

Weiqing Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,419
citations

279798

23
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361022

35
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41
all docs

41
docs citations

41
times ranked

3171
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular structure, morphology and growth mechanisms and rates of 5-hydroxymethyl furfural (HMF) derived humins. <i>Green Chemistry</i> , 2016, 18, 1983-1993.	9.0	276
2	Production of Dimethylfuran from Hydroxymethylfurfural through Catalytic Transfer Hydrogenation with Ruthenium Supported on Carbon. <i>ChemSusChem</i> , 2013, 6, 1158-1162.	6.8	247
3	Experimental and Theoretical Investigation of Molybdenum Carbide and Nitride as Catalysts for Ammonia Decomposition. <i>Journal of the American Chemical Society</i> , 2013, 135, 3458-3464.	13.7	216
4	Individual Fe ²⁺ /Co Alloy Nanoparticles on Carbon Nanotubes: Structural and Catalytic Properties. <i>Nano Letters</i> , 2008, 8, 2738-2743.	9.1	200
5	Effects of CeO ₂ addition on Ni/Al ₂ O ₃ catalysts for the reaction of ammonia decomposition to hydrogen. <i>Applied Catalysis B: Environmental</i> , 2008, 80, 98-105.	20.2	169
6	The Role of Ru and RuO ₂ in the Catalytic Transfer Hydrogenation of 5-Hydroxymethylfurfural for the Production of 2,5-Dimethylfuran. <i>ChemCatChem</i> , 2014, 6, 848-856.	3.7	136
7	Vapor phase hydrodeoxygenation of furfural to 2-methylfuran on molybdenum carbide catalysts. <i>Catalysis Science and Technology</i> , 2014, 4, 2340.	4.1	132
8	C=O bond activation using ultralow loading of noble metal catalysts on moderately reducible oxides. <i>Nature Catalysis</i> , 2020, 3, 446-453.	34.4	131
9	Polyethylene Hydrogenolysis at Mild Conditions over Ruthenium on Tungstated Zirconia. <i>Jacs Au</i> , 2021, 1, 1422-1434.	7.9	95
10	NH ₃ Decomposition Kinetics on Supported Ru Clusters: Morphology and Particle Size Effect. <i>Catalysis Letters</i> , 2007, 119, 311-318.	2.6	94
11	Structure-Function Correlations for Ru/CNT in the Catalytic Decomposition of Ammonia. <i>ChemSusChem</i> , 2010, 3, 226-230.	6.8	82
12	Solventless C-C Coupling of Low Carbon Furanics to High Carbon Fuel Precursors Using an Improved Graphene Oxide Carbocatalyst. <i>ACS Catalysis</i> , 2017, 7, 3905-3915.	11.2	72
13	Selective Hydrodeoxygenation of Vegetable Oils and Waste Cooking Oils to Green Diesel Using a Silica-Supported Ir-ReO _x Bimetallic Catalyst. <i>ChemSusChem</i> , 2018, 11, 1446-1454.	6.8	66
14	Cellulose Hydrolysis in Acidified LiBr Molten Salt Hydrate Media. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5226-5236.	3.7	63
15	Catalytic Hydrodeoxygenation of High Carbon Furfurylmethanes to Renewable Jet-fuel Ranged Alkanes over a Rhenium-Modified Iridium Catalyst. <i>ChemSusChem</i> , 2017, 10, 3225-3234.	6.8	54
16	Durable and self-hydrating tungsten carbide-based composite polymer electrolyte membrane fuel cells. <i>Nature Communications</i> , 2017, 8, 418.	12.8	42
17	Molybdenum Oxide-Modified Iridium Catalysts for Selective Production of Renewable Oils for Jet and Diesel Fuels and Lubricants. <i>ACS Catalysis</i> , 2019, 9, 7679-7689.	11.2	39
18	Non-oxidative Coupling of Methane to Ethylene Using Mo ₂ C/[B]ZSM-5. <i>ChemPhysChem</i> , 2018, 19, 504-511.	2.1	38

