Yong Wang

List of Publications by Year
in descending order

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191 papers	15,963 citations	23500 58 h-index	17546 121 g-index
198 all docs	198 docs citations	198 times ranked	14128 citing authors

#	Article	IF	Citations
1	Palladium/Ferrierite versus Palladium/SSZâ€13 Passive NOx Adsorbers: Adsorbateâ€Controlled Location of Atomically Dispersed Palladium(II) in Ferrierite Determines High Activity and Stability**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	24
2	Vapor-phase self-assembly for generating thermally stable single-atom catalysts. CheM, 2022, 8, 731-748.	5.8	23
3	Oxidation of Methane to Methanol by Water Over Cu/SSZâ€13: Impact of Cu Loading and Formation of Active Sites. ChemCatChem, 2022, 14, .	1.8	17
4	Elucidating the Role of CO in the NO Storage Mechanism on Pd/SSZ-13 with in Situ DRIFTS. Journal of Physical Chemistry C, 2022, 126, 1439-1449.	1.5	22
5	Noble Metal Singleâ€Atom Catalysts for the Catalytic Oxidation of Volatile Organic Compounds. ChemSusChem, 2022, 15, .	3.6	13
6	ZnAl₂O₄ Spinel-Supported PdZn_{Î²} Catalyst with Parts per Million Pd for Methanol Steam Reforming. ACS Catalysis, 2022, 12, 2714-2721.	5.5	20
7	Effects of high-temperature CeO₂ calcination on the activity of Pt/CeO₂ catalysts for oxidation of unburned hydrocarbon fuels. Catalysis Science and Technology, 2022, 12, 2462-2470.	2.1	5
8	Noble Metal Singleâ€Atom Catalysts for the Catalytic Oxidation of Volatile Organic Compounds. ChemSusChem, 2022, 15, e202200356.	3.6	4
9	Hydrogen spillover assisted by oxygenate molecules over nonreducible oxides. Nature Communications, 2022, 13, 1457.	5.8	37
10	Shapeâ€Dependent Performance of Cu/Cu₂O for Photocatalytic Reduction of CO₂. ChemSusChem, 2022, 15, .	3.6	22
11	Coordination environment of active sites and their effect on catalytic performance of heterogeneous catalysts. Chinese Journal of Catalysis, 2022, 43, 928-955.	6.9	23
12	Deactivation by Potassium Accumulation on a Pt/TiO₂ Bifunctional Catalyst for Biomass Catalytic Fast Pyrolysis. ACS Catalysis, 2022, 12, 465-480.	5.5	15
13	Acetone to isobutene conversion on ZnxTiyOz: Effects of TiO2 facet. Journal of Catalysis, 2022, 410, 236-245.	3.1	2
14	Surface Oxygen Vacancies Confined by Ferroelectric Polarization for Tunable CO Oxidation Kinetics. Advanced Materials, 2022, 34, e2202072.	11.1	13
15	Rate Controlling in Low-Temperature Standard NH₃-SCR: Implications from Operando EPR Spectroscopy and Reaction Kinetics. Journal of the American Chemical Society, 2022, 144, 9734-9746.	6.6	17
16	Selective catalytic reduction of NOx with NH3 over Ce-Mn oxide and Cu-SSZ-13 composite catalysts â€“ Low temperature enhancement. Applied Catalysis B: Environmental, 2022, 316, 121522.	10.8	32
17	Designing Ceria/Alumina for Efficient Trapping of Platinum Single Atoms. ACS Sustainable Chemistry and Engineering, 2022, 10, 7603-7612.	3.2	9
18	Distinct Role of Surface Hydroxyls in Single-Atom Pt₁/CeO₂ Catalyst for Room-Temperature Formaldehyde Oxidation: Acidâ€“Base Versus Redox. Jacs Au, 2022, 2, 1651-1660.	3.6	25

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19	Enhanced Selective Hydrogenolysis of Phenolic Câ€“O Bonds over Graphene-Covered Feâ€“Co Alloy Catalysts. ACS Sustainable Chemistry and Engineering, 2022, 10, 8588-8596.	3.2	2
20	Reversible transformation between terrace and step sites of Pt nanoparticles on titanium under CO and O2 environments. Chinese Journal of Catalysis, 2022, 43, 2026-2033.	6.9	2
21	Hexagonal boron nitride for selective oxidative dehydrogenation of n-hexane to olefins. Applied Catalysis A: General, 2022, 643, 118763.	2.2	2
