Chun-Jiang Jia

List of Publications by Year
in descending order

86 papers	7,514 citations	81900 39 h-index	53230 85 g-index
89 all docs	89 docs citations	89 times ranked	9516 citing authors

#	Article	IF	Citations
1	Design of N-Coordinated Dual-Metal Sites: A Stable and Active Pt-Free Catalyst for Acidic Oxygen Reduction Reaction. Journal of the American Chemical Society, 2017, 139, 17281-17284.	13.7	1,220
2	Single-Crystalline Iron Oxide Nanotubes. Angewandte Chemie - International Edition, 2005, 44, 4328-4333.	13.8	494
3	Large-Scale Synthesis of Single-Crystalline Iron Oxide Magnetic Nanorings. Journal of the American Chemical Society, 2008, 130, 16968-16977.	13.7	438
4	Enhanced Visible-Light Photocatalytic Activity of BiOI/BiOCl Heterojunctions: Key Role of Crystal Facet Combination. ACS Catalysis, 2015, 5, 3540-3551.	11.2	307
5	Crystal Plane Effect of Ceria on Supported Copper Oxide Cluster Catalyst for CO Oxidation: Importance of Metalâ€“Support Interaction. ACS Catalysis, 2017, 7, 1313-1329.	11.2	301
6	Highly Tunable Selectivity for Syngasâ€Derived Alkenes over Zinc and Sodiumâ€Modulated Fe₅C₂ Catalyst. Angewandte Chemie - International Edition, 2016, 55, 9902-9907.	13.8	296
7	Highly Dispersed Copper Oxide Clusters as Active Species in Copper-Ceria Catalyst for Preferential Oxidation of Carbon Monoxide. ACS Catalysis, 2015, 5, 2088-2099.	11.2	237
8	Enhanced visible-light photocatalytic activity of g-C3N4/Zn2GeO4 heterojunctions with effective interfaces based on band match. Nanoscale, 2014, 6, 2649.	5.6	227
9	Highly Ordered Mesoporous Cobalt-Containing Oxides: Structure, Catalytic Properties, and Active Sites in Oxidation of Carbon Monoxide. Journal of the American Chemical Society, 2015, 137, 11407-11418.	13.7	225
10	Co₃O₄â€“SiO₂ Nanocomposite: A Very Active Catalyst for CO Oxidation with Unusual Catalytic Behavior. Journal of the American Chemical Society, 2011, 133, 11279-11288.	13.7	189
11	Contributions of distinct gold species to catalytic reactivity for carbon monoxide oxidation. Nature Communications, 2016, 7, 13481.	12.8	158
12	ZnWO4/BiOI heterostructures with highly efficient visible light photocatalytic activity: the case of interface lattice and energy level match. Journal of Materials Chemistry A, 2013, 1, 3421.	10.3	153
13	Highly Active Iron Oxide Supported Gold Catalysts for CO Oxidation: How Small Must the Gold Nanoparticles Be?. Angewandte Chemie - International Edition, 2010, 49, 5771-5775.	13.8	147
14	Structural transformation induced improved luminescent properties for LaVO4:Eu nanocrystals. Applied Physics Letters, 2004, 84, 5305-5307.	3.3	142
15	Selective Synthesis of Monazite- and Zircon-type LaVO4Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 3284-3290.	2.6	139
16	Exploring the effects of nanocrystal facet orientations in g-C₃N₄/BiOCl heterostructures on photocatalytic performance. Nanoscale, 2015, 7, 18971-18983.	5.6	139
17	Direct Identification of Active Surface Species for the Waterâ€“Gas Shift Reaction on a Goldâ€“Ceria Catalyst. Journal of the American Chemical Society, 2019, 141, 4613-4623.	13.7	139
18	Very Low Temperature CO Oxidation over Colloidally Deposited Gold Nanoparticles on Mg(OH)₂ and MgO. Journal of the American Chemical Society, 2010, 132, 1520-1522.	13.7	136

