Wei-Xin Huang

List of Publications by Year
in descending order

270 papers	15,802 citations	10986 71 h-index	22166 113 g-index
280 all docs	280 docs citations	280 times ranked	15045 citing authors

#	Article	IF	Citations
1	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
2	Doping-induced structural phase transition in cobalt diselenide enables enhanced hydrogen evolution catalysis. Nature Communications, 2018, 9, 2533.	12.8	356
3	Spectroscopic studies of interfacial structures of CeO2â€“TiO2 mixed oxides. Applied Surface Science, 2007, 253, 8952-8961.	6.1	315
4	Shape-dependent interplay between oxygen vacancies and Agâ€“CeO2 interaction in Ag/CeO2 catalysts and their influence on the catalytic activity. Journal of Catalysis, 2012, 293, 195-204.	6.2	303
5	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
6	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
7	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO₂. Angewandte Chemie, 2018, 130, 1962-1966.	2.0	244
8	Understanding complete oxidation of methane on spinel oxides at a molecular level. Nature Communications, 2015, 6, 7798.	12.8	237
9	Catalysis on singly dispersed bimetallic sites. Nature Communications, 2015, 6, 7938.	12.8	235
10	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
11	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. Nature Communications, 2018, 9, 1231.	12.8	213
12	Morphology-dependent surface chemistry and catalysis of CeO₂nanocrystals. Catalysis Science and Technology, 2014, 4, 3772-3784.	4.1	198
13	Structure-activity Relation of Fe2O3â€“CeO2 Composite Catalysts in CO Oxidation. Catalysis Letters, 2008, 125, 160-167.	2.6	197
14	Morphology Effect of CeO₂ Support in the Preparation, Metalâ€“Support Interaction, and Catalytic Performance of Pt/CeO₂ Catalysts. ChemCatChem, 2013, 5, 3610-3620.	3.7	189
15	Oxide Nanocrystal Model Catalysts. Accounts of Chemical Research, 2016, 49, 520-527.	15.6	184
16	Crystalâ€Planeâ€Controlled Selectivity of Cu₂O Catalysts in Propylene Oxidation with Molecular Oxygen. Angewandte Chemie - International Edition, 2014, 53, 4856-4861.	13.8	180
17	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
18	Formation of subsurface oxygen species and its high activity toward CO oxidation over silver catalysts. Journal of Catalysis, 2005, 229, 446-458.	6.2	174

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19	Morphological Evolution of Cu₂O Nanocrystals in an Acid Solution: Stability of Different Crystal Planes. Langmuir, 2011, 27, 665-671.	3.5	170
20	Influence of Speciation of Aqueous HAuCl₄ on the Synthesis, Structure, and Property of Au Colloids. Journal of Physical Chemistry C, 2009, 113, 6505-6510.	3.1	169
21	Recent progress and perspectives in the photocatalytic CO2 reduction of Ti-oxide-based nanomaterials. Applied Surface Science, 2017, 396, 1696-1711.	6.1	168
22	Bifunctional N-Doped Mesoporous TiO₂ Photocatalysts. Journal of Physical Chemistry C, 2008, 112, 18150-18156.	3.1	162
23	Structure Sensitivity of Auâ€TiO₂ Strong Metalâ€"Support Interactions. Angewandte Chemie - International Edition, 2021, 60, 12074-12081.	13.8	161
24	Direct XPS Evidence for Charge Transfer from a Reduced Rutile TiO₂(110) Surface to Au Clusters. Journal of Physical Chemistry C, 2007, 111, 12434-12439.	3.1	156
25	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
26	Reactivity of Hydroxyls and Water on a CeO₂(111) Thin Film Surface: The Role of Oxygen Vacancy. Journal of Physical Chemistry C, 2013, 117, 5800-5810.	3.1	154
27	Size-Dependent Interaction of the Poly(<i>N</i>-vinyl-2-pyrrolidone) Capping Ligand with Pd Nanocrystals. Langmuir, 2012, 28, 6736-6741.	3.5	151
28	Crystalâ€Planeâ€Controlled Surface Restructuring and Catalytic Performance of Oxide Nanocrystals. Angewandte Chemie - International Edition, 2011, 50, 12294-12298.	13.8	149
29	Size-Dependent Reaction Pathways of Low-Temperature CO Oxidation on Au/CeO₂ Catalysts. ACS Catalysis, 2015, 5, 1653-1662.	11.2	143
30	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
31	The most active Cu facet for low-temperature water gas shift reaction. Nature Communications, 2017, 8, 488.	12.8	141
32	Kinetic study and the effect of particle size on low temperature CO oxidation over Pt/TiO2 catalysts. Applied Catalysis B: Environmental, 2013, 142-143, 523-532.	20.2	135
33	Atomically Dispersed Ru on Ultrathin Pd Nanoribbons. Journal of the American Chemical Society, 2016, 138, 13850-13853.	13.7	132
34	Simultaneous oxidative and reductive reactions in one system by atomic design. Nature Catalysis, 2021, 4, 134-143.	34.4	132
35	Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. ACS Catalysis, 2019, 9, 5692-5707.	11.2	127
36	Photocatalytic Cross-Coupling of Methanol and Formaldehyde on a Rutile TiO₂(110) Surface. Journal of the American Chemical Society, 2013, 135, 5212-5219.	13.7	123

