

Xiaohao Liu

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64
papers

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71
ext. papers

2,627
ext. citations

7.2
avg, IF

5.38
L-index

#	Paper	IF	Citations
64	Turning Au Nanoclusters Catalytically Active for Visible-Light-Driven CO Reduction through Bridging Ligands. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16514-16520	16.4	134
63	Oxygen Vacancy-Rich In-Doped CoO/CoP Heterostructure as an Effective Air Cathode for Rechargeable Zn-Air Batteries. <i>Small</i> , 2019 , 15, e1904210	11	102
62	Insights into the Influence of CeO ₂ Crystal Facet on CO ₂ Hydrogenation to Methanol over Pd/CeO ₂ Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 11493-11509	13.1	87
61	Insights into the influence of support and potassium or sulfur promoter on iron-based Fischer-Tropsch synthesis: understanding the control of catalytic activity, selectivity to lower olefins, and catalyst deactivation. <i>Catalysis Science and Technology</i> , 2017 , 7, 1245-1265	5.5	72
60	Interfacial Effects of CeO ₂ -Supported Pd Nanorod in Catalytic CO Oxidation: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12923-12934	3.8	71
59	Hydrogenation of CO ₂ into hydrocarbons: enhanced catalytic activity over Fe-based Fischer-Tropsch catalysts. <i>Catalysis Science and Technology</i> , 2018 , 8, 4097-4107	5.5	70
58	Synthesis of {111} Facet-Exposed MgO with Surface Oxygen Vacancies for Reactive Oxygen Species Generation in the Dark. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12687-12693	9.5	69
57	Selective production of aromatics from CO ₂ . <i>Catalysis Science and Technology</i> , 2019 , 9, 593-610	5.5	69
56	Unravelling the New Roles of Na and Mn Promoter in CO ₂ Hydrogenation over Fe ₃ O ₄ -Based Catalysts for Enhanced Selectivity to Light Olefins. <i>ChemCatChem</i> , 2018 , 10, 4718-4732	5.2	65
55	Mechanistic Study of Selective Catalytic Reduction of NO with NH ₃ on W-Doped CeO ₂ Catalysts: Unraveling the Catalytic Cycle and the Role of Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2271-2283	3.8	63
54	Synthesis of higher alcohols by Fischer-Tropsch synthesis over alkali metal-modified cobalt catalysts. <i>Applied Catalysis A: General</i> , 2013 , 458, 145-154	5.1	63
53	Iron-Based Fischer-Tropsch Synthesis for the Efficient Conversion of Carbon Dioxide into Isoparaffins. <i>ChemCatChem</i> , 2016 , 8, 1303-1307	5.2	58
52	Conversion of syngas toward aromatics over hybrid Fe-based Fischer-Tropsch catalysts and HZSM-5 zeolites. <i>Applied Catalysis A: General</i> , 2018 , 552, 168-183	5.1	56
51	Particle size effects in the selective hydrogenation of cinnamaldehyde over supported palladium catalysts. <i>RSC Advances</i> , 2016 , 6, 75541-75551	3.7	50
50	Hydroformylation of olefins by Au/Co ₃ O ₄ catalysts. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 411-421	11.8	49
49	Two-dimensional graphene-directed formation of cylindrical iron carbide nanocapsules for Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2017 , 7, 4609-4621	5.5	47
48	Investigation of the highly tunable selectivity to linear olefins in Fischer-Tropsch synthesis over silica-supported Co and CoMn catalysts by carburization-reduction pretreatment. <i>Catalysis Science and Technology</i> , 2017 , 7, 4736-4755	5.5	41

