

Zi Gao

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75
papers

1,716
citations

22
h-index

39
g-index

80
ext. papers

1,887
ext. citations

4.4
avg, IF

4.4
L-index

#	Paper	IF	Citations
75	Hollow Zeolite Capsules: A Novel Approach for Fabrication and Guest Encapsulation. <i>Chemistry of Materials</i> , 2002 , 14, 3217-3219	9.6	136
74	Synthesis of mesoporous TiO ₂ with a crystalline framework. <i>Chemical Communications</i> , 2000 , 1755-1756	5.8	109
73	The synthesis of durable B γ -ZSM-5 catalysts with tunable acidity for methanol to propylene reaction. <i>Catalysis Communications</i> , 2012 , 24, 44-47	3.2	99
72	Zeolitization of diatomite to prepare hierarchical porous zeolite materials through a vapor-phase transport process. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1812-1818		98
71	Regular HZSM-5 microboxes prepared via a mild alkaline treatment. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3496		91
70	New catalyst of SO ₂ /Al ₂ O ₃ /CrO ₂ for n-butane isomerization. <i>Topics in Catalysis</i> , 1998 , 6, 101-106	2.3	87
69	Chromium Oxide Supported on Mesoporous SBA-15 as Propane Dehydrogenation and Oxidative Dehydrogenation Catalysts. <i>Catalysis Letters</i> , 2002 , 83, 19-25	2.8	80
68	Nanoparticulate Pt on mesoporous SBA-15 doped with extremely low amount of W as a highly selective catalyst for glycerol hydrogenolysis to 1,3-propanediol. <i>Green Chemistry</i> , 2017 , 19, 2174-2183	10	56
67	Chemical Liquid Deposition Zeolites with Controlled Pore-Opening Size and Shape-Selective Separation of Isomers. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 430-433	3.9	55
66	Oxidative dehydrogenation of ethane with CO ₂ over Cr supported on submicron ZSM-5 zeolite. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1242-1248	11.3	49
65	Novel Fe-based complex oxide catalysts for hydroxylation of phenol. <i>Catalysis Letters</i> , 2000 , 69, 231-236	2.8	47
64	Mesoporous microcapsules with noble metal or noble metal oxide shells and their application in electrocatalysis. <i>Journal of Materials Chemistry</i> , 2004 , 14, 3548		45
63	Studies on SO ₂ promoted mixed oxide superacids. <i>Catalysis Letters</i> , 1996 , 37, 187-191	2.8	44
62	Ceria-Zirconia/Zeolite Bifunctional Catalyst for Highly Selective Conversion of Syngas into Aromatics. <i>ChemCatChem</i> , 2018 , 10, 4519-4524	5.2	42
61	Catalytic decomposition of N ₂ O over Fe-ZSM-11 catalysts prepared by different methods: Nature of active Fe species. <i>Journal of Catalysis</i> , 2015 , 330, 311-322	7.3	41
60	Enhanced Stability of HZSM-5 Supported Ga ₂ O ₃ Catalyst in Propane Dehydrogenation by Dealumination. <i>Catalysis Letters</i> , 2007 , 119, 283-288	2.8	40
59	Preparation of MgO Nanosheets with Polar (111) Surfaces by Ligand Exchange and Esterification Synthesis, Structure, and Application as Catalyst Support. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2869-2876	2.3	31