22	Remarkable self-degradation of Cu/SAPO-34 selective catalytic reduction catalysts during storage at ambient conditions. Catalysis Today, 2021, 360, 367-374.	2.2	18
23	Conversion of syngas to methanol and DME on highly selective Pd/ZnAl2O4 catalyst. Journal of Energy Chemistry, 2021, 58, 564-572.	7.1	31
24	Selective hydrogenolysis of aryl ether bond over Ru-Fe bimetallic catalyst. Catalysis Today, 2021, 365, 199-205.	2.2	14
25	The superior hydrothermal stability of Pd/SSZ-39 in low temperature passive NOx adsorption (PNA) and methane combustion. Applied Catalysis B: Environmental, 2021, 280, 119449.	10.8	56
26	Atomically Dispersed Dopants for Stabilizing Ceria Surface Area. Applied Catalysis B: Environmental, 2021, 284, 119722.	10.8	37
27	Understanding the Deactivation of Agâ€“ZrO₂/SiO₂ Catalysts for the Singleâ€step Conversion of Ethanol to Butenes. ChemCatChem, 2021, 13, 999-1008.	1.8	11
28	Elucidation of Active Sites in Aldol Condensation of Acetone over Single-Facet Dominant Anatase TiO₂ (101) and (001) Catalysts. Jacs Au, 2021, 1, 41-52.	3.6	26
29	Economizing on Precious Metals in Threeâ€Way Catalysts: Thermally Stable and Highly Active Singleâ€Atom Rhodium on Ceria for NO Abatement under Dry and Industrially Relevant Conditions**. Angewandte Chemie - International Edition, 2021, 60, 391-398.	7.2	51
30	Economizing on Precious Metals in Threeâ€Way Catalysts: Thermally Stable and Highly Active Singleâ€Atom Rhodium on Ceria for NO Abatement under Dry and Industrially Relevant Conditions**. Angewandte Chemie, 2021, 133, 395-402.	1.6	10
31	High-Field One-Dimensional and Two-Dimensional ²⁷Al Magic-Angle Spinning Nuclear Magnetic Resonance Study of Î·-, Î˝-, and Î³-Al₂O₃ Dominated Aluminum Oxides: Toward Understanding the Al Sites in Î³-Al₂O₃. ACS Omega, 2021, 6, 4090-4099.	1.6	29
32	Controlled Synthesis of Cu⁰/Cu₂O for Efficient Photothermal Catalytic Conversion of CO₂ and H₂O. ACS Sustainable Chemistry and Engineering, 2021, 9, 1754-1761.	3.2	53
33	Probing Acidâ€“Base Properties of Anatase TiO₂ Nanoparticles with Dominant {001} and {101} Facets Using Methanol Chemisorption and Surface Reactions. Journal of Physical Chemistry C, 2021, 125, 3988-4000.	1.5	23
34	Onset of High Methane Combustion Rates over Supported Palladium Catalysts: From Isolated Pd Cations to PdO Nanoparticles. Jacs Au, 2021, 1, 396-408.	3.6	37
35	Conversion of ethanol to 1,3â€“butadiene over Agâ€“ZrO2/SiO2 catalysts: The role of surface interfaces. Journal of Energy Chemistry, 2021, 54, 7-15.	7.1	21
36	Thermally Stable Singleâ€Atom Heterogeneous Catalysts. Advanced Materials, 2021, 33, e2004319.	11.1	127

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37	Elucidation of Active Sites for CH₄ Catalytic Oxidation over Pd/CeO₂ Via Tailoring Metalâ€“Support Interactions. ACS Catalysis, 2021, 11, 5666-5677.	5.5	103
38	Conversion of Formic Acid on Single- and Nano-Crystalline Anatase TiO₂(101). Journal of Physical Chemistry C, 2021, 125, 7686-7700.	1.5	10
39	Guiding the design of oxidation-resistant Fe-based single atom alloy catalysts with insights from configurational space. Journal of Chemical Physics, 2021, 154, 174709.	1.2	3
40	Critical Role of Al Pair Sites in Methane Oxidation to Methanol on Cu-Exchanged Mordenite Zeolites. Catalysts, 2021, 11, 751.	1.6	4
41	Impact of Hydration on Supported V2O5/TiO2 Catalysts as Explored by Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 16766-16775.	1.5	3