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19	N-Coordinated Dual-Metal Single-Site Catalyst for Low-Temperature CO Oxidation. ACS Catalysis, 2020, 10, 2754-2761.	11.2	112
20	Solventâ€Controlled Phase Transition of a Co^{II}â€Organic Framework: From Achiral to Chiral and Two to Three Dimensions. Chemistry - A European Journal, 2017, 23, 7990-7996.	3.3	111
21	Iron Oxide Tube-in-Tube Nanostructures. Journal of Physical Chemistry C, 2007, 111, 13022-13027.	3.1	98
22	Construction of Active Site in a Sintered Copperâ€"Ceria Nanorod Catalyst. Journal of the American Chemical Society, 2019, 141, 17548-17557.	13.7	94
23	Partially sintered copperâ€'ceria as excellent catalyst for the high-temperature reverse water gas shift reaction. Nature Communications, 2022, 13, 867.	12.8	86
24	Ceria-supported ruthenium clusters transforming from isolated single atoms for hydrogen production via decomposition of ammonia. Applied Catalysis B: Environmental, 2020, 268, 118424.	20.2	83
25	Promoted Cu-Fe3O4 catalysts for low-temperature water gas shift reaction: Optimization of Cu content. Applied Catalysis B: Environmental, 2018, 226, 182-193.	20.2	70
26	Ordered mesoporous Cuâ€"Ceâ€"O catalysts for CO preferential oxidation in H2-rich gases: Influence of copper content and pretreatment conditions. Applied Catalysis B: Environmental, 2014, 152-153, 11-18.	20.2	68
27	Monazite and Zircon Type LaVO₄:Eu Nanocrystals â€" Synthesis, Luminescent Properties, and Spectroscopic Identification of the Eu³⁺ Sites. European Journal of Inorganic Chemistry, 2010, 2010, 2626-2635.	2.0	63
28	Transition metal nanoparticles dispersed in an alumina matrix as active and stable catalysts for CO_x-free hydrogen production from ammonia. Journal of Materials Chemistry A, 2015, 3, 17172-17180.	10.3	61
29	Construction of stabilized bulk-nano interfaces for highly promoted inverse CeO2/Cu catalyst. Nature Communications, 2019, 10, 3470.	12.8	59
30	Transition metal nanoparticles supported La-promoted MgO as catalysts for hydrogen production via catalytic decomposition of ammonia. Journal of Energy Chemistry, 2019, 38, 41-49.	12.9	53
31	Thermally Stable Hierarchical Nanostructures of Ultrathin MoS₂ Nanosheet-Coated CeO₂ Hollow Spheres as Catalyst for Ammonia Decomposition. Inorganic Chemistry, 2016, 55, 3992-3999.	4.0	52
32	Metal-organic-framework derived controllable synthesis of mesoporous copper-cerium oxide composite catalysts for the preferential oxidation of carbon monoxide. Fuel, 2018, 229, 217-226.	6.4	50
33	Uniform 2 nm gold nanoparticles supported on iron oxides as active catalysts for CO oxidation reaction: structureâ€"activity relationship. Nanoscale, 2015, 7, 4920-4928.	5.6	47
34	An environmentally friendly and productive process for bioethanol production from potato waste. Biotechnology for Biofuels, 2016, 9, 50.	6.2	46
35	Effect of strongly bound copper species in copperâ€"ceria catalyst for preferential oxidation of carbon monoxide. Applied Catalysis A: General, 2016, 518, 87-101.	4.3	44
36	Hydroxyl-rich ceriaÂhydrate nanoparticles enhancing the alcohol electrooxidation performance of Pt catalysts. Journal of Materials Chemistry A, 2018, 6, 2318-2326.	10.3	43