58	Effect of modifiers on the activity of a Cr ₂ O ₃ /Al ₂ O ₃ catalyst in the dehydrogenation of ethylbenzene with CO ₂ . <i>Green Chemistry</i> , 2005 , 7, 524	10	29
57	Preparation of Secondary Mesopores in Mesoporous Anatase/Silica Nanocomposites with Unprecedented-High Photocatalytic Degradation Performances. <i>Advanced Functional Materials</i> , 2016 , 26, 964-976	15.6	29
56	Nonclassical from-shell-to-core growth of hierarchically organized SAPO-11 with enhanced catalytic performance in hydroisomerization of n-heptane. <i>RSC Advances</i> , 2016 , 6, 32523-32533	3.7	29
55	Catalytic decomposition of N ₂ O over Cu-ZSM-11 catalysts. <i>Microporous and Mesoporous Materials</i> , 2014 , 191, 112-117	5.3	28
54	Effect of Lanthanum Promotion on the Unsupported Mo ₂ C/Sulfide Catalysts for Synthesis of Mixed Alcohols from Syngas. <i>Catalysis Letters</i> , 2009 , 127, 448-455	2.8	25
53	Direct conversion of bio-ethanol to propylene in high yield over the composite of In ₂ O ₃ and zeolite beta. <i>Green Chemistry</i> , 2017 , 19, 5582-5590	10	21
52	Single-Site CrO _x Moieties on Silicalite: Highly Active and Stable for Ethane Dehydrogenation with CO ₂ . <i>Catalysis Letters</i> , 2018 , 148, 1375-1382	2.8	19
51	Oxidative Dehydrogenation of Ethane with CO ₂ over Au/CeO ₂ Nanorod Catalysts. <i>Catalysis Letters</i> , 2018 , 148, 1634-1642	2.8	16
50	Enhanced ionic conductivity of poly(ethylene oxide) (PEO) electrolyte by adding mesoporous molecular sieve LiAlSBA. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 609-615	2.6	16
49	Dehydrogenation of Isobutane with Carbon Dioxide over SBA-15-Supported Vanadium Oxide Catalysts. <i>Catalysts</i> , 2016 , 6, 171	4	15
48	Studies on the Colloidization and Stability of Layered M(IV) Phosphates in Aqueous Amine Solutions. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1997 , 27, 303-317		14
47	Mesoporous Alumina Molecular Sieves: Characterization and Catalytic Activity in Hydrolysis of Carbon Disulfide. <i>Catalysis Letters</i> , 2003 , 89, 41-47	2.8	14
46	Fabrication of zeolite coatings on stainless steel grids. <i>Journal of Materials Science Letters</i> , 2001 , 20, 2091-2094		14
45	Catalytic decomposition of N ₂ O over Rh/ZnO/Al ₂ O ₃ catalysts. <i>RSC Advances</i> , 2017 , 7, 4243-4252	3.7	13
44	Dehydrogenation of Isobutane to Isobutene with Carbon Dioxide over SBA-15-Supported Chromia-Ceria Catalysts. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 1619-1626	4.9	13
43	Studies on the Formation and Characteristics of Two Types of p-Xylene/Silicalite-1 Associates. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1997 , 28, 1-15		13
42	Alkylation of hydroquinone with tert-butanol over AlSBA-15 mesoporous molecular sieves. <i>Catalysis Letters</i> , 2005 , 100, 95-100	2.8	13
41	Low-temperature catalytic combustion on Pt/SO ₂ /ZrO ₂ and Pd/SO ₂ /ZrO ₂ catalysts. <i>Catalysis Letters</i> , 1996 , 42, 209-212	2.8	13

40	Correlation among preparation methods/conditions, physicochemical properties, and catalytic performance of Rh/hydroxyapatite catalysts in N ₂ O decomposition. <i>Journal of Molecular Catalysis A</i> , 2016 , 420, 73-81		13
39	The Active Sites of a Rod-Shaped Hollandite DeNO _x Catalyst. <i>Chemistry - A European Journal</i> , 2015 , 21, 9619-23	4.8	12
38	Characterization and Catalytic Activities of Al ₂ O ₃ -Promoted Sulfated Tin Oxides. <i>Catalysis Letters</i> , 2009 , 133, 119-124	2.8	12
37	Dehydrogenation of Propane to Propylene over Ga ₂ O ₃ Supported on Mesoporous HZSM-5 in the Presence of CO ₂ . <i>Chinese Journal of Chemistry</i> , 2010 , 28, 1559-1564	4.9	11
36	Catalytic activities and properties of mesoporous sulfated Al ₂ O ₃ /ZrO ₂ . <i>Catalysis Letters</i> , 2007 , 116, 27-34	4.8	11
35	Dehydrogenation of propane to propene over phosphorus-modified HZSM-5 supported Ga ₂ O ₃ . <i>Reaction Kinetics and Catalysis Letters</i> , 2008 , 95, 113-122		11
34	Mn-doped CeO ₂ Nanorod Supported Au Catalysts for Dehydrogenation of Ethane with CO ₂ . <i>Catalysts</i> , 2019 , 9, 119	4	10
33	Dehydrogenation of Propane to Propylene in the Presence of CO ₂ over Steaming-treated HZSM-5 Supported ZnO. <i>Chinese Journal of Chemistry</i> , 2012 , 30, 929-934	4.9	10
32	Catalytic hydrolysis of chlorofluorocarbon (CFC-12) over WO ₃ /ZrO ₂ . <i>Catalysis Letters</i> , 2000 , 65, 85-89	2.8	10
31	Selective oxidation on chromia-pillared zirconium phosphate and phenylphosphonate. <i>Catalysis Letters</i> , 1999 , 57, 37-42	2.8	10
30	Chromium Oxide Supported on Silicalite-1 Zeolite as a Novel Efficient Catalyst for Dehydrogenation of Isobutane Assisted by CO ₂ . <i>Catalysts</i> , 2019 , 9, 1040	4	10
29	Ethylbenzene dehydrogenation to styrene in the presence of carbon dioxide over chromia-based catalysts. <i>New Journal of Chemistry</i> , 2004 , 28, 373	3.6	9
28	Direct conversion of syngas into light aromatics over Cu-promoted ZSM-5 with ceria/zirconia solid solution. <i>Catalysis Science and Technology</i> , 2020 , 10, 6562-6572	5.5	9
27	Liquid-phase α -Pinene Isomerization over Fe-doped Sulfated Zirconia Prepared by a Hydrothermal Treatment-assisted Process. <i>Chinese Journal of Chemistry</i> , 2011 , 29, 1095-1100	4.9	8
26	Isomerization of α -Pinene Over Porous Phosphate Heterostructure Materials: Effects of Porosity and Acidity. <i>Catalysis Letters</i> , 2009 , 131, 560-565	2.8	8
25	In situ ¹³ C MAS NMR Study on the Mechanism of Butane Isomerization Over Catalysts with Different Acid Strength. <i>Topics in Catalysis</i> , 2005 , 35, 141-153	2.3	8
24	g-C ₃ N ₄ modified Co ₃ O ₄ as efficient catalysts for aerobic oxidation of benzyl alcohol. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 128, 109-120	1.6	7
23	Catalyt properties of tungsten oxycarbide and carbide in hydrocarbon conversion. <i>Chinese Journal of Chemistry</i> , 1990 , 8, 207-214	4.9	7

