

Zheng Lu

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

640
citations

623734

14
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the Local Coordination Environment and Density of FeN ₄ Sites by Mn Cooperation for Electrocatalytic Oxygen Reduction. <i>Small</i> , 2022, 18, e2200911.	10.0	44
2	Scalable synthesis of supported catalysts using fluidized bed atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 042404.	2.1	3
3	Integrated Experimental and Computational K-Edge X-ray Absorption Near-Edge Structure Analysis of Vanadium Catalysts. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11949-11962.	3.1	7
4	Design and Characterization of ALD-Based Overcoats for Supported Metal Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2021, 11, 2605-2619.	11.2	16
5	Engineering Active Fe Sites on Nickel-Iron Layered Double Hydroxide through Component Segregation for Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2020, 13, 811-818.	6.8	62
6	Atomic Layer Deposition Overcoating Improves Catalyst Selectivity and Longevity in Propane Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 13957-13967.	11.2	30
7	Gold Catalysts Synthesized Using a Modified Incipient Wetness Impregnation Method for Propylene Epoxidation. <i>ChemCatChem</i> , 2020, 12, 5993-5999.	3.7	10
8	Structure and reactivity of single site Ti catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , 2019, 377, 419-428.	6.2	38
9	Identification of a Pt ₃ Co Surface Intermetallic Alloy in Pt-Co Propane Dehydrogenation Catalysts. <i>ACS Catalysis</i> , 2019, 9, 5231-5244.	11.2	111
10	Quantification of rhenium oxide dispersion on zeolite: Effect of zeolite acidity and mesoporosity. <i>Journal of Catalysis</i> , 2019, 372, 128-141.	6.2	16
11	Oxidation-Induced Atom Diffusion and Surface Restructuring in Faceted Ternary Pt-Cu-Ni Nanoparticles. <i>Chemistry of Materials</i> , 2019, 31, 1720-1728.	6.7	30
12	Mesopore differences between pillared lamellar MFI and MWW zeolites probed by atomic layer deposition of titania and consequences on photocatalysis. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 260-269.	4.4	11
13	Effects of TiO ₂ in Low Temperature Propylene Epoxidation Using Gold Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1688-1698.	3.1	37
14	Theoretical Studies on the Direct Propylene Epoxidation Using Gold-Based Catalysts: A Mini-Review. <i>Catalysts</i> , 2018, 8, 421.	3.5	21
15	Enhancement of Copper Catalyst Stability for Catalytic Ozonation in Water Treatment Using ALD Overcoating. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43323-43326.	8.0	9
16	Mechanistic insights into the direct propylene epoxidation using Au nanoparticles dispersed on TiO ₂ /SiO ₂ . <i>Chemical Engineering Science</i> , 2018, 191, 169-182.	3.8	26
17	Analysis of the propylene epoxidation mechanism on supported gold nanoparticles. <i>Chemical Engineering Science</i> , 2017, 174, 229-237.	3.8	20
18	Design and synthesis of model and practical palladium catalysts using atomic layer deposition. <i>Catalysis Science and Technology</i> , 2016, 6, 6845-6852.	4.1	11

#	ARTICLE	IF	CITATIONS
19	Towards ALD thin film stabilized single-atom Pd ₁ catalysts. <i>Nanoscale</i> , 2016, 8, 15348-15356.	5.6	98
20	Tuning external surface of unit-cell thick pillared MFI and MWW zeolites by atomic layer deposition and its consequences on acid-catalyzed reactions. <i>Journal of Catalysis</i> , 2016, 337, 177-187.	6.2	40