#	ARTICLE	IF	CITATIONS
19	Modulating the dynamics of Brønsted acid sites on PtWO _x inverse catalyst. <i>Nature Catalysis</i> , 2022, 5, 144-153.	34.4	35
20	Process Intensification for Cellulosic Biorefineries. <i>ChemSusChem</i> , 2017, 10, 2566-2572.	6.8	32
21	Production of high-yield short-chain oligomers from cellulose <i>via</i> selective hydrolysis in molten salt hydrates and separation. <i>Green Chemistry</i> , 2019, 21, 5030-5038.	9.0	32
22	Ethane Dehydrogenation on Single and Dual Centers of Ga-modified γ-Al ₂ O ₃ . <i>ACS Catalysis</i> , 2021, 11, 1380-1391.	11.2	30
23	ZnO nanorod arrays assembled on activated carbon fibers for photocatalytic degradation: Characteristics and synergistic effects. <i>Chemosphere</i> , 2020, 261, 127731.	8.2	26
24	Intensified microwave-assisted heterogeneous catalytic reactors for sustainable chemical manufacturing. <i>Chemical Engineering Journal</i> , 2021, 420, 130476.	12.7	24
25	Production of renewable oleo-furan surfactants by cross-ketonization of biomass-derived furoic acid and fatty acids. <i>Catalysis Science and Technology</i> , 2021, 11, 2762-2769.	4.1	13
26	Experimental data-driven reaction network identification and uncertainty quantification of CO ₂ -assisted ethane dehydrogenation over Ga ₂ O ₃ /Al ₂ O ₃ . <i>Chemical Engineering Science</i> , 2021, 237, 116534.	3.8	12
27	CO ₂ -assisted ethane oxidative dehydrogenation over MoO _x catalysts supported on reducible CeO ₂ -TiO ₂ . <i>Catalysis Science and Technology</i> , 2021, 11, 5791-5801.	4.1	11
28	Spectroscopic characterization of a highly selective NiCu ₃ /C hydrodeoxygenation catalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 6100-6108.	4.1	9
29	Core-Shell Nanocatalyst Design by Combining High-Throughput Experiments and First-Principles Simulations. <i>ChemCatChem</i> , 2013, 5, 3712-3718.	3.7	8
30	110th Anniversary: Kinetics and X-ray Absorption Spectroscopy in Methane Total Oxidation over Alumina-Supported Pt, Pd, and Ag-Pd Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17718-17726.	3.7	8
31	Reversible Formation of Silanol Groups in Two-Dimensional Siliceous Nanomaterials under Mild Hydrothermal Conditions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18045-18053.	3.1	7
32	Higher loadings of Pt single atoms and clusters over reducible metal oxides: application to C-O bond activation. <i>Catalysis Science and Technology</i> , 2022, 12, 2920-2928.	4.1	7
33	<i>In Situ</i> Tracking of Nonthermal Plasma Etching of ZIF-8 Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19023-19030.	8.0	7
34	Molten Salt Hydrates in the Synthesis of TiO ₂ Flakes. <i>ACS Omega</i> , 2019, 4, 21302-21310.	3.5	4
35	Volcano curves for homologous series reactions: Oxidation of small alkanes. <i>Applied Catalysis A: General</i> , 2019, 587, 117255.	4.3	2
36	Catalytic Hydrodeoxygenation of High Carbon Furfurylmethanes to Renewable Jet-fuel Ranged Alkanes over a Rhenium-Modified Iridium Catalyst. <i>ChemSusChem</i> , 2017, 10, 3164-3164.	6.8	0

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37	Selective Hydrodeoxygenation of Vegetable Oils and Waste Cooking Oils to Green Diesel Using a Silica-Supported Ir-ReO ₂ Bimetallic Catalyst. ChemSusChem, 0, , .	6.8	0