Wei-Xin Huang

List of Publications by Year
in descending order

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270	15,802	10986 71	22166 113
papers	citations	h-index	g-index

280	280	280	15045
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Morphology-engineered highly active and stable Pd/TiO2 catalysts for CO2 hydrogenation into formate. Journal of Catalysis, 2022, 405, 152-163.	6.2	33
2	<scp>Cu₂O</scp> Nanocrystal Model Catalysts. Chinese Journal of Chemistry, 2022, 40, 846-855.	4.9	18
3	Metalâ€“Support Interactions in Metal/Oxide Catalysts and Oxideâ€“Metal Interactions in Oxide/Metal Inverse Catalysts. ACS Catalysis, 2022, 12, 1268-1287.	11.2	156
4	Tuning activity and selectivity of CO2 hydrogenation via metal-oxide interfaces over ZnO-supported metal catalysts. Journal of Catalysis, 2022, 407, 126-140.	6.2	34
5	In Situ Generated Ti³⁺-Mediated Photocatalytic Methanol Decomposition to Carbon Monoxide and Hydrogen on a Rutile TiO₂(100) Surface. Journal of Physical Chemistry Letters, 2022, 13, 2614-2618.	4.6	1
6	Multiple Promotional Effects of Vanadium Oxide on Boron Nitride for Oxidative Dehydrogenation of Propane. Jacs Au, 2022, 2, 1096-1104.	7.9	20
7	Structural evolution and catalytic performance in CO2 hydrogenation reaction of ZnO-ZrO2 composite oxides. Applied Surface Science, 2022, 587, 152884.	6.1	16
8	A near-ambient pressure flow reactor coupled with polarization-modulation infrared reflection absorption spectroscopy for operando studies of heterogeneous catalytic reactions over model catalysts. Review of Scientific Instruments, 2022, 93, .	1.3	3
9	<scp>Morphologyâ€Dependent</scp> Catalysis of <scp>CeO₂â€Based</scp> Nanocrystal Model Catalysts. Chinese Journal of Chemistry, 2022, 40, 1856-1866.	4.9	18
10	Interfacial interaction-dependent in situ restructure of NiO/TiO2 photocatalysts. Applied Surface Science, 2022, 596, 153606.	6.1	9
11	Role of Water in Methanol Photochemistry on TiO₂ Nanocrystals: An In Situ DRIFTS Study. Journal of Physical Chemistry C, 2022, 126, 8615-8626.	3.1	4
12	Spontaneous Bulk-Surface Charge Separation of TiO₂-{001} Nanocrystals Leads to High Activity in Photocatalytic Methane Combustion. ACS Catalysis, 2022, 12, 6457-6463.	11.2	16
13	Co³⁺â€“O Bond Elongation Unlocks Co₃O₄ for Methane Activation under Ambient Conditions. ACS Catalysis, 2022, 12, 7037-7045.	11.2	9
14	Size-Dependent Redispersion or Agglomeration of Ag Clusters on CeO₂. Journal of Physical Chemistry C, 2022, 126, 11537-11543.	3.1	6
15	Complex surface engineering meets simple and beautiful surface chemistry. Science China Chemistry, 2021, 64, 167-168.	8.2	0
16	Engineering self-doped surface defects of anatase TiO2 nanosheets for enhanced photocatalytic efficiency. Applied Surface Science, 2021, 540, 148330.	6.1	34
17	Site Sensitivity of Interfacial Charge Transfer and Photocatalytic Efficiency in Photocatalysis: Methanol Oxidation on Anatase TiO 2 Nanocrystals. Angewandte Chemie, 2021, 133, 6225-6234.	2.0	7
18	Site Sensitivity of Interfacial Charge Transfer and Photocatalytic Efficiency in Photocatalysis: Methanol Oxidation on Anatase TiO₂ Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 6160-6169.	13.8	52

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19	Interaction of Hydrogen with Ceria: Hydroxylation, Reduction, and Hydride Formation on the Surface and in the Bulk. Chemistry - A European Journal, 2021, 27, 5268-5276.	3.3	44
20	Reactivity of hydrogen species on oxide surfaces. Science China Chemistry, 2021, 64, 1076-1087.	8.2	28
21	Crystal-plane effects of anatase TiO2 on the selective hydrogenation of crotonaldehyde over Ir/TiO2 catalysts. Journal of Catalysis, 2021, 395, 10-22.	6.2	29