47	Exploring pretreatment effects in Co/SiO ₂ Fischer-Tropsch catalysts: Different oxidizing gases applied to oxidation-reduction process. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 1-13	21.8	39
46	Effects of solvent on Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2006 , 303, 251-257	5.1	36
45	Computational Design of a CeO ₂ -Supported Pd-Based Bimetallic Nanorod for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5557-5564	3.8	35
44	Insight into the Intrinsic Active Site for Selective Production of Light Olefins in Cobalt-Catalyzed Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2019 , 9, 7073-7089	13.1	34
43	Carbonate-mediated Mars-van Krevelen mechanism for CO oxidation on cobalt-doped ceria catalysts: facet-dependence and coordination-dependence. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16045-16059	3.6	33
42	Supported Fe/MnO _x catalyst with Ag doping for remarkably enhanced catalytic activity in Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2018 , 8, 1953-1970	5.5	31
41	CO ₂ formation mechanism in Fischer-Tropsch synthesis over iron-based catalysts: a combined experimental and theoretical study. <i>Catalysis Science and Technology</i> , 2018 , 8, 5288-5301	5.5	31
40	Supercritical phase process for direct synthesis of middle iso-paraffins from modified Fischer-Tropsch reaction. <i>Catalysis Today</i> , 2005 , 106, 154-160	5.3	30
39	Highly active Co/SiC catalysts with controllable dispersion and reducibility for Fischer-Tropsch synthesis. <i>Fuel</i> , 2013 , 112, 483-488	7.1	28
38	Solvent-free rapid synthesis of porous CeWO _x by a mechanochemical self-assembly strategy for the abatement of NO _x . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6717-6731	13	27
37	Particle-Size-Dependent Methane Selectivity Evolution in Cobalt-Based Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2020 , 10, 2799-2816	13.1	27
36	Direct production of aromatics from syngas over a hybrid FeMn Fischer-Tropsch catalyst and HZSM-5 zeolite: local environment effect and mechanism-directed tuning of the aromatic selectivity. <i>Catalysis Science and Technology</i> , 2019 , 9, 3933-3946	5.5	25
35	Probing cobalt localization on HZSM-5 for efficient methane dehydroaromatization catalysts. <i>Journal of Catalysis</i> , 2020 , 387, 102-118	7.3	25
34	Anti-ASF distribution in Fischer-Tropsch synthesis over unsupported cobalt catalysts in a batch slurry phase reactor. <i>Catalysis Today</i> , 2011 , 175, 494-503	5.3	25
33	Assessing the formation of cobalt carbide and its catalytic performance under realistic reaction conditions and tuning product selectivity in a cobalt-based FTS reaction. <i>Catalysis Science and Technology</i> , 2019 , 9, 3238-3258	5.5	24
32	CeO ₂ supported Pd dimers boosting CO ₂ hydrogenation to ethanol. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120122	21.8	21
31	CH conversion over Ni/HZSM-5 catalyst in the absence of oxygen: decomposition or dehydroaromatization?. <i>Chemical Communications</i> , 2020 , 56, 4396-4399	5.8	20
30	Controllable Fischer-Tropsch Synthesis by In Situ-Produced 1-Olefins. <i>ChemCatChem</i> , 2010 , 2, 1569-1572	5.2	19

29	Effective control of carbon number distribution during Fischer-Tropsch synthesis over supported cobalt catalyst. <i>Catalysis Communications</i> , 2007 , 8, 1329-1335	3.2	19
28	Elucidation of reaction network and effective control of carbon number distribution in the three phase Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2007 , 333, 211-218	5.1	18
27	Investigation of the deactivation behavior of Co catalysts in Fischer-Tropsch synthesis using encapsulated Co nanoparticles with controlled SiO ₂ shell layer thickness. <i>Catalysis Science and Technology</i> , 2020 , 10, 1182-1192	5.5	17
26	Hydrogenation of CO ₂ to methanol over Cu/ZnCr catalyst. <i>Fuel</i> , 2019 , 256, 115975	7.1	16
25	Selective Synthesis of Higher Linear Olefins over Cobalt Fischer-Tropsch Catalyst. <i>Catalysis Letters</i> , 2006 , 108, 11-13	2.8	15
24	Unraveling Reactivity Descriptors and Structure Sensitivity in Low-Temperature NH ₃ -SCR Reaction over CeTiO _x Catalysts: A Combined Computational and Experimental Study. <i>ACS Catalysis</i> , 2021 , 11, 7613-7636 ¹⁵	13.1	15
23	Selective mild oxidation of methane to methanol or formic acid on Fe/MOR catalysts. <i>Catalysis Science and Technology</i> , 2019 , 9, 6946-6956	5.5	14
22	Experimental Investigation on the Two-Sided Effect of Acidic HZSM-5 on the Catalytic Performance of Composite Fe-Based Fischer-Tropsch Catalysts and HZSM-5 Zeolite in the Production of Aromatics from CO ₂ /H ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8581-8591	3.9	13
21	Investigation on converting 1-butene and ethylene into propene metathesis reaction over W-based catalysts.. <i>RSC Advances</i> , 2018 , 8, 8372-8384	3.7	12
20	Sodium-Mediated Bimetallic Fe/Ni Catalyst Boosts Stable and Selective Production of Light Aromatics over HZSM-5 Zeolite. <i>ACS Catalysis</i> , 2021 , 11, 3553-3574	13.1	12
19	Distinguishing external and internal coke depositions on micron-sized HZSM-5 via catalyst-assisted temperature-programmed oxidation. <i>New Journal of Chemistry</i> , 2019 , 43, 13938-13946	3.6	10
18	Insight into the Potassium Poisoning Effect for Selective Catalytic Reduction of NO _x with NH ₃ over Fe/Beta. <i>ACS Catalysis</i> , 14727-14739	13.1	10
17	Insight into the active site and reaction mechanism for selective oxidation of methane to methanol using H ₂ O ₂ on a Rh1/ZrO ₂ catalyst. <i>New Journal of Chemistry</i> , 2020 , 44, 1632-1639	3.6	10
16	A Facile Fabrication of Supported Ni/SiO ₂ Catalysts for Dry Reforming of Methane with Remarkably Enhanced Catalytic Performance. <i>Catalysts</i> , 2019 , 9, 183	4	9
15	Effect of Bed Height on the Performance of a Fixed Mo/HZSM-5 Bed in Direct Aromatization of Methane. <i>Chemical Engineering and Technology</i> , 2016 , 39, 2059-2065	2	7
14	Glutathione-protected gold nanocluster decorated cadmium sulfide with enhanced photostability and photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 120-126	9.3	7
13	Gold nanoparticles assisted formation of cobalt species for intermolecular hydroaminomethylation and intramolecular cyclocarbonylation of olefins. <i>Catalysis Science and Technology</i> , 2013 , 3, 3000	5.5	7
12	Unravelling the structure-performance relationship over iron-based Fischer-Tropsch synthesis by depositing the iron carbonyl in syngas on SiO ₂ in a fixed-bed reactor. <i>Applied Catalysis A: General</i> , 2019 , 572, 197-209	5.1	7