42	Understanding the origin of selective oxidative dehydrogenation of propane on boron-based catalysts. Applied Catalysis A: General, 2021, 623, 118271.	2.2	15
43	The Effect of Pretreatment on the Reactivity of Pd/Al₂O₃ in Room Temperature Formaldehyde Oxidation. ChemCatChem, 2021, 13, 4133-4141.	1.8	11
44	Recent advances in hybrid metal oxideâ€“zeolite catalysts for low-temperature selective catalytic reduction of NOx by ammonia. Applied Catalysis B: Environmental, 2021, 291, 120054.	10.8	78
45	Elucidating the Cooperative Roles of Water and Lewis Acidâ€“Base Pairs in Cascade Câ€“C Coupling and Self-Deoxygenation Reactions. Jacs Au, 2021, 1, 1471-1487.	3.6	5
46	Unveiling the Interfacial and Structural Heterogeneity of Ti₃C₂T_x MXene Etched with CoF₂/HCl by Integrated in Situ Thermal Analysis. ACS Applied Materials & Interfaces, 2021, 13, 52125-52133.	4.0	10
47	Elucidating the Active Site and the Role of Alkali Metals in Selective Hydrodeoxygenation of Phenols over Ironâ€Carbideâ€based Catalyst. ChemSusChem, 2021, 14, 4546-4555.	3.6	8
48	Tailoring the Local Environment of Platinum in Singleâ€Atom Pt₁/CeO₂ Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie, 2021, 133, 26258-26266.	1.6	7
49	Facet-Dependent selectivity of CeO2 nanoparticles in 2-Propanol conversion. Journal of Catalysis, 2021, 404, 96-108.	3.1	20
50	Toward efficient single-atom catalysts for renewable fuels and chemicals production from biomass and CO2. Applied Catalysis B: Environmental, 2021, 292, 120162.	10.8	114
51	Formation Energetics and Guestâ€”Host Interactions of Molybdenum Carbide Confined in Zeolite Y. Industrial & Engineering Chemistry Research, 2021, 60, 13991-14003.	1.8	3
52	Tailoring the Local Environment of Platinum in Singleâ€Atom Pt₁/CeO₂ Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie - International Edition, 2021, 60, 26054-26062.	7.2	84
53	Engineering catalyst supports to stabilize PdOx two-dimensional rafts for water-tolerant methane oxidation. Nature Catalysis, 2021, 4, 830-839.	16.1	86
54	Biomimetic CO oxidation below â˜’100â€‰Â°C by a nitrate-containing metal-free microporous system. Nature Communications, 2021, 12, 6033.	5.8	8

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55	Frontispiece: Tailoring the Local Environment of Platinum in Singleâ€Atom Pt₁/CeO₂ Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie - International Edition, 2021, 60, .	7.2	1
56	Frontispiz: Tailoring the Local Environment of Platinum in Singleâ€Atom Pt₁/CeO₂ Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie, 2021, 133, .	1.6	0
57	Liquid-phase hydrodeoxygenation of lignin-derived phenolics on Pd/Fe: A mechanistic study. Catalysis Today, 2020, 339, 305-311.	2.2	29
58	Influences of Na+ co-cation on the structure and performance of Cu/SSZ-13 selective catalytic reduction catalysts. Catalysis Today, 2020, 339, 233-240.	2.2	40
59	Palladium/Zeolite Low Temperature Passive NOx Adsorbers (PNA): Structure-Adsorption Property Relationships for Hydrothermally Aged PNA Materials. Emission Control Science and Technology, 2020, 6, 126-138.	0.8	38
60	Enhancement of high-temperature selectivity on Cu-SSZ-13 towards NH3-SCR reaction from highly dispersed ZrO2. Applied Catalysis B: Environmental, 2020, 263, 118359.	10.8	42
61	Stabilization of Super Electrophilic Pd⁺² Cations in Small-Pore SSZ-13 Zeolite. Journal of Physical Chemistry C, 2020, 124, 309-321.	1.5	67
62	Coverage-Dependent Adsorption of Phenol on Pt(111) from First Principles. Journal of Physical Chemistry C, 2020, 124, 356-362.	1.5	12
63	Identifying Trends in the Field Ionization of Diatomic Molecules over Adsorbate Covered Pd(331) Surfaces. Topics in Catalysis, 2020, 63, 1510-1521.	1.3	0