22	Structure Sensitivity of Auâ€TiO₂ Strong Metalâ€“Support Interactions. Angewandte Chemie - International Edition, 2021, 60, 12074-12081.	13.8	161
23	Structure Sensitivity of Auâ€TiO 2 Strong Metalâ€“Support Interactions. Angewandte Chemie, 2021, 133, 12181-12188.	2.0	11
24	Ceria morphology-dependent Pd-CeO2 interaction and catalysis in CO2 hydrogenation into formate. Journal of Catalysis, 2021, 397, 116-127.	6.2	63
25	Highly Selective Acetylene Semihydrogenation Catalyst with an Operation Window Exceeding 150 Â°C. ACS Catalysis, 2021, 11, 6073-6080.	11.2	33
26	The active sites of Cuâ€“ZnO catalysts for water gas shift and CO hydrogenation reactions. Nature Communications, 2021, 12, 4331.	12.8	83
27	Synergistic Catalysis of Al and Zn Sites of Spinel ZnAl₂O₄ Catalyst for CO Hydrogenation to Methanol and Dimethyl Ether. ACS Catalysis, 2021, 11, 10014-10019.	11.2	28
28	Oxidative Coupling of Methanol with Molecularly Adsorbed Oxygen on Au Surface to Methyl Formate. Journal of Physical Chemistry Letters, 2021, 12, 6941-6945.	4.6	3
29	7Li NMR investigations of Li/MgO catalysts for oxidative coupling of methane. Molecular Catalysis, 2021, 513, 111802.	2.0	1
30	Hydride species on oxide catalysts. Journal of Physics Condensed Matter, 2021, 33, 433001.	1.8	11
31	Quantification of critical particle distance for mitigating catalyst sintering. Nature Communications, 2021, 12, 4865.	12.8	62
32	X-ray-Induced CO2 Formation via CO Reaction with TiO2 at Cryogenic Temperature. Journal of Physical Chemistry Letters, 2021, 12, 9741-9747.	4.6	1
33	The effects of TiO2 crystal-plane-dependent Ir-TiO interactions on the selective hydrogenation of crotonaldehyde over Ir/TiO2 catalysts. Chinese Journal of Catalysis, 2021, 42, 1742-1754.	14.0	7
34	TiO2 Facet-dependent reconstruction and photocatalysis of CuOx/TiO2 photocatalysts in CO2 photoreduction. Applied Surface Science, 2021, 564, 150407.	6.1	52
35	Grafting nanometer metal/oxide interface towards enhanced low-temperature acetylene semi-hydrogenation. Nature Communications, 2021, 12, 5770.	12.8	43
36	Coordinating ultra-low content Au modified CdS with coupling selective oxidation and reduction system for improved photoexcited charge utilization. Journal of Catalysis, 2021, 402, 72-82.	6.2	19

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37	Effect of the modification of alumina supports with chloride on the structure and catalytic performance of Ag/Al2O3 catalysts for the selective catalytic reduction of NO with propene and H2/propene. Chinese Journal of Catalysis, 2021, 42, 2242-2253.	14.0	12
38	Simultaneous oxidative and reductive reactions in one system by atomic design. Nature Catalysis, 2021, 4, 134-143.	34.4	132
39	Fine cubic Cu2O nanocrystals as highly selective catalyst for propylene epoxidation with molecular oxygen. Nature Communications, 2021, 12, 5921.	12.8	33
40	The Roles of Precursor-Induced Metalâ€“Support Interaction on the Selective Hydrogenation of Crotonaldehyde over Ir/TiO2 Catalysts. Catalysts, 2021, 11, 1216.	3.5	1
41	Near Ambient-Pressure X-ray Photoelectron Spectroscopy Study of CO Activation and Hydrogenation on Co(0001). Journal of Physical Chemistry C, 2021, 125, 22223-22230.	3.1	5
42	Morphology-dependent CeO2 catalysis in acetylene semihydrogenation reaction. Applied Surface Science, 2020, 501, 144120.	6.1	29
43	Photoionization Mass Spectrometry for Online Detection of Reactive and Unstable Gasâ€Phase Intermediates in Heterogeneous Catalytic Reactions. ChemCatChem, 2020, 12, 675-688.	3.7	14
44	Tuning the size of photo-deposited metal nanoparticles via manipulating surface defect structures of TiO₂ nanocrystals. Chemical Communications, 2020, 56, 1964-1967.	4.1	16