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37	Synergetic Effects of PdO Species on CO Oxidation over PdOâ€“CeO₂ Catalysts. Journal of Physical Chemistry C, 2011, 115, 19789-19796.	3.1	115
38	Oxidation of Reduced Ceria by Incorporation of Hydrogen. Angewandte Chemie - International Edition, 2019, 58, 14686-14693.	13.8	112
39	N-Coordinated Dual-Metal Single-Site Catalyst for Low-Temperature CO Oxidation. ACS Catalysis, 2020, 10, 2754-2761.	11.2	112
40	Restructuring and Redispersion of Silver on SiO2under Oxidizing/Reducing Atmospheres and Its Activity toward CO Oxidation. Journal of Physical Chemistry B, 2005, 109, 15842-15848.	2.6	111
41	CuOxâ€“TiO2 junction: what is the active component for photocatalytic H2 production?. Physical Chemistry Chemical Physics, 2013, 15, 14956.	2.8	110
42	Structureâ€“activity relationship of CuO/MnO2 catalysts in CO oxidation. Applied Surface Science, 2013, 273, 357-363.	6.1	109
43	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
44	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
45	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
46	Reduced graphene oxide supported Au nanoparticles as an efficient catalyst for aerobic oxidation of benzyl alcohol. Applied Surface Science, 2013, 280, 450-455.	6.1	104
47	Identification of active sites for CO and CH4 oxidation over PdO/Ce1âˆ’xPdxO2âˆ’Î´ catalysts. Applied Catalysis B: Environmental, 2012, 119-120, 117-122.	20.2	103
48	Compositions, Structures, and Catalytic Activities of CeO₂@Cu₂O Nanocomposites Prepared by the Template-Assisted Method. Langmuir, 2014, 30, 6427-6436.	3.5	101
49	Perspective on construction of heterojunction photocatalysts and the complete utilization of photogenerated charge carriers. Applied Surface Science, 2019, 476, 982-992.	6.1	101
50	Surface chemistry and catalysis of oxide model catalysts from single crystals to nanocrystals. Surface Science Reports, 2019, 74, 100471.	7.2	99
51	Activating Edge Sites on Pd Catalysts for Selective Hydrogenation of Acetylene via Selective Ga₂O₃ Decoration. ACS Catalysis, 2016, 6, 3700-3707.	11.2	97
52	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
53	Morphology-dependent defect structures and photocatalytic performance of hydrogenated anatase TiO2 nanocrystals. Journal of Catalysis, 2016, 341, 126-135.	6.2	94
54	Crystal Plane-Dependent Compositional and Structural Evolution of Uniform Cu₂O Nanocrystals in Aqueous Ammonia Solutions. Journal of Physical Chemistry C, 2011, 115, 20618-20627.	3.1	91