64	Single-Step Conversion of Ethanol to n-Butene over Ag-ZrO₂/SiO₂ Catalysts. ACS Catalysis, 2020, 10, 10602-10613.	5.5	34
65	Low-Temperature Methane Oxidation for Efficient Emission Control in Natural Gas Vehicles: Pd and Beyond. ACS Catalysis, 2020, 10, 14304-14314.	5.5	93
66	Recent Progresses on Structural Reconstruction of Nanosized Metal Catalysts via Controlled-Atmosphere Transmission Electron Microscopy: A Review. ACS Catalysis, 2020, 10, 14419-14450.	5.5	71
67	Direct conversion of methane to formaldehyde and CO on B2O3 catalysts. Nature Communications, 2020, 11, 5693.	5.8	59
68	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. ACS Catalysis, 2020, 10, 13624-13629.	5.5	63
69	Singleâ€atom Automobile Exhaust Catalysts. ChemNanoMat, 2020, 6, 1659-1682.	1.5	27
70	Reply to: â€œPitfalls in identifying active catalyst speciesâ€• Nature Communications, 2020, 11, 4574.	5.8	0
71	Elucidation of the Active Sites in Single-Atom Pd₁/CeO₂ Catalysts for Low-Temperature CO Oxidation. ACS Catalysis, 2020, 10, 11356-11364.	5.5	123
72	Quantitative Cu Counting Methodologies for Cu/SSZ-13 Selective Catalytic Reduction Catalysts by Electron Paramagnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 28061-28073.	1.5	20

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73	Controlling the Oxidation State of Fe-Based Catalysts through Nitrogen Doping toward the Hydrodeoxygenation of m-Cresol. ACS Catalysis, 2020, 10, 7884-7893.	5.5	32
74	Surface engineering of earth-abundant Fe catalysts for selective hydrodeoxygenation of phenolics in liquid phase. Chemical Science, 2020, 11, 5874-5880.	3.7	19
75	CdS/ZnO: A Multipronged Approach for Efficient Reduction of Carbon Dioxide under Visible Light Irradiation. ACS Sustainable Chemistry and Engineering, 2020, 8, 5270-5277.	3.2	70
76	Cu-Exchanged CHA-Type Zeolite from Organic Template-Free Synthesis: An Effective Catalyst for NH₃-SCR. Industrial & Engineering Chemistry Research, 2020, 59, 7375-7382.	1.8	22
77	Synergetic effect of Lewis acid and base in modified Sn-Î² on the direct conversion of levoglucosan to lactic acid. Catalysis Science and Technology, 2020, 10, 2986-2993.	2.1	19
78	Probing Active-Site Relocation in Cu/SSZ-13 SCR Catalysts during Hydrothermal Aging by In Situ EPR Spectroscopy, Kinetics Studies, and DFT Calculations. ACS Catalysis, 2020, 10, 9410-9419.	5.5	64
79	Coverage-Dependent Adsorption of Hydrogen on Fe(100): Determining Catalytically Relevant Surface Structures via Lattice Gas Models. Journal of Physical Chemistry C, 2020, 124, 7254-7266.	1.5	15
80	Single-Facet Dominant Anatase TiO₂ (101) and (001) Model Catalysts to Elucidate the Active Sites for Alkanol Dehydration. ACS Catalysis, 2020, 10, 4268-4279.	5.5	32
81	Variable Temperature and Pressure Operando MAS NMR for Catalysis Science and Related Materials. Accounts of Chemical Research, 2020, 53, 611-619.	7.6	48
82	Visualizing H ₂ O molecules reacting at TiO ₂ active sites with transmission electron microscopy. Science, 2020, 367, 428-430.	6.0	149
83	Recent advances in the selective catalytic hydrodeoxygenation of lignin-derived oxygenates to arenes. Green Chemistry, 2020, 22, 1072-1098.	4.6	130
84	Thermal perturbation of NMR properties in small polar and non-polar molecules. Scientific Reports, 2020, 10, 6097.	1.6	9
85	High-Temperature and High-Pressure In situ Magic Angle Spinning Nuclear Magnetic Resonance Spectroscopy. Journal of Visualized Experiments, 2020, , .	0.2	5