45	High-Temperature Synthesis of Small-Sized Pt/Nb Alloy Catalysts on Carbon Supports for Hydrothermal Reactions. Inorganic Chemistry, 2020, 59, 15953-15961.	4.0	7
46	Metal-Free Ceria Catalysis for Selective Hydrogenation of Crotonaldehyde. ACS Catalysis, 2020, 10, 14560-14566.	11.2	64
47	Zinc Oxide Morphologyâ€Dependent Pd/ZnO Catalysis in Baseâ€Free CO₂ Hydrogenation into Formic Acid. ChemCatChem, 2020, 12, 5540-5547.	3.7	24
48	A high-pressure reactor coupled to synchrotron radiation photoionization mass spectrometry. Review of Scientific Instruments, 2020, 91, 093102.	1.3	4
49	Morphology-Dependent CO Reduction Kinetics and Surface Copper Species Evolution of Cu₂O Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 21568-21576.	3.1	20
50	Frontispiece: Electronic Oxideâ€“Metal Strong Interaction (EOMSI). Chemistry - A European Journal, 2020, 26, .	3.3	0
51	Single-Site Catalysis of Li-MgO Catalysts for Oxidative Coupling of Methane Reaction. ACS Catalysis, 2020, 10, 15142-15148.	11.2	34
52	Role of Coadsorbates in Shaping the Reaction Pathways of Alkyl Fragments on Co Surfaces. Journal of Physical Chemistry C, 2020, 124, 24786-24794.	3.1	4
53	Single step combustion synthesis of novel Fe2TiO5/Î±-Fe2O3/TiO2 ternary photocatalyst with combined double type-II cascade charge migration processes and efficient photocatalytic activity. Applied Surface Science, 2020, 525, 146571.	6.1	29
54	Activation and surface reactions of CO and H2 on ZnO powders and nanoplates under CO hydrogenation reaction conditions. Journal of Energy Chemistry, 2020, 50, 351-357.	12.9	22

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55	Electronic Oxideâ€“Metal Strong Interaction (EOMSI). Chemistry - A European Journal, 2020, 26, 13538-13542.	3.3	9
56	Size-Dependent Structures and Catalytic Performances of Au/TiO₂-{001} Catalysts for Propene Epoxidation. Journal of Physical Chemistry C, 2020, 124, 15264-15274.	3.1	8
57	Titelbild: Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts (Angew. Chem. 21/2020). Angewandte Chemie, 2020, 132, 8045-8045.	2.0	0
58	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. Angewandte Chemie - International Edition, 2020, 59, 8042-8046.	13.8	83
59	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. Angewandte Chemie, 2020, 132, 8119-8123.	2.0	11
60	N-Coordinated Dual-Metal Single-Site Catalyst for Low-Temperature CO Oxidation. ACS Catalysis, 2020, 10, 2754-2761.	11.2	112
61	Surface chemistry and photochemistry of small molecules on rutile TiO2(001) and TiO2(011)-(2 Ã— 1) surfaces: The crucial roles of defects. Journal of Chemical Physics, 2020, 152, 044702.	3.0	9
62	Understanding morphology-dependent CuO -CeO2 interactions from the very beginning. Chinese Journal of Catalysis, 2020, 41, 1006-1016.	14.0	56
63	Titania Morphologyâ€Dependent Catalysis of CuO_x/TiO₂ Catalysts in CO Oxidation and Water Gas Shift Reactions. ChemCatChem, 2020, 12, 3679-3686.	3.7	29
64	Surface chemistry of TiO₂ connecting thermal catalysis and photocatalysis. Physical Chemistry Chemical Physics, 2020, 22, 9875-9909.	2.8	42
65	Size-Dependent Pt-TiO₂ Strong Metalâ€“Support Interaction. Journal of Physical Chemistry Letters, 2020, 11, 4603-4607.	4.6	50
66	Influence of Polyvinylpyrrolidone Capping Ligands on Electrocatalytic Oxidation of Methanol and Ethanol over Palladium Nanocrystal Electrocatalysts. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	1
67	Oxidation of Reduced Ceria by Incorporation of Hydrogen. Angewandte Chemie, 2019, 131, 14828-14835.	2.0	25
