Tandem Catalysis over a Multifunctional Mo/Pt/WO _x Catalyst. <i>Joule</i> , 2019, 3, 1937-1948.	24.0	73
119	One-pot catalytic conversion of cellulose to ethylene glycol and other chemicals: From fundamental discovery to potential commercialization. <i>Chinese Journal of Catalysis</i> , 2014, 35, 602-613.	14.0	72
120	Catalytic cascade conversion of furfural to 1,4-pentanediol in a single reactor. <i>Green Chemistry</i> , 2018, 20, 1770-1776.	9.0	71
121	FeO _x supported singleâ€atom Pd bifunctional catalyst for water gas shift reaction. <i>AIChE Journal</i> , 2017, 63, 4022-4031.	3.6	70
122	Catalytic Conversion of Cellulose to Ethylene Glycol over Tungsten Phosphide Catalysts. <i>Chinese Journal of Catalysis</i> , 2010, 31, 928-932.	14.0	69
123	Single-atom Pt promoted Mo ₂ C for electrochemical hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2021, 57, 371-377.	12.9	69
124	Zeolite-Encapsulated Cu Nanoparticles for the Selective Hydrogenation of Furfural to Furfuryl Alcohol. <i>ACS Catalysis</i> , 2021, 11, 10246-10256.	11.2	69
125	Effective Hydrogenolysis of Glycerol to 1,3â€Propanediol over Metalâ€Acid Concerted Pt/WO _x /Al ₂ O ₃ Catalysts. <i>ChemCatChem</i> , 2019, 11, 3903-3912.	3.7	66
126	Sustainable Production of Benzylamines from Lignin. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20666-20671.	13.8	66

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127	High-Efficiency Water Gas Shift Reaction Catalysis on $\hat{\pm}$ -MoC Promoted by Single-Atom Ir Species. ACS Catalysis, 2021, 11, 5942-5950.	11.2	65
128	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. Angewandte Chemie, 2018, 130, 7189-7193.	2.0	64
129	Unravelling the enigma of lignin ^{OX} : can the oxidation of lignin be controlled?. Chemical Science, 2018, 9, 702-711.	7.4	64
130	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl ₂ O ₄ Catalyst for Methane Combustion. Angewandte Chemie - International Edition, 2020, 59, 18522-18526.	13.8	64
131	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. ACS Catalysis, 2020, 10, 13624-13629.	11.2	63
132	Effect of group IB metals on the dehydrogenation of propane to propylene over anti-sintering Pt/MgAl ₂ O ₄ . Journal of Catalysis, 2018, 366, 115-126.	6.2	62
133	Unlock the Compact Structure of Lignocellulosic Biomass by Mild Ball Milling for Ethylene Glycol Production. ACS Sustainable Chemistry and Engineering, 2019, 7, 679-687.	6.7	62
134	A highly active Rh ₁ /CeO ₂ single-atom catalyst for low-temperature CO oxidation. Chemical Communications, 2020, 56, 4870-4873.	4.1	62
135	Synthesis of gasoline and jet fuel range cycloalkanes and aromatics from poly(ethylene terephthalate) waste. Green Chemistry, 2019, 21, 2709-2719.	9.0	61
136	Photo-thermo semi-hydrogenation of acetylene on Pd ₁ /TiO ₂ single-atom catalyst. Nature Communications, 2022, 13, 2648.	12.8	61
137	Synthesis of Renewable High-Density Fuel with Cyclopentanone Derived from Hemicellulose. ACS Sustainable Chemistry and Engineering, 2017, 5, 1812-1817.	6.7	60
138	Mesoporous WO ₃ Supported Pt Catalyst for Hydrogenolysis of Glycerol to 1,3-Propanediol. Chinese Journal of Catalysis, 2012, 33, 1257-1261.	14.0	58
139	Direct Catalytic Hydrogenolysis of Kraft Lignin to Phenols in Choline-Derived Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2016, 4, 3850-3856.	6.7	54
140	Identification of Active Sites on High-Performance Pt/Al ₂ O ₃ Catalyst for Cryogenic CO Oxidation. ACS Catalysis, 2020, 10, 8815-8824.	11.2	54
141	Catalytic conversion of concentrated miscanthus in water for ethylene glycol production. AIChE Journal, 2014, 60, 2254-2262.	3.6	53
142	Oxygen surface groups of activated carbon steer the chemoselective hydrogenation of substituted nitroarenes over nickel nanoparticles. Chemical Communications, 2017, 53, 1969-1972.	4.1	53
143	Taking on all of the biomass for conversion. Science, 2020, 367, 1305-1306.	12.6	53
144	Tungsten-Based Bimetallic Catalysts for Selective Cleavage of Lignin C=O Bonds. ChemCatChem, 2018, 10, 415-421.	3.7	52

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145	Transition-metal-free synthesis of pyrimidines from lignin Î²-O-4 segments via a one-pot multi-component reaction. <i>Nature Communications</i> , 2022, 13, .	12.8	52
146	Rhodium-terpyridine catalyzed redox-neutral depolymerization of lignin in water. <i>Green Chemistry</i> , 2020, 22, 33-38.	9.0	51
147	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2021, 11, 7292-7301.	11.2	51
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