86	An Environmental Transmission Electron Microscopy Study of the Stability of the TiO₂ (1) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	11
87	Mechanism by which Tungsten Oxide Promotes the Activity of Supported V₂O₅/TiO₂ Catalysts for NO_X Abatement: Structural Effects Revealed by ⁵¹V MAS NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 12609-12616.	7.2	96
88	Mechanism by which Tungsten Oxide Promotes the Activity of Supported V₂O₅/TiO₂ Catalysts for NO_X Abatement: Structural Effects Revealed by ⁵¹V MAS NMR Spectroscopy. Angewandte Chemie, 2019, 131, 12739-12746.	1.6	45
89	Inhibition of AlF₃Â·3H₂O Impurity Formation in Ti₃C₂T_x MXene Synthesis under a Unique CoF_x/HCl Etching Environment. ACS Applied Energy Materials, 2019, 2, 8145-8152.	2.5	39
90	Oxidative esterification of acetol with methanol to methyl pyruvate over hydroxyapatite supported gold catalyst: Essential roles of acid-base properties. Chinese Journal of Catalysis, 2019, 40, 1810-1819.	6.9	10

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91	Adsorption and Reaction of Methanol on Anatase TiO₂(101) Single Crystals and Faceted Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 24133-24145.	1.5	14
92	Revisiting effects of alkali metal and alkaline earth co-cation additives to Cu/SSZ-13 selective catalytic reduction catalysts. Journal of Catalysis, 2019, 378, 363-375.	3.1	59
93	Controllable in Situ Surface Restructuring of Cu Catalysts and Remarkable Enhancement of Their Catalytic Activity. ACS Catalysis, 2019, 9, 2213-2221.	5.5	53
94	Genesis and Stability of Hydronium Ions in Zeolite Channels. Journal of the American Chemical Society, 2019, 141, 3444-3455.	6.6	119
95	Benchmarking the accuracy of coverage-dependent models: adsorption and desorption of benzene on Pt (1â€¯1â€¯1) and Pt3Sn (1â€¯1â€¯1) from first principles. Progress in Surface Science, 2019, 94, 100538.	3.8	10
96	Tuning Ni/Al Ratio to Enhance Pseudocapacitive Charge Storage Properties of Nickelâ€“Aluminum Layered Double Hydroxide. Advanced Electronic Materials, 2019, 5, 1900215.	2.6	39
97	Carbon vacancy defect-activated Pt cluster for hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 15364-15370.	5.2	57
98	Nitrogenâ€Doped Porous Carbon Supported Nonprecious Metal Singleâ€Atom Electrocatalysts: from Synthesis to Application. Small Methods, 2019, 3, 1900159.	4.6	218
99	Tuning Pt-CeO2 interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. Nature Communications, 2019, 10, 1358.	5.8	302
100	Unraveling the mysterious failure of Cu/SAPO-34 selective catalytic reduction catalysts. Nature Communications, 2019, 10, 1137.	5.8	99
101	Propane oxidative dehydrogenation over highly selective hexagonal boron nitride catalysts: The role of oxidative coupling of methyl. Science Advances, 2019, 5, eaav8063.	4.7	80
102	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. ACS Catalysis, 2019, 9, 3978-3990.	5.5	233
103	The partial reduction of clean and doped Î±-Fe2O3(0001) from first principles. Applied Catalysis A: General, 2019, 582, 116989.	2.2	6
104	Catalytic activation of ethylene Câ€“H bonds on uniform d⁸ Ir(<scp>i</scp>) and Ni(<scp>ii</scp>) cations in zeolites: toward molecular level understanding of ethylene polymerization on heterogeneous catalysts. Catalysis Science and Technology, 2019, 9, 6570-6576.	2.1	20
105	Hydrothermally stable ZnAl₂O₄ nanocrystals with controlled surface structures for the design of long-lasting and highly active/selective PdZn catalysts. Green Chemistry, 2019, 21, 6574-6578.	4.6	7
106	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. Chemical Reviews, 2019, 119, 1806-1854.	23.0	745