68	Oxidation of Reduced Ceria by Incorporation of Hydrogen. Angewandte Chemie - International Edition, 2019, 58, 14686-14693.	13.8	112
69	Support-dependent rate-determining step of CO2 hydrogenation to formic acid on metal oxide supported Pd catalysts. Journal of Catalysis, 2019, 376, 57-67.	6.2	83
70	Surface chemistry and catalysis of oxide model catalysts from single crystals to nanocrystals. Surface Science Reports, 2019, 74, 100471.	7.2	99
71	Electronic Metalâ€Support Interactionâ€Modified Structures and Catalytic Activity of CeO x Overlayers in CeO x /Ag Inverse Catalysts. Chemistry - A European Journal, 2019, 25, 15978-15982.	3.3	12
72	Anatase TiO₂(001)-(1 Ã— 4) Surface Is Intrinsically More Photocatalytically Active than the Rutile TiO₂(110)-(1 Ã— 1) Surface. Journal of Physical Chemistry C, 2019, 123, 24558-24565.	3.1	19

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73	Perspective on construction of heterojunction photocatalysts and the complete utilization of photogenerated charge carriers. Applied Surface Science, 2019, 476, 982-992.	6.1	101
74	Siteâ€Resolved Cu₂O Catalysis in the Oxidation of CO. Angewandte Chemie - International Edition, 2019, 58, 4276-4280.	13.8	81
75	Siteâ€Resolved Cu 2 O Catalysis in the Oxidation of CO. Angewandte Chemie, 2019, 131, 4320-4324.	2.0	12
76	Gas-Phase Reaction Network of Li/MgO-Catalyzed Oxidative Coupling of Methane and Oxidative Dehydrogenation of Ethane. ACS Catalysis, 2019, 9, 2514-2520.	11.2	71
77	Pentacoordinated Al³⁺â€Stabilized Active Pd Structures on Al₂O₃â€Coated Palladium Catalysts for Methane Combustion. Angewandte Chemie - International Edition, 2019, 58, 12043-12048.	13.8	109
78	Methanol Partial Oxidation Over Shaped Silver Nanoparticles Derived from Cubic and Octahedral Ag2O Nanocrystals. Catalysis Letters, 2019, 149, 2482-2491.	2.6	8
79	Pentacoordinated Al³⁺â€Stabilized Active Pd Structures on Al₂O₃â€Coated Palladium Catalysts for Methane Combustion. Angewandte Chemie, 2019, 131, 12171-12176.	2.0	10
80	Morphologieâ€optimierte hochaktive und â€stabile Ru/TiO₂â€Katalysatoren fÃ¼r die selektive COâ€Methanisierung. Angewandte Chemie, 2019, 131, 10842-10847.	2.0	7
81	Morphologyâ€Engineered Highly Active and Stable Ru/TiO₂ Catalysts for Selective CO Methanation. Angewandte Chemie - International Edition, 2019, 58, 10732-10736.	13.8	81
82	Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. ACS Catalysis, 2019, 9, 5692-5707.	11.2	127
83	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. Journal of the American Chemical Society, 2019, 141, 4505-4509.	13.7	285
84	Morphology-Dependent Evolutions of Sizes, Structures, and Catalytic Activity of Au Nanoparticles on Anatase TiO₂ Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 10367-10376.	3.1	39
85	Direct evidence for hydrated protons as the active species in artificial photocatalytic water reduction into hydrogen. Science China Chemistry, 2019, 62, 199-204.	8.2	23
86	Isoelectric point-controlled preferential photodeposition of platinum on Cu2O-TiO2 composite surfaces. Chinese Chemical Letters, 2019, 30, 985-988.	9.0	19
87	Crystal-plane effect of Cu₂O templates on compositions, structures and catalytic performance of Ag/Cu₂O nanocomposites. CrystEngComm, 2019, 21, 2002-2008.	2.6	26
88	Electronic Metalâ€Support Interactionâ€Modified Structures and Catalytic Activity of CeO x Overlayers in CeO x /Ag Inverse Catalysts. Chemistry - A European Journal, 2019, 25, 15962-15962.	3.3	0
89	On the Mechanism of Methyl Formate Production Initiated by Photooxidation of Methanol on Rutile TiO₂(110) and TiO₂(011)-(2 Ã— 1) Surfaces. Journal of Physical Chemistry C, 2019, 123, 31073-31081.	3.1	14
