

M Alexander Ardagh

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

496
citations

759233

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888059

17
g-index

32
all docs

32
docs citations

32
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic resonance theory: Negative dynamic surfaces for programmable catalysts. Chem Catalysis, 2022, 2, 140-163.	6.1	17
2	Creating Brønsted acidity at the SiO ₂ -Nb ₂ O ₅ interface. Journal of Catalysis, 2021, 394, 387-396.	6.2	8
3	On the Spatial Design of Co-Fed Amines for Selective Dehydration of Methyl Lactate to Acrylates. ACS Catalysis, 2021, 11, 5718-5735.	11.2	6
4	Electric-Field-Assisted Modulation of Surface Thermochemistry. ACS Catalysis, 2020, 10, 12867-12880.	11.2	23
5	Controlled Deposition of Silica on Titania-Silica to Alter the Active Site Surroundings on Epoxidation Catalysts. ACS Catalysis, 2020, 10, 13008-13018.	11.2	10
6	Catalysis-in-a-Box: Robotic Screening of Catalytic Materials in the Time of COVID-19 and Beyond. Matter, 2020, 3, 805-823.	10.0	13
7	Resonance-Promoted Formic Acid Oxidation via Dynamic Electrocatalytic Modulation. ACS Catalysis, 2020, 10, 9932-9942.	11.2	46
8	The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. ACS Catalysis, 2020, 10, 12666-12695.	11.2	54
9	Kinetics of 2-Methylfuran Acylation with Fatty Acid Anhydrides for Biorenewable Surfactants. ACS Sustainable Chemistry and Engineering, 2020, 8, 18616-18625.	6.7	7
10	Catalytic resonance theory: parallel reaction pathway control. Chemical Science, 2020, 11, 3501-3510.	7.4	35
11	Demonstrating the Critical Role of Solvation in Supported Ti and Nb Epoxidation Catalysts via Vapor-Phase Kinetics. ACS Catalysis, 2020, 10, 2817-2825.	11.2	16
12	On the Economics and Process Design of Renewable Butadiene from Biomass-Derived Furfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 3273-3282.	6.7	22
13	Catalytic resonance theory: superVolcanoes, catalytic molecular pumps, and oscillatory steady state. Catalysis Science and Technology, 2019, 9, 5058-5076.	4.1	43
14	Principles of Dynamic Heterogeneous Catalysis: Surface Resonance and Turnover Frequency Response. ACS Catalysis, 2019, 9, 6929-6937.	11.2	104
15	Strong electrostatic adsorption of Pt onto SiO ₂ partially overcoated Al ₂ O ₃ ™ Towards single atom catalysts. Journal of Chemical Physics, 2019, 151, 214703.	3.0	20
16	Synthesis and stabilization of small Pt nanoparticles on TiO ₂ partially masked by SiO ₂ . Applied Catalysis A: General, 2018, 551, 122-128.	4.3	18
17	Depositing SiO ₂ on Al ₂ O ₃ : a Route to Tunable Brønsted Acid Catalysts. ACS Catalysis, 2016, 6, 6156-6164.	11.2	50