107	Palladium/Beta zeolite passive NOx adsorbers (PNA): Clarification of PNA chemistry and the effects of CO and zeolite crystallite size on PNA performance. Applied Catalysis A: General, 2019, 569, 141-148.	2.2	81
108	Mechanistic insight into the passive NOx adsorption in the highly dispersed Pd/HBEA zeolite. Applied Catalysis A: General, 2019, 569, 181-189.	2.2	55

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109	Steam reforming of simulated bio-oil on K-Ni-Cu-Mg-Ce-O/Al2O3: The effect of K. Catalysis Today, 2019, 323, 183-190.	2.2	19
110	Hydrothermal Catalytic Deoxygenation of Fatty Acid and Bio-oil with In Situ H₂. ACS Sustainable Chemistry and Engineering, 2018, 6, 4521-4530.	3.2	40
111	Modeling the adsorbate coverage distribution over a multi-faceted catalytic grain in the presence of an electric field: O/Fe from first principles. Catalysis Today, 2018, 312, 92-104.	2.2	4
112	Identifying the Thermal Decomposition Mechanism of Guaiacol on Pt(111): An Integrated X-ray Photoelectron Spectroscopy and Density Functional Theory Study. Journal of Physical Chemistry C, 2018, 122, 4261-4273.	1.5	5
113	Mechanistic Effects of Water on the Fe-Catalyzed Hydrodeoxygenation of Phenol. The Role of BrÃ¸nsted Acid Sites. ACS Catalysis, 2018, 8, 2200-2208.	5.5	50
114	Molecular Level Understanding of How Oxygen and Carbon Monoxide Improve NO_x Storage in Palladium/SSZ-13 Passive NO_x Adsorbers: The Role of NO⁺ and Pd(II)(CO)(NO) Species. Journal of Physical Chemistry C, 2018, 122, 10820-10827.	1.5	101
115	Ethanol Partial Oxidation over VO_x/TiO₂ Catalysts: The Role of Titania Surface Oxygen on Vanadia Reoxidation in the Marsâ€“van Krevelen Mechanism. ACS Catalysis, 2018, 8, 4681-4693.	5.5	33
116	Achieving Atomic Dispersion of Highly Loaded Transition Metals in Smallâ€Pore Zeolite SSZâ€13: Highâ€Capacity and Highâ€Efficiency Lowâ€Temperature CO and Passive NO_x Adsorbers. Angewandte Chemie - International Edition, 2018, 57, 16672-16677.	7.2	129
117	Achieving Atomic Dispersion of Highly Loaded Transition Metals in Smallâ€Pore Zeolite SSZâ€13: Highâ€Capacity and Highâ€Efficiency Lowâ€Temperature CO and Passive NO_x Adsorbers. Angewandte Chemie, 2018, 130, 16914-16919.	1.6	34
118	Enhanced Antioxidation Stability of Iron-Based Catalysts via Surface Decoration with ppm Platinum. ACS Sustainable Chemistry and Engineering, 2018, 6, 14010-14016.	3.2	13
119	Atom trapping: a novel approach to generate thermally stable and regenerable single-atom catalysts. National Science Review, 2018, 5, 630-632.	4.6	47
120	Correlating DFT Calculations with CO Oxidation Reactivity on Ga-Doped Pt/CeO₂ Single-Atom Catalysts. Journal of Physical Chemistry C, 2018, 122, 22460-22468.	1.5	91
121	Role of Active Phase in Fischerâ€“Tropsch Synthesis: Experimental Evidence of CO Activation over Single-Phase Cobalt Catalysts. ACS Catalysis, 2018, 8, 7787-7798.	5.5	110
122	Propane ammoxidation over MoVTeNb oxide catalyst in a microchannel reactor. AICHE Journal, 2018, 64, 4002-4008.	1.8	11
123	Predicting the Electric Field Effect on the Lateral Interactions Between Adsorbates: O/Fe(100) from First Principles. Topics in Catalysis, 2018, 61, 763-775.	1.3	11
124	In Situ STEM Determination of the Atomic Structure and Reconstruction Mechanism of the TiO₂ (001) (1 Ã— 4) Surface. Chemistry of Materials, 2017, 29, 3189-3194.	3.2	40
125	Investigation of Silica-Supported Vanadium Oxide Catalysts by High-Field ⁵¹V Magic-Angle Spinning NMR. Journal of Physical Chemistry C, 2017, 121, 6246-6254.	1.5	39
126	Stabilization and transformation of Pt nanocrystals supported on ZnAl2O4spinel. RSC Advances, 2017, 7, 3282-3286.	1.7	7

