

Yizhi Xiang

List of Publications by Year in descending order

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44
papers

1,463
citations

361413

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h-index

330143

37
g-index

45
all docs

45
docs citations

45
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Chain Terminal Alcohols through Catalytic CO Hydrogenation. <i>Journal of the American Chemical Society</i> , 2013, 135, 7114-7117.	13.7	169
2	Tuning the catalytic CO hydrogenation to straight- and long-chain aldehydes/alcohols and olefins/paraffins. <i>Nature Communications</i> , 2016, 7, 13058.	12.8	132
3	Higher Alcohols through CO Hydrogenation over CoCu Catalysts: Influence of Precursor Activation. <i>ACS Catalysis</i> , 2014, 4, 2792-2800.	11.2	114
4	Progress and prospects in catalytic ethane aromatization. <i>Catalysis Science and Technology</i> , 2018, 8, 1500-1516.	4.1	93
5	Aqueous system for the improved hydrogenation of phenol and its derivatives. <i>Green Chemistry</i> , 2008, 10, 939.	9.0	80
6	Ternary Cobalt-Copper-Niobium Catalysts for the Selective CO Hydrogenation to Higher Alcohols. <i>ACS Catalysis</i> , 2015, 5, 2929-2934.	11.2	64
7	Carbon Nanotubes and Activated Carbons Supported Catalysts for Phenol in Situ Hydrogenation: Hydrophobic/Hydrophilic Effect. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2197-2203.	3.7	58
8	Water-improved heterogeneous transfer hydrogenation using methanol as hydrogen donor over Pd-based catalyst. <i>Applied Catalysis A: General</i> , 2010, 375, 289-294.	4.3	55
9	Tailoring supported palladium sulfide catalysts through H ₂ -assisted sulfidation with H ₂ S. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12811.	10.3	55
10	In situ hydrogen from aqueous-methanol for nitroarene reduction and imine formation over an Au-Pd/Al ₂ O ₃ catalyst. <i>Chemical Communications</i> , 2010, 46, 5918.	4.1	48
11	One-pot synthesis of N,N-dimethylaniline from nitrobenzene and methanol. <i>New Journal of Chemistry</i> , 2009, 33, 2051.	2.8	40
12	Size-Dependent Activity and Selectivity of Fe/MCF-17 in the Catalytic Hydrogenation of Carbon Monoxide Using Fe(0) Nanoparticles as Precursors. <i>ACS Catalysis</i> , 2016, 6, 2496-2500.	11.2	38
13	Selectivity tailoring of Pd/CNTs in phenol hydrogenation by surface modification: Role of CO oxygen species. <i>Applied Surface Science</i> , 2015, 324, 634-639.	6.1	35
14	Reaction Performance of Hydrogen from Aqueous-Phase Reforming of Methanol or Ethanol in Hydrogenation of Phenol. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3139-3144.	3.7	32
15	CO-induced inversion of the layer sequence of a model CoCu catalyst. <i>Surface Science</i> , 2016, 648, 74-83.	1.9	30
16	Ethane Aromatization over Zn-HZSM-5: Early-Stage Acidity/Performance Relationships and Deactivation Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17699-17708.	3.7	28
17	Rate and selectivity hysteresis during the carbon monoxide hydrogenation over promoted Co/MnOx catalysts. <i>Nature Communications</i> , 2019, 10, 3953.	12.8	27
18	Selective Catalytic CO Hydrogenation to Short- and Long-Chain C ₂ + Alcohols. <i>Catalysis Letters</i> , 2013, 143, 936-941.	2.6	25