11	Fischer-Tropsch synthesis to lower β -olefins over cobalt-based catalysts: Dependence of the promotional effect of promoter on supports. <i>Catalysis Today</i> , 2021 , 369, 158-166	5.3	6
10	Coupling the Atomically Dispersed Fe-N ₃ Sites with Sub-5 nm Pd Nanocrystals Confined in N-Doped Carbon Nanobelts to Boost the Oxygen Reduction for Microbial Fuel Cells. <i>Advanced Functional Materials</i> , 2107683	15.6	5
9	Suppressing C-C Bond Dissociation for Efficient Ethane Dehydrogenation over the Isolated Co(II) Sites in SAPO-34. <i>ACS Catalysis</i> , 13001-13019	13.1	5
8	Identifying the crucial role of water and chloride for efficient mild oxidation of methane to methanol over a [Cu ₂ (EO)] ²⁺ -ZSM-5 catalyst. <i>Journal of Catalysis</i> , 2021 , 405, 1-1	7.3	4
7	Dependence of copper particle size and interface on methanol and CO formation in CO ₂ hydrogenation over Cu@ZnO catalysts. <i>Catalysis Science and Technology</i> , 2022 , 12, 551-564	5.5	3
6	A high growth rate process of ALD CeO _x with amidinato-cerium [(N-iPr-AMD) ₃ Ce] and O ₃ as precursors. <i>Journal of Materials Science</i> , 2020 , 55, 5378-5389	4.3	2
5	Remarkably enhanced performance of the metathesis reaction of ethylene and 1-butene to propene using one-step prepared W-MCM-41 catalysts.. <i>RSC Advances</i> , 2019 , 9, 40618-40627	3.7	2
4	Insights into Fe species structure-performance relationship for direct methane conversion toward oxygenates over Fe-MOR catalysts. <i>ChemCatChem</i> ,	5.2	2
3	Structural evolution of large Fe ₃ O ₄ microspheres on graphene oxide for efficient conversion of syngas into β -olefins. <i>New Journal of Chemistry</i> , 2020 , 44, 4987-4991	3.6	1
2	Effect of potassium on GO-modified large Fe ₃ O ₄ microspheres for the production of β -olefins. <i>Journal of Fuel Chemistry and Technology</i> , 2021 , 49, 933-944	1.8	1
1	Tuning the Lewis acidity of ZrO ₂ for efficient conversion of CH ₄ and CO ₂ into acetic acid. <i>New Journal of Chemistry</i> , 2021 , 45, 8978-8985	3.6	1