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55	Evidence for the Growth Mechanisms of Silver Nanocubes and Nanowires. Journal of Physical Chemistry C, 2011, 115, 7979-7986.	3.1	91
56	Crystalâ€Planeâ€Controlled Surface Chemistry and Catalytic Performance of Surfactantâ€Free Cu₂O Nanocrystals. ChemSusChem, 2013, 6, 1966-1972.	6.8	89
57	Controllably Interfacing with Metal: A Strategy for Enhancing CO Oxidation on Oxide Catalysts by Surface Polarization. Journal of the American Chemical Society, 2014, 136, 14650-14653.	13.7	89
58	Shape-Dependent Reducibility of Cuprous Oxide Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 6676-6680.	3.1	88
59	Catalytically active structures of SiO₂-supported Au nanoparticles in low-temperature CO oxidation. Catalysis Science and Technology, 2013, 3, 679-687.	4.1	87
60	Direct Evidence for the Interfacial Oxidation of CO with Hydroxyls Catalyzed by Pt/Oxide Nanocatalysts. Journal of the American Chemical Society, 2009, 131, 16366-16367.	13.7	86
61	Influence and Removal of Capping Ligands on Catalytic Colloidal Nanoparticles. Catalysis Letters, 2014, 144, 1355-1369.	2.6	84
62	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
63	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
64	The active sites of Cuâ€“ZnO catalysts for water gas shift and CO hydrogenation reactions. Nature Communications, 2021, 12, 4331.	12.8	83
65	Low-temperature CO oxidation over Au/ZnO/SiO2 catalysts: Some mechanism insights. Journal of Catalysis, 2008, 255, 269-278.	6.2	81
66	Siteâ€Resolved Cu₂O Catalysis in the Oxidation of CO. Angewandte Chemie - International Edition, 2019, 58, 4276-4280.	13.8	81
67	Morphologyâ€Engineered Highly Active and Stable Ru/TiO₂ Catalysts for Selective CO Methanation. Angewandte Chemie - International Edition, 2019, 58, 10732-10736.	13.8	81
68	Engineering highly active TiO2 photocatalysts via the surface-phase junction strategy employing a titanate nanotube precursor. Journal of Catalysis, 2014, 310, 16-23.	6.2	78
69	A comparative study of formaldehyde and carbon monoxide complete oxidation on MnOx-CeO2 catalysts. Journal of Rare Earths, 2009, 27, 418-424.	4.8	76
70	Influences of CeO2 microstructures on the structure and activity of Au/CeO2/SiO2 catalysts in CO oxidation. Journal of Molecular Catalysis A, 2009, 306, 40-47.	4.8	75
71	Methyl Radicals in Oxidative Coupling of Methane Directly Confirmed by Synchrotron VUV Photoionization Mass Spectroscopy. Scientific Reports, 2013, 3, 1625.	3.3	75
72	Identification of different oxygen species in oxide nanostructures with ¹⁷ O solid-state NMR spectroscopy. Science Advances, 2015, 1, e1400133.	10.3	72

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73	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
74	Interfacial and Surface Structures of CeO₂â^'TiO₂ Mixed Oxides. Journal of Physical Chemistry C, 2007, 111, 19078-19085.	3.1	68
75	One-Step Synthesis of Bifunctional TiO₂Catalysts and Their Photocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 7940-7948.	3.1	66
76	Surface Chemistry of Formaldehyde on Rutile TiO₂(110) Surface: Photocatalysis vs Thermal-Catalysis. Journal of Physical Chemistry C, 2014, 118, 20420-20428.	3.1	65
77	Methanol Conversion into Dimethyl Ether on the Anatase TiO₂(001) Surface. Angewandte Chemie - International Edition, 2016, 55, 623-628.	13.8	64
78	Metal-Free Ceria Catalysis for Selective Hydrogenation of Crotonaldehyde. ACS Catalysis, 2020, 10, 14560-14566.	11.2	64
79	Autocatalytic partial reduction of FeO(111) and Fe3O4(111) films by atomic hydrogen. Surface Science, 2006, 600, 793-802.	1.9	63
80	Auâ€"Pd alloying-promoted thermal decomposition of PdO supported on SiO2 and its effect on the catalytic performance in CO oxidation. Catalysis Today, 2011, 164, 320-324.	4.4	63
81	An<i>in situ</i>DRIFTS mechanistic study of CeO₂-catalyzed acetylene semihydrogenation reaction. Physical Chemistry Chemical Physics, 2018, 20, 9659-9670.	2.8	63
82	Ceria morphology-dependent Pd-CeO2 interaction and catalysis in CO2 hydrogenation into formate. Journal of Catalysis, 2021, 397, 116-127.	6.2	63
83	Quantification of critical particle distance for mitigating catalyst sintering. Nature Communications, 2021, 12, 4865.	12.8	62
84	Boosting CO₂ electroreduction over layered zeolitic imidazolate frameworks decorated with Ag₂O nanoparticles. Journal of Materials Chemistry A, 2017, 5, 19371-19377.	10.3	61
85	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
86	Titania Morphologyâ€Dependent Goldâ€"Titania Interaction, Structure, and Catalytic Performance of Gold/Titania Catalysts. ChemCatChem, 2015, 7, 3290-3298.	3.7	60
87	Hydroxyls-induced oxygen activation on â€œinertâ€•Au nanoparticles for low-temperature CO oxidation. Journal of Catalysis, 2011, 277, 95-103.	6.2	59
88	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
89	Crystal Plane-Dependent Surface Reactivity and Catalytic Property of Oxide Catalysts Studied with Oxide Nanocrystal Model Catalysts. Topics in Catalysis, 2013, 56, 1363-1376.	2.8	58
90	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