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19	Catalytic hydrogenation of sulfur-containing nitrobenzene over Pd/C catalysts: In situ sulfidation of Pd/C for the preparation of Pd _x S _y catalysts. <i>Applied Catalysis A: General</i> , 2015, 497, 17-21.	4.3	24
20	Sulfur-doped porous carbon supported palladium catalyst for high selective o-chloro-nitrobenzene hydrogenation. <i>Applied Catalysis A: General</i> , 2019, 581, 74-81.	4.3	23
21	Ultralow-Loading Pt/Zn Hybrid Cluster in Zeolite HZSM-5 for Efficient Dehydroaromatization. <i>Journal of the American Chemical Society</i> , 2022, 144, 11831-11839.	13.7	22
22	Nickel/gallium modified HZSM-5 for ethane aromatization: Influence of metal function on reactivity and stability. <i>Applied Catalysis A: General</i> , 2020, 601, 117629.	4.3	21
23	In Situ Hydrogen Peroxide Production for Selective Oxidation of Benzyl Alcohol over a Pd@Hierarchical Titanium Silicalite Catalyst. <i>ACS Omega</i> , 2020, 5, 16865-16874.	3.5	21
24	Cobalt-copper based catalysts for higher terminal alcohols synthesis via Fischer-Tropsch reaction. <i>Journal of Energy Chemistry</i> , 2016, 25, 895-906.	12.9	19
25	A novel liquid system of catalytic hydrogenation. <i>Science in China Series B: Chemistry</i> , 2007, 50, 746-753.	0.8	16
26	Selectivity difference between hydrogenation of acetophenone over CNTs and ACs supported Pd catalysts. <i>Journal of Molecular Catalysis A</i> , 2011, 351, 70-75.	4.8	16
27	Efficient selective hydrogenation of cinnamaldehyde over zeolite supported cobalt catalysts in water. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 115, 283-292.	1.7	15
28	Amoxidation of Ethane to Acetonitrile and Ethylene: Reaction Transient Analysis for the Co/HZSM-5 Catalyst. <i>ACS Omega</i> , 2020, 5, 1669-1678.	3.5	15
29	Modulation of bonding between noble metal monomers and CNTs by B-, N-doping. <i>Computational Materials Science</i> , 2010, 48, 621-625.	3.0	14
30	Tuning the reactivity of ethylene oligomerization by HZSM-5 framework Al ^f proximity. <i>Catalysis Science and Technology</i> , 2020, 10, 4019-4029.	4.1	14
31	Transient Kinetic Study of Ethane and Ethylene Aromatization over Zinc-Exchanged HZSM-5 Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	3.7	13
32	One pot synthesis of N-ethylaniline from nitrobenzene and ethanol. <i>Science in China Series B: Chemistry</i> , 2008, 51, 248-256.	0.8	12
33	Lanthanum-promoted Pd/Al ₂ O ₃ catalysts for liquid phase in situ hydrogenation of phenol to cyclohexanone. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010, 100, 227.	1.7	12
34	Highly selective Sn/HZSM-5 catalyst for ethane ammoxidation to acetonitrile and ethylene. <i>Applied Catalysis A: General</i> , 2021, 610, 117942.	4.3	12
35	A resource recycling technique of hydrogen production from the catalytic degradation of organics in wastewater. <i>Science in China Series B: Chemistry</i> , 2008, 51, 1118-1126.	0.8	11
36	Influence of Chemical Composition on the Catalytic Activity of Small Bimetallic FeRu Nanoparticles for Fischer-Tropsch Syntheses. <i>Catalysis Letters</i> , 2015, 145, 373-379.	2.6	11

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37	Characterization of CoCu- and CoMn-Based Catalysts for the Fischer-Tropsch Reaction Toward Chain-Lengthened Oxygenates. <i>Topics in Catalysis</i> , 2018, 61, 1016-1023.	2.8	10
38	Mechanism and Kinetics of Ethane Aromatization According to the Chemical Transient Analysis. <i>Topics in Catalysis</i> , 2020, 63, 1463-1473.	2.8	10
39	Highly efficient hydrogen peroxide direct synthesis over a hierarchical TS-1 encapsulated subnano Pd/PdO hybrid. <i>RSC Advances</i> , 2019, 9, 13398-13402.	3.6	9
40	Catalytic Light Alkanes Conversion through Anaerobic Ammodehydrogenation. <i>ACS Catalysis</i> , 2021, 11, 7987-7995.	11.2	8
41	Ammonia-Assisted Light Alkane Anti-coke Reforming on Isolated ReO_x Sites in Zeolite. <i>ACS Catalysis</i> , 2022, 12, 3165-3172.	11.2	6
42	Acetonitrile formation from ethane or ethylene through anaerobic ammodehydrogenation. <i>Catalysis Today</i> , 2023, 416, 113751.	4.4	5
43	Terminal Amines, Nitriles, and Olefins through Catalytic CO Hydrogenation in the Presence of Ammonia. <i>ACS Catalysis</i> , 0, , 14977-14985.	11.2	1
44	Cu-Pd/ γ -Al ₂ O ₃ catalyzed one-pot synthesis of 2-methylquinoline from nitrobenzene and ethanol. <i>Scientia Sinica Chimica</i> , 2011, 41, 914-924.	0.4	0