90	Surface Chemistry of CH2I2 on Clean, Hydrogen- and Carbon Monoxide-Covered Co(0001) Surfaces. Journal of Physical Chemistry C, 2019, 123, 7740-7748.	3.1	4

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91	Surface and interface design for heterogeneous catalysis. Physical Chemistry Chemical Physics, 2019, 21, 523-536.	2.8	49
92	Tuning CuOx-TiO2 interaction and photocatalytic hydrogen production of CuOx/TiO2 photocatalysts via TiO2 morphology engineering. Applied Surface Science, 2019, 473, 500-510.	6.1	51
93	Spectroscopic study of microstructure-reducibility relation of CexZr1â^'xO2 solid solutions. Applied Surface Science, 2019, 467-468, 361-369.	6.1	11
94	Thermal-, photo- and electron-induced reactivity of hydrogen species on rutile TiO2(110) surface: Role of oxygen vacancy. Chinese Chemical Letters, 2018, 29, 752-756.	9.0	27
95	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO₂. Angewandte Chemie - International Edition, 2018, 57, 1944-1948.	13.8	888
96	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO₂. Angewandte Chemie, 2018, 130, 1962-1966.	2.0	244
97	Photocatalytic organic transformations: Simultaneous oxidation of aromatic alcohols and reduction of nitroarenes on CdLa2S4 in one reaction system. Applied Catalysis B: Environmental, 2018, 233, 1-10.	20.2	44
98	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. Nature Communications, 2018, 9, 1231.	12.8	213
99	Hollow PdCo alloy nanospheres with mesoporous shells as high-performance catalysts for methanol oxidation. Journal of Colloid and Interface Science, 2018, 522, 264-271.	9.4	61
100	Surface Immobilization of Transition Metal Ions on Nitrogenâ€Doped Graphene Realizing Highâ€Efficient and Selective CO₂ Reduction. Advanced Materials, 2018, 30, e1706617.	21.0	276
101	Anin situDRIFTS mechanistic study of CeO₂-catalyzed acetylene semihydrogenation reaction. Physical Chemistry Chemical Physics, 2018, 20, 9659-9670.	2.8	63
102	Facet Sensitivity of Capping Ligandâ€Free Ag Crystals in CO₂ Electrochemical Reduction to CO. ChemCatChem, 2018, 10, 5128-5134.	3.7	29
103	Site- and surface species-dependent propylene oxidation with molecular oxygen on gold surface. Chinese Chemical Letters, 2018, 29, 1883-1887.	9.0	7
104	Titania-morphology-dependent dual-perimeter-sites catalysis by Au/TiO2 catalysts in low-temperature CO oxidation. Journal of Catalysis, 2018, 368, 163-171.	6.2	47
105	Effect of Particle Shape and Electrolyte Cation on CO Adsorption to Copper Oxide Nanoparticle Electrocatalysts. Journal of Physical Chemistry C, 2018, 122, 26489-26498.	3.1	33
106	Sizeâ€Dependency of Gold Nanoparticles on TiO₂ for CO Oxidation. Small Methods, 2018, 2, 1800273.	8.6	16
107	The Double-Edged Sword Effect of Water in the Low-Temperature CO Oxidation on Pt(111) Surface. Journal of Physical Chemistry C, 2018, 122, 22530-22537.	3.1	7
108	A flow-pulse adsorption-microcalorimetry system for studies of adsorption processes on powder catalysts. Review of Scientific Instruments, 2018, 89, 064101.	1.3	17

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109	Pd Doped La0.1Sr0.9TiO3 as High-Temperature Water-Gas Shift Catalysts: In-Situ Formation of Active Pd Phase. Catalysis Letters, 2018, 148, 2830-2838.	2.6	6
110	Ultra-low content of Pt modified CdS nanorods: Preparation, characterization, and application for photocatalytic selective oxidation of aromatic alcohols and reduction of nitroarenes in one reaction system. Journal of Hazardous Materials, 2018, 360, 182-192.	12.4	45
111	Synthesis in a Glovebox: Utilizing Surface Oxygen Vacancies To Enhance the Atomic Dispersion of Palladium on Ceria for Carbon Monoxide Oxidation and Propane Combustion. ACS Applied Nano Materials, 2018, 1, 4988-4997.	5.0	39
