# M Alexander Ardagh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2699539/publications.pdf

Version: 2024-02-01

| 17 | 496 | 759233 12 | 888059 17 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 32 | 32 | 32 | 650 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Principles of Dynamic Heterogeneous Catalysis: Surface Resonance and Turnover Frequency Response. ACS Catalysis, 2019, 9, 6929-6937. | 11.2 | 104 |
| 2 | The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. ACS Catalysis, 2020, 10, 12666-12695. | 11.2 | 54 |
| 3 | Depositing SiO<sub>2</sub> on Al<sub>2</sub>O<sub>3</sub>: a Route to Tunable BrÃ¸nsted Acid Catalysts. ACS Catalysis, 2016, 6, 6156-6164. | 11.2 | 50 |
| 4 | Resonance-Promoted Formic Acid Oxidation via Dynamic Electrocatalytic Modulation. ACS Catalysis, 2020, 10, 9932-9942. | 11.2 | 46 |
| 5 | Catalytic resonance theory: superVolcanoes, catalytic molecular pumps, and oscillatory steady state. Catalysis Science and Technology, 2019, 9, 5058-5076. | 4.1 | 43 |
| 6 | Catalytic resonance theory: parallel reaction pathway control. Chemical Science, 2020, 11, 3501-3510. | 7.4 | 35 |
| 7 | Electric-Field-Assisted Modulation of Surface Thermochemistry. ACS Catalysis, 2020, 10, 12867-12880. | 11.2 | 23 |
| 8 | 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 |
| 9 | Strong electrostatic adsorption of Pt onto SiO2 partially overcoated Al2O3â€"Towards single atom catalysts. Journal of Chemical Physics, 2019, 151, 214703. | 3.0 | 20 |
| 10 | Synthesis and stabilization of small Pt nanoparticles on TiO2 partially masked by SiO2. Applied Catalysis A: General, 2018, 551, 122-128. | 4.3 | 18 |
| 11 | Catalytic resonance theory: Negative dynamic surfaces for programmable catalysts. Chem Catalysis, 2022, 2, 140-163. | 6.1 | 17 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Creating BrÃ¸nsted acidity at the SiO2-Nb2O5 interface. Journal of Catalysis, 2021, 394, 387-396. | 6.2 | 8 |
| 16 | Kinetics of 2-Methylfuran Acylation with Fatty Acid Anhydrides for Biorenewable Surfactants. ACS Sustainable Chemistry and Engineering, 2020, 8, 18616-18625. | 6.7 | 7 |
| 17 | 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 |