

Jesse E Hensley

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,131
citations

623734

14
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1947
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalyst design to direct high-octane gasoline fuel properties for improved engine efficiency. Applied Catalysis B: Environmental, 2022, 301, 120801.	20.2	7
2	Methanol to high-octane gasoline within a market-responsive biorefinery concept enabled by catalysis. Nature Catalysis, 2019, 2, 632-640.	34.4	33
3	High-Octane Gasoline from Biomass: Experimental, Economic, and Environmental Assessment. Applied Energy, 2019, 241, 25-33.	10.1	25
4	Growing the Bioeconomy through Catalysis: A Review of Recent Advancements in the Production of Fuels and Chemicals from Syngas-Derived Oxygenates. ACS Catalysis, 2019, 9, 4145-4172.	11.2	73
5	Exploring Low-Temperature Dehydrogenation at Ionic Cu Sites in Beta Zeolite To Enable Alkane Recycle in Dimethyl Ether Homologation. ACS Catalysis, 2017, 7, 3662-3667.	11.2	13
6	Temperature-programmed Deoxygenation of Acetic Acid on Molybdenum Carbide Catalysts. Journal of Visualized Experiments, 2017, , .	0.3	1
7	Organometallic model complexes elucidate the active gallium species in alkane dehydrogenation catalysts based on ligand effects in Ga K-edge XANES. Catalysis Science and Technology, 2016, 6, 6339-6353.	4.1	90
8	Conceptual process design and economics for the production of high-octane gasoline blendstock via indirect liquefaction of biomass through methanol/dimethyl ether intermediates. Biofuels, Bioproducts and Biorefining, 2016, 10, 17-35.	3.7	45
9	Surface Chemistry of Aromatic Reactants on Pt- and Mo-Modified Pt Catalysts. Journal of Physical Chemistry C, 2016, 120, 26824-26833.	3.1	38
10	Enhanced Hydrodeoxygenation of <i>m</i> -Cresol over Bimetallic Pt-Mo Catalysts through an Oxophilic Metal-Induced Tautomerization Pathway. ACS Catalysis, 2016, 6, 4356-4368.	11.2	117
11	Mixed alcohol dehydration over Brønsted and Lewis acidic catalysts. Applied Catalysis A: General, 2016, 510, 110-124.	4.3	59
12	Conversion of Dimethyl Ether to 2,2,3-Trimethylbutane over a Cu/BEA Catalyst: Role of Cu Sites in Hydrogen Incorporation. ACS Catalysis, 2015, 5, 1794-1803.	11.2	37
13	Synthetic Middle-Distillate-Range Hydrocarbons via Catalytic Dimerization of Branched C ₆ -C ₈ Olefins Derived from Renewable Dimethyl Ether. Energy & Fuels, 2015, 29, 6078-6087.	5.1	9
14	A Facile Molecular Precursor Route to Metal Phosphide Nanoparticles and Their Evaluation as Hydrodeoxygenation Catalysts. Chemistry of Materials, 2015, 27, 7580-7592.	6.7	60
15	Recent advances in heterogeneous catalysts for bio-oil upgrading via ex situ catalytic fast pyrolysis catalyst development through the study of model compounds. Green Chemistry, 2014, 16, 454-490.	9.0	418
16	Technoeconomic Analysis for the Production of Mixed Alcohols via Indirect Gasification of Biomass Based on Demonstration Experiments. Industrial & Engineering Chemistry Research, 2014, 53, 12149-12159.	3.7	25
17	Deactivation and stability of K-CoMoS _x mixed alcohol synthesis catalysts. Journal of Catalysis, 2014, 309, 199-208.	6.2	28
18	Techno-economics for conversion of lignocellulosic biomass to ethanol by indirect gasification and mixed alcohol synthesis. Environmental Progress and Sustainable Energy, 2012, 31, 182-190.	2.3	49

#	ARTICLE	IF	CITATIONS
19	Direct Conversion of Renewable CO ₂ -Rich Syngas to High-Octane Hydrocarbons in a Single Reactor. ACS Catalysis, 0, , 9270-9280.	11.2	1