

Haibo Zhu

List of Publications by Year in descending order

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55
papers

5,149
citations

186265

28
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149698

56
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all docs

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docs citations

57
times ranked

7148
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically Recoverable Nanocatalysts. <i>Chemical Reviews</i> , 2011, 111, 3036-3075.	47.7	1,535
2	Production of Sulfate Radical from Peroxymonosulfate Induced by a Magnetically Separable CuFe_2O_4 Spinel in Water: Efficiency, Stability, and Mechanism. <i>Environmental Science & Technology</i> , 2013, 47, 2784-2791.	10.0	960
3	Carbon-Layer-Protected Cuprous Oxide Nanowire Arrays for Efficient Water Reduction. <i>ACS Nano</i> , 2013, 7, 1709-1717.	14.6	380
4	Electrochemical reduction induced self-doping of Ti^{3+} for efficient water splitting performance on TiO_2 based photoelectrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15637.	2.8	174
5	Nanosized CaCO_3 as Hard Template for Creation of Intracrystal Pores within Silicalite-1 Crystal. <i>Chemistry of Materials</i> , 2008, 20, 1134-1139.	6.7	157
6	Sn surface-enriched Pt-Sn bimetallic nanoparticles as a selective and stable catalyst for propane dehydrogenation. <i>Journal of Catalysis</i> , 2014, 320, 52-62.	6.2	144
7	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017, 8, 13592.	12.8	142
8	Propane Dehydrogenation over Pt Clusters Localized at the Sn Single-Site in Zeolite Framework. <i>ACS Catalysis</i> , 2020, 10, 818-828.	11.2	136
9	Ni-M-O (M = Sn, Ti, W) Catalysts Prepared by a Dry Mixing Method for Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2016, 6, 2852-2866.	11.2	120
10	Metal oxides modified NiO catalysts for oxidative dehydrogenation of ethane to ethylene. <i>Catalysis Today</i> , 2014, 228, 58-64.	4.4	100
11	Nb effect in the nickel oxide-catalyzed low-temperature oxidative dehydrogenation of ethane. <i>Journal of Catalysis</i> , 2012, 285, 292-303.	6.2	84
12	Synthesis and Catalytic Performances of Mesoporous Zeolites Templated by Polyvinyl Butyral Gel as the Mesopore Directing Agent. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17257-17264.	3.1	78
13	Surface modification of g-C ₃ N ₄ by hydrazine: Simple way for noble-metal free hydrogen evolution catalysts. <i>Chemical Engineering Journal</i> , 2016, 286, 339-346.	12.7	67
14	Direct synthesis of hierarchical SAPO-11 molecular sieve with enhanced hydroisomerization performance. <i>Fuel Processing Technology</i> , 2018, 179, 72-85.	7.2	62
15	Synergetic Effects Leading to Coke-Resistant NiCo Bimetallic Catalysts for Dry Reforming of Methane. <i>ChemCatChem</i> , 2015, 7, 427-433.	3.7	58
16	Ni-Ta-O mixed oxide catalysts for the low temperature oxidative dehydrogenation of ethane to ethylene. <i>Journal of Catalysis</i> , 2015, 329, 291-306.	6.2	57
17	Propane dehydrogenation catalyzed by single Lewis acid site in Sn-Beta zeolite. <i>Journal of Catalysis</i> , 2021, 395, 155-167.	6.2	54
18	Gold Nanoparticles Supported on Fibrous Silica Nanospheres (KCC-1) as Efficient Heterogeneous Catalysts for CO Oxidation. <i>ChemCatChem</i> , 2016, 8, 1671-1678.	3.7	50

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19	Synthesis of ZSM-5 with intracrystal or intercrystal mesopores by polyvinyl butyral templating method. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 432-438.	9.4	49
20	Green Synthesis of Ni ²⁺ /Nb oxide Catalysts for Low-Temperature Oxidative Dehydrogenation of Ethane. <i>ChemSusChem</i> , 2015, 8, 1254-1263.	6.8	49
21	Unmodified bulk alumina as an efficient catalyst for propane dehydrogenation. <i>Catalysis Science and Technology</i> , 2020, 10, 3537-3541.	4.1	48
22	Seed-assisted, template-free synthesis of ZSM-5 zeolite from natural aluminosilicate minerals. <i>Applied Clay Science</i> , 2018, 158, 177-185.	5.2	45
23	Template free synthesis of hierarchical porous zeolite Beta with natural kaolin clay as alumina source. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109772.	4.4	43
24	Pt-Sn clusters anchored at Al ³⁺ -penta sites as a sinter-resistant and regenerable catalyst for propane dehydrogenation. <i>Journal of Energy Chemistry</i> , 2022, 65, 293-301.	12.9	38
25	One-pot synthesis of FeCu-SSZ-13 zeolite with superior performance in selective catalytic reduction of NO by NH ₃ from natural aluminosilicates. <i>Chemical Engineering Journal</i> , 2020, 398, 125515.	12.7	37
26	Bimetallic Pt-Sn nanocluster from the hydrogenolysis of a well-defined surface compound consisting of [(AlO) ₄ Pt(COD)Me] and [(AlO) ₄ SnPh ₃] fragments for propane dehydrogenation. <i>Journal of Catalysis</i> , 2019, 374, 391-400.	6.2	34
27	VO ₂ /SiO ₂ Catalyst Prepared by Grafting VOCl ₃ on Silica for Oxidative Dehydrogenation of Propane. <i>ChemCatChem</i> , 2015, 7, 3332-3339.	3.7	30
28	Selective adsorption of Co(II)/Mn(II) by zeolites from purified terephthalic acid wastewater containing dissolved aromatic organic compounds and metal ions. <i>Science of the Total Environment</i> , 2020, 698, 134287.	8.0	30
29	Surface Composition of Silver Nanocubes and Their Influence on Morphological Stabilization and Catalytic Performance in Ethylene Epoxidation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28576-28584.	8.0	28
30	A high-throughput reactor system for optimization of Mo ²⁺ /V ⁵⁺ /Nb mixed oxide catalyst composition in ethane ODH. <i>Catalysis Science and Technology</i> , 2015, 5, 4164-4173.	4.1	28
31	Synthesis, Modification, and Application of Hollow Mesoporous Carbon Submicrospheres for Adsorptive Desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 15020-15030.	3.7	28
32	Template-Free Synthesis and Catalytic Applications of Microporous and Hierarchical ZSM-5 Zeolites from Natural Aluminosilicate Minerals. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10069-10077.	3.7	26
33	Methane Reacts with Heteropolyacids Chemisorbed on Silica to Produce Acetic Acid under Soft Conditions. <i>Journal of the American Chemical Society</i> , 2013, 135, 804-810.	13.7	24
34	Organosilane with Gemini-Type Structure as the Mesoporegen for the Synthesis of the Hierarchical Porous ZSM-5 Zeolite. <i>Langmuir</i> , 2016, 32, 2085-2092.	3.5	21
35	Direct Synthesis of Hierarchical FeCu-ZSM-5 Zeolite with Wide Temperature Window in Selective Catalytic Reduction of NO by NH ₃ . <i>ChemCatChem</i> , 2019, 11, 4744-4754.	3.7	21
36	Insights into the reaction pathway of n-butane conversion over HZSM-5 zeolite at low temperature. <i>Applied Catalysis A: General</i> , 2019, 584, 117135.	4.3	21