112	Flowerlike NiCo₂S₄ Hollow Sub-Microspheres with Mesoporous Nanoshells Support Pd Nanoparticles for Enhanced Hydrogen Evolution Reaction Electrocatalysis in Both Acidic and Alkaline Conditions. ACS Applied Materials & Interfaces, 2018, 10, 22248-22256.	8.0	52
113	Doping-induced structural phase transition in cobalt diselenide enables enhanced hydrogen evolution catalysis. Nature Communications, 2018, 9, 2533.	12.8	356
114	Surface chemistry of solid catalysts. Scientia Sinica Chimica, 2018, 48, 1076-1093.	0.4	10
115	Alloying Au surface with Pd reduces the intrinsic activity in catalyzing CO oxidation. Catalysis Today, 2017, 280, 253-258.	4.4	22
116	Selfâ€Anticoking of a Cobalt Surface by Subsurface Oxygen in the Fischerâ€“Tropsch Synthesis. Chemistry - A European Journal, 2017, 23, 3262-3266.	3.3	8
117	Enhancing both selectivity and coking-resistance of a single-atom Pd1/C3N4 catalyst for acetylene hydrogenation. Nano Research, 2017, 10, 1302-1312.	10.4	220
118	Structural Dependence of Competitive Adsorption of Water and Methanol on <scp>TiO₂</scp> Surfaces. Chinese Journal of Chemistry, 2017, 35, 889-895.	4.9	12
119	Surface Reconstruction-Induced Site-Specific Charge Separation and Photocatalytic Reaction on Anatase TiO₂(001) Surface. Journal of Physical Chemistry C, 2017, 121, 9991-9999.	3.1	37
120	Recent progress and perspectives in the photocatalytic CO2 reduction of Ti-oxide-based nanomaterials. Applied Surface Science, 2017, 396, 1696-1711.	6.1	168
121	NbO x /CeO 2 -rods catalysts for oxidative dehydrogenation of propane: Nbâ€“CeO 2 interaction and reaction mechanism. Journal of Catalysis, 2017, 348, 189-199.	6.2	59
122	Surface chemistry of group IB metals and related oxides. Chemical Society Reviews, 2017, 46, 1977-2000.	38.1	51
123	Fe-doped CeO2 solid solutions: Substituting-site doping versus interstitial-site doping, bulk doping versus surface doping. Applied Surface Science, 2017, 414, 131-139.	6.1	32
124	Distribution and role of Li in Li-doped MgO catalysts for oxidative coupling of methane. Journal of Catalysis, 2017, 346, 57-61.	6.2	52
125	Reaction Sensitivity of Ceria Morphology Effect on Ni/CeO₂ Catalysis in Propane Oxidation Reactions. ACS Applied Materials & Interfaces, 2017, 9, 35897-35907.	8.0	105
126	The most active Cu facet for low-temperature water gas shift reaction. Nature Communications, 2017, 8, 488.	12.8	141

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127	Elementary Surface Reactions on Co(0001) under Fischerâ€“Tropsch Synthesis Conditions. Journal of Physical Chemistry C, 2017, 121, 21535-21540.	3.1	15
128	Boosting CO₂ electroreduction over layered zeolitic imidazolate frameworks decorated with Ag₂O nanoparticles. Journal of Materials Chemistry A, 2017, 5, 19371-19377.	10.3	61
129	Surface Chemistry of Formaldehyde on Rutile TiO₂(011)-(2 Ã— 1) Surface: Photocatalysis Versus Thermal-Catalysis. Journal of Physical Chemistry C, 2017, 121, 25921-25929.	3.1	23
130	Gas phase propylene epoxidation over Au supported on titanosilicates with different Ti chemical environments. Applied Surface Science, 2017, 393, 11-22.	6.1	27
131	Structure-Sensitivity of Au Catalysis. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 48-60.	4.9	15
132	Reaction heat-driven CO2 desorption during CO oxidation on Au(997) at low temperatures. Science China Chemistry, 2016, 59, 752-759.	8.2	5
133	Oxide Nanocrystal Model Catalysts. Accounts of Chemical Research, 2016, 49, 520-527.	15.6	184
134	Water-Activated Lattice Oxygen in FeO(111) Islands for Low-Temperature Oxidation of CO at Ptâ€“FeO Interface. Journal of Physical Chemistry C, 2016, 120, 9845-9851.	3.1	32