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37	Boosting Cu-Ce interaction in CuxO/CeO2 nanocube catalysts for enhanced catalytic performance of preferential oxidation of CO in H2-rich gases. Molecular Catalysis, 2017, 436, 90-99.	2.0	42
38	Co3O4-Al2O3 mesoporous hollow spheres as efficient catalyst for Fischer-Tropsch synthesis. Applied Catalysis B: Environmental, 2017, 211, 176-187.	20.2	41
39	Intrinsically Active Surface in a Pt/Î³-Mo₂N Catalyst for the Waterâ€"Gas Shift Reaction: Molybdenum Nitride or Molybdenum Oxide?. Journal of the American Chemical Society, 2020, 142, 13362-13371.	13.7	41
40	Insights into facet-dependent reactivity of CuOâ€"CeO2 nanocubes and nanorods as catalysts for CO oxidation reaction. Chinese Journal of Catalysis, 2020, 41, 1017-1027.	14.0	41
41	Au/TiO₂ Catalysts for CO Oxidation: Effect of Gold State to Reactivity. Journal of Physical Chemistry C, 2018, 122, 4928-4936.	3.1	40
42	Promoted Multimetal Oxide Catalysts for the Generation of Hydrogen via Ammonia Decomposition. Journal of Physical Chemistry C, 2016, 120, 7685-7696.	3.1	39
43	Copper-ceria sheets catalysts: Effect of copper species on catalytic activity in CO oxidation reaction. Journal of Rare Earths, 2017, 35, 1186-1196.	4.8	38
44	Pt-embedded-CeO₂hollow spheres for enhancing CO oxidation performance. Materials Chemistry Frontiers, 2017, 1, 1754-1763.	5.9	36
45	Highly Tunable Selectivity for Syngasâ€Derived Alkenes over Zinc and Sodiumâ€Modulated Fe₅C₂ Catalyst. Angewandte Chemie, 2016, 128, 10056-10061.	2.0	34
46	Structural Determination of Catalytically Active Subnanometer Iron Oxide Clusters. ACS Catalysis, 2016, 6, 3072-3082.	11.2	33
47	Highly Efficient CuO/Î±-MnO₂ Catalyst for Low-Temperature CO Oxidation. Langmuir, 2020, 36, 11196-11206.	3.5	33
48	Component synergy and armor protection induced superior catalytic activity and stability of ultrathin Co-Fe spinel nanosheets confined in mesoporous silica shells for ammonia decomposition reaction. Applied Catalysis B: Environmental, 2019, 253, 121-130.	20.2	32
49	Unique structure of active platinum-bismuth site for oxidation of carbon monoxide. Nature Communications, 2021, 12, 3342.	12.8	32
50	Spatial confinement and electron transfer moderating Mo N bond strength for superior ammonia decomposition catalysis. Applied Catalysis B: Environmental, 2021, 294, 120254.	20.2	31
51	<i>In Situ</i> X-ray Diffraction Study of Coâ€"Al Nanocomposites as Catalysts for Ammonia Decomposition. Journal of Physical Chemistry C, 2015, 119, 17102-17110.	3.1	29
52	Pt-Embedded CuO_{<i>x</i>}â€"CeO₂ Multicoreâ€"Shell Composites: Interfacial Redox Reaction-Directed Synthesis and Composition-Dependent Performance for CO Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 34172-34183.	8.0	29
53	Hydrogen production via catalytic decomposition of NH3 using promoted MgO-supported ruthenium catalysts. Science China Chemistry, 2019, 62, 1625-1633.	8.2	29
54	Effect of Structural Evolution of Gold Species Supported on Ceria in Catalyzing CO Oxidation. Journal of Physical Chemistry C, 2019, 123, 9001-9012.	3.1	28

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55	Promoted porous Co3O4-Al2O3 catalysts for ammonia decomposition. Science China Chemistry, 2018, 61, 1389-1398.	8.2	26
56	Fe- and Co-doped lanthanum oxides catalysts for ammonia decomposition: Structure and catalytic performances. Journal of Rare Earths, 2017, 35, 15-23.	4.8	25
57	Catalytically efficient Ni-NiOx-Y2O3 interface for medium temperature water-gas shift reaction. Nature Communications, 2022, 13, 2443.	12.8	25
58	Use of fusion transcription factors to reprogram cellulase transcription and enable efficient cellulase production in Trichoderma reesei. Biotechnology for Biofuels, 2019, 12, 244.	6.2	24
59	Catalytically active ceria-supported cobaltâ€“manganese oxide nanocatalysts for oxidation of carbon monoxide. Physical Chemistry Chemical Physics, 2017, 19, 14533-14542.	2.8	23
60	The effect of reactants adsorption and products desorption for Au/TiO2 in catalyzing CO oxidation. Journal of Catalysis, 2019, 376, 134-145.	6.2	22
61	Coâ€SiO₂ Nanocomposite Catalysts for CO_{<i>x</i>}â€Free Hydrogen Production by Ammonia Decomposition. ChemPlusChem, 2017, 82, 368-375.	2.8	20
62	Facile fabrication of p-BiOI/n-Zn2SnO4 heterostructures with highly enhanced visible light photocatalytic performances. Materials Research Bulletin, 2014, 55, 196-204.	5.2	19
63	Iron-based composite nanostructure catalysts used to produce CO -free hydrogen from ammonia. Science Bulletin, 2016, 61, 220-226.	9.0	19
64	Effects of Multiple Platinum Species on Catalytic Reactivity Distinguished by Electron Microscopy and X-ray Absorption Spectroscopy Techniques. Journal of Physical Chemistry C, 2017, 121, 25805-25817.	3.1	19
65	Synthesis and metalâ€“support interaction of subnanometer copperâ€“palladium bimetallic oxide clusters for catalytic oxidation of carbon monoxide. Inorganic Chemistry Frontiers, 2017, 4, 668-674.	6.0	18
66	CO2 methanation catalyzed by a Fe-Co/Al2O3 catalyst. Journal of Environmental Chemical Engineering, 2021, 9, 105594.	6.7	18
67	Very high loading oxidized copper supported on ceria to catalyze the water-gas shift reaction. Journal of Catalysis, 2021, 402, 83-93.	6.2	18
68	Heterostructured Ceriaâ€“Titania-Supported Platinum Catalysts for the Water Gas Shift Reaction. ACS Applied Materials & Interfaces, 2022, 14, 8575-8586.	8.0	18
69	Thermally stable and highly active Pt/CeO₂@SiO₂ catalysts with a porous/hollow structure. Catalysis Science and Technology, 2018, 8, 4413-4419.	4.1	15
70	<i>In Situ</i> Generation of the Surface Oxygen Vacancies in a Copperâ€“Ceria Catalyst for the Waterâ€“Gas Shift Reaction. Langmuir, 2021, 37, 10499-10509.	3.5	15
71	Facile Synthesis of Stable MO₂N Nanobelts with High Catalytic Activity for Ammonia Decomposition. Chinese Journal of Chemistry, 2019, 37, 364-372.	4.9	14
72	CeO₂@SiO₂ Coreâ€“Shell Nanostructure-Supported CuO as High-Temperature-Tolerant Catalysts for CO Oxidation. Langmuir, 2019, 35, 8658-8666.	3.5	13