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91	Structure sensitivity of low-temperature NO decomposition on Au surfaces. Journal of Catalysis, 2013, 304, 112-122.	6.2	56
92	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
93	Understanding morphology-dependent CuO -CeO2 interactions from the very beginning. Chinese Journal of Catalysis, 2020, 41, 1006-1016.	14.0	56
94	Active hydrogen species on TiO2 for photocatalytic H2 production. Physical Chemistry Chemical Physics, 2014, 16, 7051.	2.8	54
95	Water Adsorption on a Co(0001) Surface. Journal of Physical Chemistry C, 2010, 114, 17023-17029.	3.1	53
96	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
97	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
98	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
99	TiO2 Facet-dependent reconstruction and photocatalysis of CuOx/TiO2 photocatalysts in CO2 photoreduction. Applied Surface Science, 2021, 564, 150407.	6.1	52
100	Surface chemistry of group IB metals and related oxides. Chemical Society Reviews, 2017, 46, 1977-2000.	38.1	51
101	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
102	Selective Aerobic Oxidation of Alcohols by Using Manganese Oxide Nanoparticles as an Efficient Heterogeneous Catalyst. Advanced Synthesis and Catalysis, 2012, 354, 569-573.	4.3	50
103	Size-Dependent Pt-TiO₂ Strong Metalâ€"Support Interaction. Journal of Physical Chemistry Letters, 2020, 11, 4603-4607.	4.6	50
104	Cu2O-Au nanocomposites with novel structures and remarkable chemisorption capacity and photocatalytic activity. Nano Research, 2011, 4, 948-962.	10.4	49
105	Surface and interface design for heterogeneous catalysis. Physical Chemistry Chemical Physics, 2019, 21, 523-536.	2.8	49
106	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
107	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
108	Enhancing catalytic selectivity of supported metal nanoparticles with capping ligands. Physical Chemistry Chemical Physics, 2013, 15, 2273.	2.8	44

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109	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
110	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
111	Grafting nanometer metal/oxide interface towards enhanced low-temperature acetylene semi-hydrogenation. Nature Communications, 2021, 12, 5770.	12.8	43
112	Surface chemistry of TiO₂ connecting thermal catalysis and photocatalysis. Physical Chemistry Chemical Physics, 2020, 22, 9875-9909.	2.8	42
113	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
114	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
115	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
116	Oxygen Vacancy-Controlled Reactivity of Hydroxyls on an FeO(111) Monolayer Film. Journal of Physical Chemistry C, 2011, 115, 6815-6824.	3.1	38
117	Effect of Calcination Temperature on Surface Oxygen Vacancies and Catalytic Performance Towards CO Oxidation of Co3O4 Nanoparticles Supported on SiO2. Chinese Journal of Chemical Physics, 2012, 25, 103-109.	1.3	37
118	Effect of reduction temperature on selective hydrogenation of crotonaldehyde over Ir/TiO2 catalysts. Applied Catalysis A: General, 2012, 433-434, 236-242.	4.3	37
119	Structural features and catalytic performance in CO preferential oxidation of CuOâ€“CeO₂ supported on multi-walled carbon nanotubes. Catalysis Science and Technology, 2015, 5, 1568-1579.	4.1	37
120	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
121	Reduction of an Î±-Fe2O3(0001) Film Using Atomic Hydrogen. Journal of Physical Chemistry C, 2007, 111, 2198-2204.	3.1	36
122	Hydroxyls-Involved Interfacial CO Oxidation Catalyzed by FeOx(111) Monolayer Islands Supported on Pt(111) and the Unique Role of Oxygen Vacancy. Journal of Physical Chemistry C, 2011, 115, 14290-14299.	3.1	36
123	Molecular-Level Understanding of the Catalytic Cycle of Dehydrogenation of Ethylbenzene to Styrene over Iron Oxide-Based Catalyst. Journal of Physical Chemistry B, 2005, 109, 9202-9204.	2.6	34
124	Effect of oxygen treatment on the catalytic activity of Au/SiO2 catalysts. Journal of Molecular Catalysis A, 2007, 264, 26-32.	4.8	34
125	Understanding the depositionâ€“precipitation process for the preparation of supported Au catalysts. Journal of Molecular Catalysis A, 2010, 320, 97-105.	4.8	34
126	Single-Site Catalysis of Li-MgO Catalysts for Oxidative Coupling of Methane Reaction. ACS Catalysis, 2020, 10, 15142-15148.	11.2	34