22	Au/TiO ₂ for Ethane Dehydrogenation: Effect of Silica Doping. <i>Catalysis Letters</i> , 2020 , 150, 2013-2020	2.8	6
21	Efficient Aerobic Oxidation of Ethyl Lactate to Ethyl Pyruvate over VO/g-CN Catalysts. <i>ACS Omega</i> , 2020 , 5, 16200-16207	3.9	5
20	Oxidative Dehydrogenation of 1-Butene to 1,3-Butadiene Using CO ₂ over Cr-SiO ₂ Catalysts Prepared by Sol-gel Method. <i>Chemical Research in Chinese Universities</i> , 2018 , 34, 609-615	2.2	5
19	A Highly Efficient Bifunctional Catalyst CoO _x /tri-g-C ₃ N ₄ for One-Pot Aerobic Oxidation-Knoevenagel Condensation Reaction. <i>Catalysts</i> , 2020 , 10, 712	4	5
18	Synthesis of adamantane on zeolite catalysts. <i>Chinese Journal of Chemistry</i> , 2010 , 12, 52-57	4.9	4
17	Isobutane Dehydrogenation Assisted by CO ₂ over Silicalite-1-Supported ZnO Catalysts: Influence of Support Crystallite Size. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 703-708	4.9	3
16	Dehydrogenation activities of highly dispersed transition metal oxides on NaY zeolite. <i>Chinese Journal of Chemistry</i> , 2010 , 10, 320-324	4.9	3
15	Hydrogenation of Methyl Benzoate over Mn/Al Catalysts: Comparison among Catalyst Preparation Routes. <i>Topics in Catalysis</i> , 2005 , 35, 177-185	2.3	3
14	Nanosheet-Like Ho ₂ O ₃ and Sr-Ho ₂ O ₃ Catalysts for Oxidative Coupling of Methane. <i>Catalysts</i> , 2021 , 11, 388	4	3
13	Morphology Effects of Nanoscale Er ₂ O ₃ and Sr-Er ₂ O ₃ Catalysts for Oxidative Coupling of Methane. <i>Catalysis Letters</i> , 2021 , 151, 2197	2.8	3
12	Preparation and catalytic performance of perfluorosulfonic acid-functionalized carbon nanotubes. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 1874-1882	11.3	2
11	Electronic structure and catalytic behavior of tungsten carbides. <i>Chinese Journal of Chemistry</i> , 2010 , 9, 97-101	4.9	2
10	Characterization and Dehydrogenation Activity of SBA-15 and HMS Supported Chromia Catalysts. <i>Chinese Journal of Chemistry</i> , 2010 , 20, 1192-1198	4.9	2
9	Dehydrogenation of ethane assisted by CO ₂ over Y-doped ceria supported Au catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021 , 132, 417-429	1.6	2
8	Hydrogenation of CO over carbides of tungsten. <i>Chinese Journal of Chemistry</i> , 2010 , 10, 5-9	4.9	1
7	Solid-state crystallization process and mechanism of B-Al-ZSM-5 zeolite. <i>Science in China Series B: Chemistry</i> , 1998 , 41, 103-112		1
6	Oxidative coupling of methane over Y ₂ O ₃ and Sr _{0.2} Y _{1.8} O _{7.2} nanorods. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021 , 134, 711	1.6	1
5	Ga-Doped MgAl ₂ O ₄ Spinel as an Efficient Catalyst for Ethane Dehydrogenation to Ethylene Assisted by CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11707-11714	3.9	1

4	Enhanced Catalytic Performance of Cr/MOR for Ethane Dehydrogenation Through Dealumination. <i>Catalysis Letters</i> , 2021 , 151, 1499-1507	2.8	1
3	Enhancing BTX selectivity of the syngas to aromatics reaction through silylation of CTAB pretreated ZSM-5. <i>Catalysis Science and Technology</i> , 2021 , 11, 4944-4952	5.5	1
2	Direct and Highly Selective Conversion of Bioethanol to Propylene Over Y-CeO ₂ and Zeolite Beta Composite. <i>Catalysis Letters</i> , 1	2.8	0
1	ADSORPTION AND CATALYSIS 1995 , 113-198		