135	Activating Edge Sites on Pd Catalysts for Selective Hydrogenation of Acetylene via Selective Ga₂O₃ Decoration. ACS Catalysis, 2016, 6, 3700-3707.	11.2	97
136	Morphology-dependent structures and catalytic performances of Au nanostructures on Cu 2 O nanocrystals synthesized by galvanic replacement reaction. Journal of Energy Chemistry, 2016, 25, 1086-1091.	12.9	21
137	Lowâ€Temperature Transformation of Methane to Methanol on Pd₁O₄ Single Sites Anchored on the Internal Surface of Microporous Silicate. Angewandte Chemie - International Edition, 2016, 55, 13441-13445.	13.8	180
138	Probing Surface Structures of CeO₂, TiO₂, and Cu₂O Nanocrystals with CO and CO₂ Chemisorption. Journal of Physical Chemistry C, 2016, 120, 21472-21485.	3.1	143
139	Influences of TiO2 phase structures on the structures and photocatalytic hydrogen production of CuOx/TiO2 photocatalysts. Applied Surface Science, 2016, 389, 760-767.	6.1	56
140	Auâ€Cu Alloy Formation on Cubic Cu₂O Nanocrystals at Ambient Temperature and Their Catalytic Performance. ChemNanoMat, 2016, 2, 861-865.	2.8	12
141	Morphology-dependent defect structures and photocatalytic performance of hydrogenated anatase TiO2 nanocrystals. Journal of Catalysis, 2016, 341, 126-135.	6.2	94
142	Atomically Dispersed Ru on Ultrathin Pd Nanoribbons. Journal of the American Chemical Society, 2016, 138, 13850-13853.	13.7	132
143	Proton-Transfer-Connected Elementary Surface Reaction Network for Low-Temperature CO Oxidation Catalyzed by Metal-Oxide Nanocatalysts. Journal of Physical Chemistry C, 2016, 120, 26968-26973.	3.1	12
144	Surface reaction network of CO oxidation on CeO₂/Au(110) inverse model catalysts. Physical Chemistry Chemical Physics, 2016, 18, 32551-32559.	2.8	9

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145	Oxidation of formic acid on stepped Au(997) surface. Chinese Journal of Catalysis, 2016, 37, 1738-1746.	14.0	6
146	Lowâ€Temperature Transformation of Methane to Methanol on Pd₁O₄ Single Sites Anchored on the Internal Surface of Microporous Silicate. Angewandte Chemie, 2016, 128, 13639-13643.	2.0	40
147	Methanol Conversion into Dimethyl Ether on the Anatase TiO₂(001) Surface. Angewandte Chemie - International Edition, 2016, 55, 623-628.	13.8	64
148	CeO2 morphology-dependent NbOx â€“CeO2 interaction, structure and catalytic performance of NbOx/CeO2 catalysts in oxidative dehydrogenation of propane. Applied Catalysis B: Environmental, 2016, 197, 214-221.	20.2	58
149	Utilization of Active Ni to Fabricate Ptâ€“Ni Nanoframe/NiAl Layered Double Hydroxide Multifunctional Catalyst through In Situ Precipitation. Chemistry - A European Journal, 2015, 21, 13181-13185.	3.3	19
150	Titania Morphologyâ€Dependent Goldâ€“Titania Interaction, Structure, and Catalytic Performance of Gold/Titania Catalysts. ChemCatChem, 2015, 7, 3290-3298.	3.7	60
151	TiO₂/Cu₂O Core/Ultrathin Shell Nanorods as Efficient and Stable Photocatalysts for Water Reduction. Angewandte Chemie - International Edition, 2015, 54, 15260-15265.	13.8	109
152	Identification of different oxygen species in oxide nanostructures with ¹⁷ O solid-state NMR spectroscopy. Science Advances, 2015, 1, e1400133.	10.3	72
153	Rich Capping Ligandâ€“Ag Colloid Interactions. Journal of Physical Chemistry C, 2015, 119, 27588-27593.	3.1	16
154	Morphology-dependent interplay of reduction behaviors, oxygen vacancies and hydroxyl reactivity of CeO₂ nanocrystals. Physical Chemistry Chemical Physics, 2015, 17, 31862-31871.	2.8	96
155	Catalysis on singly dispersed bimetallic sites. Nature Communications, 2015, 6, 7938.	12.8	235
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