

Zhenhua Zhang

List of Publications by Year in descending order

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32
papers

1,386
citations

304743

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31
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#	ARTICLE	IF	CITATIONS
1	Morphology-engineered highly active and stable Pd/TiO ₂ catalysts for CO ₂ hydrogenation into formate. <i>Journal of Catalysis</i> , 2022, 405, 152-163.	6.2	33
2	Structure sensitivity of CuO in CO oxidation over CeO ₂ -CuO/Cu ₂ O catalysts. <i>Journal of Catalysis</i> , 2022, 405, 333-345.	6.2	39
3	Cu ₂ O Nanocrystal Model Catalysts. <i>Chinese Journal of Chemistry</i> , 2022, 40, 846-855.	4.9	18
4	Tuning activity and selectivity of CO ₂ hydrogenation via metal-oxide interfaces over ZnO-supported metal catalysts. <i>Journal of Catalysis</i> , 2022, 407, 126-140.	6.2	34
5	Ceria-supported Pd catalysts with different size regimes ranging from single atoms to nanoparticles for the oxidation of CO. <i>Journal of Catalysis</i> , 2022, 407, 104-114.	6.2	36
6	Morphology-Dependent Catalysis of CeO ₂ -Based Nanocrystal Model Catalysts. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1856-1866.	4.9	18
7	Ceria morphology-dependent Pd-CeO ₂ interaction and catalysis in CO ₂ hydrogenation into formate. <i>Journal of Catalysis</i> , 2021, 397, 116-127.	6.2	63
8	The active sites of Cu-ZnO catalysts for water gas shift and CO hydrogenation reactions. <i>Nature Communications</i> , 2021, 12, 4331.	12.8	83
9	Fine cubic Cu ₂ O nanocrystals as highly selective catalyst for propylene epoxidation with molecular oxygen. <i>Nature Communications</i> , 2021, 12, 5921.	12.8	33
10	Morphology-dependent CeO ₂ catalysis in acetylene semihydrogenation reaction. <i>Applied Surface Science</i> , 2020, 501, 144120.	6.1	29
11	Covalent structured catalytic materials containing single-atom metal sites with controllable spatial and chemical properties: concept and application. <i>Catalysis Science and Technology</i> , 2020, 10, 6694-6700.	4.1	2
12	Metal-Free Ceria Catalysis for Selective Hydrogenation of Crotonaldehyde. <i>ACS Catalysis</i> , 2020, 10, 14560-14566.	11.2	64
13	Zinc Oxide Morphology-Dependent Pd/ZnO Catalysis in Base-Free CO ₂ Hydrogenation into Formic Acid. <i>ChemCatChem</i> , 2020, 12, 5540-5547.	3.7	24
14	Morphology-Dependent CO Reduction Kinetics and Surface Copper Species Evolution of Cu ₂ O Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21568-21576.	3.1	20
15	Understanding morphology-dependent CuO -CeO ₂ interactions from the very beginning. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1006-1016.	14.0	56
16	Titania Morphology-Dependent Catalysis of Cu _x /TiO ₂ Catalysts in CO Oxidation and Water Gas Shift Reactions. <i>ChemCatChem</i> , 2020, 12, 3679-3686.	3.7	29
17	Support-dependent rate-determining step of CO ₂ hydrogenation to formic acid on metal oxide supported Pd catalysts. <i>Journal of Catalysis</i> , 2019, 376, 57-67.	6.2	83
18	Site-Resolved Cu ₂ O Catalysis in the Oxidation of CO. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4276-4280.	13.8	81

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19	Site-Resolved Cu ₂ O Catalysis in the Oxidation of CO. <i>Angewandte Chemie</i> , 2019, 131, 4320-4324.	2.0	12
20	Zirconia phase effect in Pd/ZrO ₂ catalyzed CO ₂ hydrogenation into formate. <i>Molecular Catalysis</i> , 2019, 475, 110461.	2.0	46
21	Methanol Partial Oxidation Over Shaped Silver Nanoparticles Derived from Cubic and Octahedral Ag ₂ O Nanocrystals. <i>Catalysis Letters</i> , 2019, 149, 2482-2491.	2.6	8
22	Morphology-Dependent Evolutions of Sizes, Structures, and Catalytic Activity of Au Nanoparticles on Anatase TiO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10367-10376.	3.1	39
23	Crystal-plane effect of Cu ₂ O templates on compositions, structures and catalytic performance of Ag/Cu ₂ O nanocomposites. <i>CrystEngComm</i> , 2019, 21, 2002-2008.	2.6	26
24	An <i>in situ</i> DRIFTS mechanistic study of CeO ₂ -catalyzed acetylene semihydrogenation reaction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9659-9670.	2.8	63
25	Facet Sensitivity of Capping Ligand-Free Ag Crystals in CO ₂ Electrochemical Reduction to CO. <i>ChemCatChem</i> , 2018, 10, 5128-5134.	3.7	29
26	Titania-morphology-dependent dual-perimeter-sites catalysis by Au/TiO ₂ catalysts in low-temperature CO oxidation. <i>Journal of Catalysis</i> , 2018, 368, 163-171.	6.2	47
27	The most active Cu facet for low-temperature water gas shift reaction. <i>Nature Communications</i> , 2017, 8, 488.	12.8	141
28	Morphology-dependent structures and catalytic performances of Au nanostructures on Cu ₂ O nanocrystals synthesized by galvanic replacement reaction. <i>Journal of Energy Chemistry</i> , 2016, 25, 1086-1091.	12.9	21
29	Au-Cu Alloy Formation on Cubic Cu ₂ O Nanocrystals at Ambient Temperature and Their Catalytic Performance. <i>ChemNanoMat</i> , 2016, 2, 861-865.	2.8	12
30	Compositions, Structures, and Catalytic Activities of CeO ₂ @Cu ₂ O Nanocomposites Prepared by the Template-Assisted Method. <i>Langmuir</i> , 2014, 30, 6427-6436.	3.5	101
31	Controllably Interfacing with Metal: A Strategy for Enhancing CO Oxidation on Oxide Catalysts by Surface Polarization. <i>Journal of the American Chemical Society</i> , 2014, 136, 14650-14653.	13.7	89
32	Applications of Chemical Kinetics in Heterogeneous Catalysis. , 0, , .		5