

Xiangyu Jie

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

642
citations

1306789

7
h-index

1199166

12
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13
docs citations

13
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-initiated catalytic deconstruction of plastic waste into hydrogen and high-value carbons. <i>Nature Catalysis</i> , 2020, 3, 902-912.	16.1	287
2	Transforming carbon dioxide into jet fuel using an organic combustion-synthesized Fe-Mn-K catalyst. <i>Nature Communications</i> , 2020, 11, 6395.	5.8	161
3	The decarbonisation of petroleum and other fossil hydrocarbon fuels for the facile production and safe storage of hydrogen. <i>Energy and Environmental Science</i> , 2019, 12, 238-249.	15.6	75
4	Rapid Production of High-Purity Hydrogen Fuel through Microwave-Promoted Deep Catalytic Dehydrogenation of Liquid Alkanes with Abundant Metals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10170-10173.	7.2	42
5	Yolk-Shell Nanocapsule Catalysts as Nanoreactors with Various Shell Structures and Their Diffusion Effect on the CO ₂ Reforming of Methane. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31699-31709.	4.0	21
6	MnO ₂ -Promoted, Coking-Resistant Nickel-Based Catalysts for Microwave-Initiated CO ₂ Utilization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6914-6923.	1.8	13
7	Hydrogen generation in crushed rocks saturated by crude oil and water using microwave heating. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20793-20802.	3.8	12
8	Size-Dependent Microwave Heating and Catalytic Activity of Fine Iron Particles in the Deep Dehydrogenation of Hexadecane. <i>Chemistry of Materials</i> , 2022, 34, 4682-4693.	3.2	8
9	One-Pot Synthesis of Ca Oxide-Promoted Cr Catalysts for the Dehydrogenation of Propane Using CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12645-12656.	1.8	7
10	Catalytic Activity of Various Carbons during the Microwave-Initiated Deep Dehydrogenation of Hexadecane. <i>Jacs Au</i> , 2021, 1, 2021-2032.	3.6	7
11	High-Purity, CO ₂ -Free Hydrogen Generation from Crude Oils in Crushed Rocks Using Microwave Heating. , 2021, , .		4
12	Rapid Production of High-Purity Hydrogen Fuel through Microwave-Promoted Deep Catalytic Dehydrogenation of Liquid Alkanes with Abundant Metals. <i>Angewandte Chemie</i> , 2017, 129, 10304-10307.	1.6	3
13	Light-Assisted Ullmann Coupling of Phenols and Aryl Halides: The Synergetic Effect Between Plasmonic Copper Nanoparticles and Carbon Nanotubes from Various Sources. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	2