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127	Engineering self-doped surface defects of anatase TiO2 nanosheets for enhanced photocatalytic efficiency. Applied Surface Science, 2021, 540, 148330.	6.1	34
128	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
129	A DFT Study of the Structures of Au_{<i>x</i>} Clusters on a CeO₂(111) Surface. ChemPhysChem, 2012, 13, 1261-1271.	2.1	33
130	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
131	Highly Selective Acetylene Semihydrogenation Catalyst with an Operation Window Exceeding 150 Â°C. ACS Catalysis, 2021, 11, 6073-6080.	11.2	33
132	Fine cubic Cu2O nanocrystals as highly selective catalyst for propylene epoxidation with molecular oxygen. Nature Communications, 2021, 12, 5921.	12.8	33
133	Morphology-engineered highly active and stable Pd/TiO2 catalysts for CO2 hydrogenation into formate. Journal of Catalysis, 2022, 405, 152-163.	6.2	33
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	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
136	Facet Sensitivity of Capping Ligandâ€Free Ag Crystals in CO₂ Electrochemical Reduction to CO. ChemCatChem, 2018, 10, 5128-5134.	3.7	29
137	Morphology-dependent CeO2 catalysis in acetylene semihydrogenation reaction. Applied Surface Science, 2020, 501, 144120.	6.1	29
138	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
139	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
140	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
141	Ag/SiO2 catalysts prepared via Î³-ray irradiation and their catalytic activities in CO oxidation. Journal of Molecular Catalysis A, 2007, 274, 95-100.	4.8	28
142	Oxygen Vacancy-Induced Novel Low-Temperature Water Splitting Reactions on FeO(111) Monolayer-Thick Film. Journal of Physical Chemistry C, 2012, 116, 22921-22929.	3.1	28
143	Reactivity of hydrogen species on oxide surfaces. Science China Chemistry, 2021, 64, 1076-1087.	8.2	28
144	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

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145	Surface Chemistry of C₂H₄, CO, and H₂ on Clean and Graphite Carbon-Modified Co(0001) Surfaces. Journal of Physical Chemistry C, 2011, 115, 3416-3424.	3.1	27
146	Sandwich SrTiO 3 /TiO 2 /H-Titanate nanofiber composite photocatalysts for efficient photocatalytic hydrogen evolution. Applied Surface Science, 2014, 315, 314-322.	6.1	27
147	Gas phase propylene epoxidation over Au supported on titanosilicates with different Ti chemical environments. Applied Surface Science, 2017, 393, 11-22.	6.1	27
148	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
149	Surface chemistry of NO and NO2 on the Pt(110)-(1Ã—2) surface: A comparative study. Surface Science, 2006, 600, 4860-4869.	1.9	26
150	Restructuringâ€Induced Activity of SiO₂â€Supported Large Au Nanoparticles in Lowâ€Temperature CO Oxidation. Chemistry - A European Journal, 2008, 14, 10595-10602.	3.3	26
151	Crystal-plane effect of Cu₂O templates on compositions, structures and catalytic performance of Ag/Cu₂O nanocomposites. CrystEngComm, 2019, 21, 2002-2008.	2.6	26
152	Reduction of Cu2O nanocrystals: reactant-dependent influence of capping ligands and coupling between adjacent crystal planes. RSC Advances, 2011, 1, 1200.	3.6	25
153	Oxidation of Reduced Ceria by Incorporation of Hydrogen. Angewandte Chemie, 2019, 131, 14828-14835.	2.0	25
154	Zinc Oxide Morphologyâ€Dependent Pd/ZnO Catalysis in Baseâ€Free CO₂ Hydrogenation into Formic Acid. ChemCatChem, 2020, 12, 5540-5547.	3.7	24
155	Decomposition of NO2 on Pt(110): formation of a new oxygen adsorption state. Surface Science, 2002, 506, L287-L292.	1.9	23
156	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
157	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
158	Resolution deterioration in emission electron microscopy due to object roughness. Annalen Der Physik, 2000, 9, 441-451.	2.4	22
159	Alloying Au surface with Pd reduces the intrinsic activity in catalyzing CO oxidation. Catalysis Today, 2017, 280, 253-258.	4.4	22
160	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
161	Investigation of oxygen adsorption on Pd (100) with defects. Applied Surface Science, 2000, 158, 287-291.	6.1	21
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