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73	Synthesis of a ceria-supported ironâ€“ruthenium oxide catalyst and its structural transformation from subnanometer clusters to single atoms during the Fischerâ€“Tropsch synthesis reaction. Inorganic Chemistry Frontiers, 2017, 4, 2059-2067.	6.0	11
74	Nanoceria Supported Gold Catalysts for CO Oxidation. Chinese Journal of Chemistry, 2018, 36, 639-643.	4.9	11
75	Gold-Iron Oxide Catalyst for CO Oxidation: Effect of Support Structure. Catalysts, 2016, 6, 37.	3.5	10
76	The Effect of Hydrogenated TiO₂ to the Au/TiO₂ Catalyst in Catalyzing CO Oxidation. Langmuir, 2021, 37, 3270-3280.	3.5	9
77	Effects of Hydrogen and Hydrothermal Pretreatments on a Silica-Supported Copper Catalyst for CO Oxidation: Copper Hydroxy Active Species. Journal of Physical Chemistry C, 2020, 124, 25270-25281.	3.1	9
78	Effect of reductionâ€“oxidation treatment on structure and catalytic properties of ordered mesoporous Cuâ€“Mgâ€“Al composite oxides. Science Bulletin, 2015, 60, 1108-1113.	9.0	8
79	CO oxidation over Au/ZrLa-doped CeO 2 catalysts: Synergistic effect of zirconium and lanthanum. Chinese Journal of Catalysis, 2016, 37, 1331-1339.	14.0	8
80	Small-sized cuprous oxide species on silica boost acrolein formation via selective oxidation of propylene. Chinese Journal of Catalysis, 2021, 42, 310-319.	14.0	7
81	<scp>Co_{<i>a</i>}Sm_{<i>b</i>}O_{<i>x</i>}</scp> Catalyst with Excellent Catalytic Performance for <scp>NH₃</scp> Decomposition. Chinese Journal of Chemistry, 2021, 39, 2359-2366.	4.9	6
82	Effect of Nickel Oxide Doping to Ceria-Supported Gold Catalyst for CO Oxidation and Water-Gas Shift Reactions. Catalysts, 2018, 8, 584.	3.5	5
83	Au/La-CeO catalyst for CO oxidation: Effect of different atmospheres pretreatment on gold state â€• Commemorating the 100th anniversary of the birth of Academician Guangxian Xu. Journal of Rare Earths, 2021, 39, 364-373.	4.8	5
84	Facile Fabrication of CeO₂-Al₂O₃ Hollow Sphere with Atomically Dispersed Fe via Spray Pyrolysis. Inorganic Chemistry, 2021, 60, 5183-5189.	4.0	4
85	Support effect of zinc tin oxide on gold catalyst for CO oxidation reaction. Chinese Journal of Catalysis, 2016, 37, 1702-1711.	14.0	1
86	Magnetic Frustration in a Zeolite. Chemistry of Materials, 2021, 33, 9725-9731.	6.7	1