Ming Yang

List of Publications by Citations

31 papers	2,392 citations	19 h-index	31 g-index
31 ext. papers	2,837 ext. citations	11.1 avg, IF	5.03 L-index

#	Paper	IF	Citations
31	Catalytically active Au-O(OH)x-species stabilized by alkali ions on zeolites and mesoporous oxides. *Science*, **2014**, 346, 1498-501	33.3	437
30	Selective hydrogenation of 1,3-butadiene on platinum-copper alloys at the single-atom limit. *Nature Communications*, **2015**, 6, 8550	17.4	369
29	Atomically dispersed Au-(OH)x species bound on titania catalyze the low-temperature water-gas shift reaction. *Journal of the American Chemical Society*, **2013**, 135, 3768-71	16.4	293
28	A common single-site Pt(II)-O(OH)x- species stabilized by sodium on "active" and "inert" supports catalyzes the water-gas shift reaction. *Journal of the American Chemical Society*, **2015**, 137, 3470-3	16.4	280
27	Tackling CO Poisoning with Single-Atom Alloy Catalysts. *Journal of the American Chemical Society*, **2016**, 138, 6396-9	16.4	272
26	Surpassing the single-atom catalytic activity limit through paired Pt-O-Pt ensemble built from isolated Pt atoms. *Nature Communications*, **2019**, 10, 3808	17.4	120
25	Pd/Support Interface-Promoted Pd□e0.7Zr0.3O2▲l2O3 Automobile Three-Way Catalysts: Studying the Dynamic Oxygen Storage Capacity and CO, C3H8, and NO Conversion. *Journal of Physical Chemistry C*, **2009**, 113, 3212-3221	3.8	89
24	Single gold atoms stabilized on nanoscale metal oxide supports are catalytic active centers for various reactions. *AICHE Journal*, **2016**, 62, 429-439	3.6	58
23	The role of pore diffusion in determining NH3 SCR active sites over Cu/SAPO-34 catalysts. *Journal of Catalysis*, **2016**, 341, 55-61	7.3	45
22	Design of single-atom metal catalysts on various supports for the low-temperature water-gas shift reaction. *Catalysis Today*, **2017**, 298, 216-225	5.3	44
21	Single-atom gold oxo-clusters prepared in alkaline solutions catalyse the heterogeneous methanol self-coupling reactions. *Nature Chemistry*, **2019**, 11, 1098-1105	17.6	44
20	ZnO-modified zirconia as gold catalyst support for the low-temperature methanol steam reforming reaction. *Applied Catalysis B: Environmental*, **2014**, 154-155, 142-152	21.8	42
19	Activation of subnanometric Pt on Cu-modified CeO via redox-coupled atomic layer deposition for CO oxidation. *Nature Communications*, **2020**, 11, 4240	17.4	41
18	Performance of dynamic oxygen storage capacity, water□as shift and steam reforming reactions over Pd-only three-way catalysts. *Catalysis Today*, **2010**, 158, 481-489	5.3	36
17	Pd-Supported Interaction-Defined Selective Redox Activities in Pd□e0.7Zr0.3O2▲l2O3 Model Three-Way Catalysts. *Journal of Physical Chemistry C*, **2009**, 113, 12778-12789	3.8	30
16	Single-site Pt/La-Al2O3 stabilized by barium as an active and stable catalyst in purifying CO and C3H6 emissions. *Applied Catalysis B: Environmental*, **2019**, 244, 327-339	21.8	27
15	Structure Sensitivity of Oxidative Dehydrogenation of Cyclohexane over FeOx and Au/Fe3O4 Nanocrystals. *ACS Catalysis*, **2013**, 3, 529-539	13.1	24

List of Publications

14	Aftertreatment Protocols for Catalyst Characterization and Performance Evaluation: Low-Temperature Oxidation, Storage, Three-Way, and NH3-SCR Catalyst Test Protocols. *Emission Control Science and Technology*, **2019**, 5, 183-214	2	24
13	Effects of Ni-Doping of Ceria-Based Materials on Their Micro-Structures and Dynamic Oxygen Storage and Release Behaviors. *Catalysis Letters*, **2010**, 140, 38-48	2.8	20
12	Enhanced thermal stability of palladium oxidation catalysts using phosphate-modified alumina supports. *Catalysis Science and Technology*, **2017**, 7, 5038-5048	5.5	17
11	Effects of CO2 and steam on Ba/Ce-based NOx storage reduction catalysts during lean aging. *Journal of Catalysis*, **2010**, 271, 228-238	7.3	16
10	Enhancing oxygen reduction performance of oxide-CNT through in-situ generated nanoalloy bridging. *Applied Catalysis B: Environmental*, **2020**, 263, 118297	21.8	16
9	Investigating anomalous growth of platinum particles during accelerated aging of diesel oxidation catalysts. *Applied Catalysis B: Environmental*, **2020**, 266, 118598	21.8	12
8	Modified textures and redox activities in Pt/Al2O3+BaO/CexZr1−xO2 model NSR catalysts. *Applied Catalysis B: Environmental*, **2011**, 101, 355-365	21.8	12
7	Nanocluster and single-atom catalysts for thermocatalytic conversion of CO and CO2. *Catalysis Science and Technology*, **2020**, 10, 5772-5791	5.5	12
6	Tuning Single-atom Pt1□CeO2 Catalyst for Efficient CO and C3H6 Oxidation: Size Effect of Ceria on Pt Structural Evolution. *ChemNanoMat*, **2020**, 6, 1797-1805	3.5	6
5	Thermally stable □alumina developed from the fumigation byproduct of phosphide aluminum. *Journal of Alloys and Compounds*, **2018**, 741, 256-264	5.7	3
4	Single Atomic Pt on SrTiO3 Catalyst in Reverse Water Gas Shift Reactions. *Catalysts*, **2021**, 11, 738	4	1
3	Possible negative influences of increasing content of cerium on activity and hydrothermal stability of Rh/ceria-zirconia three-way catalysts. *Journal of Rare Earths*, **2021**, 39, 797-804	3.7	1
2	Selective electroreduction of CO2 to ethanol over a highly stable catalyst derived from polyaniline/CuBi2O4. *Catalysis Science and Technology*, **2021**, 11, 5908-5916	5.5	1
1	Atomically Dispersed Precious Metal Species on Various Oxide Supports for Catalytic Hydrogen Upgrading and Emission Control. *Microscopy and Microanalysis*, **2016**, 22, 858-859	0.5	