Payoli Aich

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Scalable synthesis of supported catalysts using fluidized bed atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 042404.	2.1	3
2	Atomic Layer Deposition Overcoating Improves Catalyst Selectivity and Longevity in Propane Dehydrogenation. ACS Catalysis, 2020, 10, 13957-13967.	11.2	30
3	Divanadium substituted keggin [PV2W10O40] on non-reducible supports-Al2O3 and SiO2: synthesis, characterization, and catalytic properties for oxidative dehydrogenation of propane. Reaction Kinetics, Mechanisms and Catalysis, 2020, 131, 753-768.	1.7	3
4	Quantification of BrÃ,nsted Acid Sites in Zeolites by Water Desorption Thermogravimetry. European Journal of Inorganic Chemistry, 2020, 2020, 1860-1866.	2.0	3
5	Catalytic Applications of Vanadium: A Mechanistic Perspective. Chemical Reviews, 2019, 119, 2128-2191.	47.7	323
6	Structure Sensitivity of Acrolein Hydrogenation by Platinum Nanoparticles on Ba x Sr 1â^' x TiO 3 Nanocuboids. ChemCatChem, 2018, 10, 632-641.	3.7	8
7	Atomically Precise Strategy to a PtZn Alloy Nanocluster Catalyst for the Deep Dehydrogenation of <i>n</i> -Butane to 1,3-Butadiene. ACS Catalysis, 2018, 8, 10058-10063.	11.2	67
8	Replication of SMSI via ALD: TiO2 Overcoats Increase Pt-Catalyzed Acrolein Hydrogenation Selectivity. Catalysis Letters, 2018, 148, 2223-2232.	2.6	17
9	Single-site zinc on silica catalysts for propylene hydrogenation and propane dehydrogenation: Synthesis and reactivity evaluation using an integrated atomic layer deposition-catalysis instrument. Journal of Catalysis, 2017, 345, 170-182.	6.2	76
10	Supported Aluminum Catalysts for Olefin Hydrogenation. ACS Catalysis, 2017, 7, 689-694.	11.2	25
11	High Thermal Stability of La ₂ O ₃ - and CeO ₂ -Stabilized Tetragonal ZrO ₂ . Inorganic Chemistry, 2016, 55, 2413-2420.	4.0	18
12	Catalyst synthesis and evaluation using an integrated atomic layer deposition synthesis–catalysis testing tool. Review of Scientific Instruments, 2015, 86, 084103.	1.3	20
13	Catalyst Design with Atomic Layer Deposition. ACS Catalysis, 2015, 5, 1804-1825.	11.2	608
14	Epitaxial Stabilization of Face Selective Catalysts. Topics in Catalysis, 2013, 56, 1829-1834.	2.8	20
15	Selective Adsorption of Manganese onto Rhodium for Optimized Mn/Rh/SiO ₂ Alcohol Synthesis Catalysts. ChemCatChem, 2013, 5, 3665-3672.	3.7	42
16	Rücktitelbild: Stabilization of Copper Catalysts for Liquid-Phase Reactions by Atomic Layer Deposition (Angew. Chem. 51/2013). Angewandte Chemie, 2013, 125, 14068-14068.	2.0	1
17	Aqueous Phase Glycerol Reforming by PtMo Bimetallic Nano-Particle Catalyst: Product Selectivity and Structural Characterization. Topics in Catalysis, 2012, 55, 53-69.	2.8	62
18	Fischerâ^'Tropsch Synthesis: Influence of Mn on the Carburization Rates and Activities of Fe-Based Catalysts by TPR-EXAFS/XANES and Catalyst Testing. Journal of Physical Chemistry C, 2011, 115, 4783-4792.	3.1	56

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19	Synthesis of Highly Ordered Hydrothermally Stable Mesoporous Niobia Catalysts by Atomic Layer Deposition. ACS Catalysis, 2011, 1, 1234-1245.	11.2	132
20	Acidâ€Catalyzed Furfuryl Alcohol Polymerization: Characterizations of Molecular Structure and Thermodynamic Properties. ChemCatChem, 2011, 3, 1451-1458.	3.7	105
21	Oxidative Hydrolysis of Cellobiose to Glucose. Catalysis Letters, 2011, 141, 498-506.	2.6	13
22	Oxidative Dehydrogenation Properties of Novel Nanostructured Polyoxovanadate Based Materials. Catalysis Letters, 2011, 141, 538-543.	2.6	12
23	Phthalocyanine- and Calixarene-Templating Effect on the Catalytic Performance of Solid Supported Vanadates. Catalysis Letters, 2011, 141, 1086-1096.	2.6	4
24	Low-Temperature Water–Gas Shift: Doping Ceria Improves Reducibility and Mobility of O-Bound Species and Catalyst Activity. Catalysis Letters, 2011, 141, 1723-1731.	2.6	15
25	Vibrational properties of levulinic acid and furan derivatives: Raman spectroscopy and theoretical calculations. Journal of Raman Spectroscopy, 2011, 42, 2069-2076.	2.5	71
26	Vanadium Oxide Based Nanostructured Materials for Catalytic Oxidative Dehydrogenation of Propane: Effect of Heterometallic Centers on the Catalyst Performance. Catalysis Letters, 2010, 135, 282-290.	2.6	8
27	Fischerâ^'Tropsch Synthesis: An In-Situ TPR-EXAFS/XANES Investigation of the Influence of Group I Alkali Promoters on the Local Atomic and Electronic Structure of Carburized Iron/Silica Catalysts. Journal of Physical Chemistry C, 2010, 114, 7895-7903.	3.1	138
28	Genesis and Evolution of Surface Species during Pt Atomic Layer Deposition on Oxide Supports Characterized by in Situ XAFS Analysis and Waterâ^'Gas Shift Reaction. Journal of Physical Chemistry C, 2010, 114, 9758-9771.	3.1	124
29	Vanadium Oxide Based Nanostructured Materials: Novel Oxidative Dehydrogenation Catalysts. Catalysis Letters, 2009, 128, 256-262.	2.6	13
30	Hydrolysis of silicon–hydride bonds catalyzed by ferromagnetic cobalt nanoparticles. Catalysis Letters, 2007, 114, 145-150.	2.6	5
31	Catalytic deNO x properties of novel vanadium oxide based open-framework materials. Catalysis Letters, 2006, 112, 1-12.	2.6	27