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127	Fabrication and thermal stability of NH 4 HF 2 -etched Ti 3 C 2 MXene. Ceramics International, 2017, 43, 6322-6328.	2.3	208
128	Stabilization of Iron-Based Catalysts against Oxidation: An In Situ Ambient-Pressure X-ray Photoelectron Spectroscopy (AP-XPS) Study. ACS Catalysis, 2017, 7, 3639-3643.	5.5	36
129	Elucidation of reaction mechanism for m-cresol hydrodeoxygenation over Fe based catalysts: A kinetic study. Catalysis Communications, 2017, 100, 43-47.	1.6	17
130	Catalysts for Steam Reforming of Bio-oil: A Review. Industrial & Engineering Chemistry Research, 2017, 56, 4627-4637.	1.8	139
131	Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. Coordination Chemistry Reviews, 2017, 352, 306-327.	9.5	484
132	Direct Coupling of Thermoâ€•and Photocatalysis for Conversion of CO₂â€“H₂O into Fuels. ChemSusChem, 2017, 10, 4709-4714.	3.6	53
133	Toward Rational Design of Cu/SSZ-13 Selective Catalytic Reduction Catalysts: Implications from Atomic-Level Understanding of Hydrothermal Stability. ACS Catalysis, 2017, 7, 8214-8227.	5.5	278
134	A Strategy for the Simultaneous Synthesis of Methallyl Alcohol and Diethyl Acetal with Snâ€Î². ChemSusChem, 2017, 10, 4715-4724.	3.6	13
135	Low-Temperature Pd/Zeolite Passive NO_x Adsorbers: Structure, Performance, and Adsorption Chemistry. Journal of Physical Chemistry C, 2017, 121, 15793-15803.	1.5	178
136	One-Pot Production of Lactic Acid from Acetol over Dealuminated Sn-Beta Supported Gold Catalyst. ACS Catalysis, 2017, 7, 6038-6047.	5.5	31
137	A Strategy for the Simultaneous Synthesis of Methallyl Alcohol and Diethyl Acetal with Sn-Î². ChemSusChem, 2017, 10, 4667-4667.	3.6	0
138	Activation of surface lattice oxygen in single-atom Pt/CeO ₂ for low-temperature CO oxidation. Science, 2017, 358, 1419-1423.	6.0	1,114
139	Sub-micron Cu/SSZ-13: Synthesis and application as selective catalytic reduction (SCR) catalysts. Applied Catalysis B: Environmental, 2017, 201, 461-469.	10.8	101
140	Perspective on Catalytic Hydrodeoxygenation of Biomass Pyrolysis Oils: Essential Roles of Fe-Based Catalysts. Catalysis Letters, 2016, 146, 1621-1633.	1.4	42
141	Thermally stable single-atom platinum-on-ceria catalysts via atom trapping. Science, 2016, 353, 150-154.	6.0	1,487
142	The effect of ZnO addition on H2O activation over Co/ZrO2 catalysts. Catalysis Today, 2016, 269, 140-147.	2.2	2
143	Investigating the Surface Structure of Î³-Al₂O₃ Supported WO_X Catalysts by High Field ²⁷Al MAS NMR and Electronic Structure Calculations. Journal of Physical Chemistry C, 2016, 120, 23093-23103.	1.5	26
144	Nitrogen-doped flower-like porous carbon materials directed by in situ hydrolysed MgO: Promising support for Ru nanoparticles in catalytic hydrogenations. Nano Research, 2016, 9, 3129-3140.	5.8	24

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145	Real-Time Observation of Reconstruction Dynamics on TiO₂(001) Surface under Oxygen via an Environmental Transmission Electron Microscope. Nano Letters, 2016, 16, 132-137.	4.5	109
146	Adsorption of guaiacol on Fe (110) and Pd (111) from first principles. Surface Science, 2016, 648, 227-235.	0.8	36
147	High field 27Al MAS NMR and TPD studies of active sites in ethanol dehydration using thermally treated transitional aluminas as catalysts. Journal of Catalysis, 2016, 336, 85-93.	3.1	47
148	Hydrothermal catalytic deoxygenation of palmitic acid over nickel catalyst. Fuel, 2016, 166, 302-308.	3.4	110
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