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37	A high-throughput study of the redox properties of Nb-Ni oxide catalysts by low temperature CO oxidation: Implications in ethane ODH. <i>Catalysis Today</i> , 2013, 203, 3-9.	4.4	20
38	Controlled synthesis of ZSM-5 zeolite with an unusual Al distribution in framework from natural aluminosilicate mineral. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110357.	4.4	17
39	Hierarchical Flower-Like NiCu/SiO ₂ Bimetallic Catalysts with Enhanced Catalytic Activity and Stability for Petroleum Resin Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5432-5442.	3.7	17
40	Bimetallic PtSn nanoparticles confined in hierarchical ZSM-5 for propane dehydrogenation. <i>Chinese Journal of Chemical Engineering</i> , 2022, 41, 384-391.	3.5	17
41	Selectively catalytic hydrogenation of styrene-butadiene rubber over Pd/g-C ₃ N ₄ catalyst. <i>Applied Catalysis A: General</i> , 2020, 589, 117312.	4.3	14
42	Synthesis and structure-directing effect of piperazinium hydroxides derived from piperazines for the formation of porous zeolites. <i>Materials Letters</i> , 2006, 60, 2161-2166.	2.6	12
43	From cheap natural bauxite to high-efficient slurry-phase hydrocracking catalyst for high temperature coal tar: A simple hydrothermal modification. <i>Fuel Processing Technology</i> , 2018, 175, 123-130.	7.2	12
44	Synthesis and catalytic application of alumina@SAPO-11 composite via the in situ assembly of silicoaluminophosphate nanoclusters at an alumina substrate. <i>Catalysis Science and Technology</i> , 2018, 8, 4209-4218.	4.1	11
45	Solvent Effect in Heterogeneous Catalytic Selective Hydrogenation of Nitrile Butadiene Rubber: Relationship between Reaction Activity and Solvents with Density Functional Theory Analysis. <i>ChemCatChem</i> , 2020, 12, 663-672.	3.7	11
46	Green fabrication of hierarchical zeolites from natural minerals. <i>National Science Review</i> , 2020, 7, 1632-1634.	9.5	11
47	Dependence of Morphology, Dispersion and Hydrodesulfurization Performance of Active Phases in NiMo/SBA-15 on Loading Method. <i>ChemCatChem</i> , 2018, 10, 3717-3725.	3.7	9
48	Effect of support morphology on the activity and reusability of Pd/SiO ₂ for NBR hydrogenation. <i>Journal of Materials Science</i> , 2020, 55, 12876-12883.	3.7	8
49	Mesoscale depolymerization of natural rectorite mineral via a quasi-solid-phase approach for zeolite synthesis. <i>Chemical Engineering Science</i> , 2020, 220, 115635.	3.8	7
50	Efficiently tailoring the pore diameter of mesoporous MCM-48 to micropore. <i>Materials Letters</i> , 2005, 59, 2110-2114.	2.6	6
51	A general approach for the synthesis of bimetallic M-Sn (M = Ru, Rh and Ir) catalysts for efficient hydrogenolysis of ester. <i>Catalysis Science and Technology</i> , 2017, 7, 581-586.	4.1	6
52	Controllable synthesis of Ir(Rh)-Sn/SiO ₂ bimetallic catalysts via surface organometallic chemistry for the production of ethanol from hydrogenolysis of ethyl acetate. <i>Catalysis Science and Technology</i> , 2020, 10, 1086-1095.	4.1	4
53	In Situ Diffuse Reflectance Infrared Fourier Transform Spectroscopy Investigations on the Evolution of Surface and Catalysis Properties of Alumina-Promoted Sulfated Zirconia during n-Butane Isomerization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 704-712.	3.7	3
54	The controlled synthesis of Pt/H ⁺ catalysts with intimate metal-acid sites for n-butane isomerization. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110547.	4.4	3

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55	Effect of various templates on the formation of mesoporous benzene-silica hybrid material. Studies in Surface Science and Catalysis, 2007, 165, 429-432.	1.5	0