

Ya-Huei Cathy Chin

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,016
citations

567281

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docs citations

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1476
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Active site structure and methane oxidation reactivity of bimetallic Pd and Pt nanoparticles. <i>Applied Catalysis A: General</i> , 2022, 629, 118290. | 4.3 | 12 |
| 2 | Catalytic pathways and mechanistic consequences of water during vapor phase hydrogenation of butanal on Ru/SiO ₂ . <i>Journal of Catalysis</i> , 2021, 394, 429-443. | 6.2 | 12 |
| 3 | Mechanistic Similarities and Differences for Hydrogenation of Aromatic Heterocycles and Aliphatic Carbonyls on Sulfided Ru Nanoparticles. <i>ACS Catalysis</i> , 2021, 11, 12585-12608. | 11.2 | 3 |
| 4 | Catalytic Effects of Chemisorbed Sulfur on Pyridine and Cyclohexene Hydrogenation on Pd and Pt Clusters. <i>ACS Catalysis</i> , 2021, 11, 1684-1705. | 11.2 | 14 |
| 5 | The Role of Protons and Hydrides in the Catalytic Hydrogenolysis of Guaiacol at the Ruthenium Nanoparticle-Water Interface. <i>ACS Catalysis</i> , 2020, 10, 12310-12332. | 11.2 | 29 |
| 6 | Generalized Mechanistic Framework for Ethane Dehydrogenation and Oxidative Dehydrogenation on Molybdenum Oxide Catalysts. <i>ACS Catalysis</i> , 2020, 10, 6952-6968. | 11.2 | 53 |
| 7 | Mechanistic Role of the Proton-Hydride Pair in Heteroarene Catalytic Hydrogenation. <i>ACS Catalysis</i> , 2019, 9, 9418-9437. | 11.2 | 16 |
| 8 | Kinetic Significance of Proton-Electron Transfer during Condensed Phase Reduction of Carbonyls on Transition Metal Clusters. <i>ACS Catalysis</i> , 2019, 9, 1763-1778. | 11.2 | 45 |
| 9 | Anionic Single-Atom Catalysts for CO Oxidation: Support-Independent Activity at Low Temperatures. <i>ACS Catalysis</i> , 2019, 9, 1595-1604. | 11.2 | 54 |
| 10 | Chemical and Structural Dynamics of Nanostructures in Bimetallic Pt-Pd Catalysts, Their Inhomogeneity, and Their Roles in Methane Oxidation. <i>ACS Catalysis</i> , 2019, 9, 5445-5461. | 11.2 | 46 |
| 11 | Mechanistic details of C-O bond activation in and H-addition to guaiacol at water-Ru cluster interfaces. <i>Journal of Catalysis</i> , 2019, 370, 186-199. | 6.2 | 19 |
| 12 | Cascade Reactions in Tunable Lamellar Micro- and Mesopores for C=C Bond Coupling and Hydrocarbon Synthesis. <i>Angewandte Chemie</i> , 2018, 130, 13068-13072. | 2.0 | 8 |
| 13 | Influence of Carbon and Oxygen Chemical Potentials on the Hydrogen Donor Identity during Methanation on Ni, Co, and Ni-Co Clusters. <i>ChemCatChem</i> , 2018, 11, 1244. | 3.7 | 3 |
| 14 | Catalytic Consequences of Reactive Intermediates during CO Oxidation on Ag Clusters. <i>ACS Catalysis</i> , 2018, 8, 11987-11998. | 11.2 | 7 |
| 15 | Innenrücktitelbild: Cascade Reactions in Tunable Lamellar Micro- and Mesopores for C=C Bond Coupling and Hydrocarbon Synthesis (<i>Angew. Chem.</i> 39/2018). <i>Angewandte Chemie</i> , 2018, 130, 13159-13159. | 2.0 | 0 |
| 16 | Cascade Reactions in Tunable Lamellar Micro- and Mesopores for C=C Bond Coupling and Hydrocarbon Synthesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12886-12890. | 13.8 | 12 |
| 17 | Consequences of Surface Oxophilicity of Ni, Ni-Co, and Co Clusters on Methane Activation. <i>Journal of the American Chemical Society</i> , 2017, 139, 6928-6945. | 13.7 | 104 |
| 18 | Butanal Condensation Chemistry Catalyzed by Brünsted Acid Sites on Polyoxometalate Clusters. <i>ChemCatChem</i> , 2017, 9, 287-299. | 3.7 | 36 |

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|----|--|------|-----------|
| 19 | Catalytic Pathways and Kinetic Requirements for Alkanal Deoxygenation on Solid Tungstosilicic Acid Clusters. <i>ACS Catalysis</i> , 2016, 6, 6634-6650. | 11.2 | 8 |
| 20 | Mechanistic insights on C O and C C bond activation and hydrogen insertion during acetic acid hydrogenation catalyzed by ruthenium clusters in aqueous medium. <i>Journal of Catalysis</i> , 2016, 340, 107-121. | 6.2 | 40 |
| 21 | Mechanism of intra- and inter-molecular CC bond formation of propanal on Brønsted acid sites contained within MFI zeolites. <i>Journal of Catalysis</i> , 2014, 311, 244-256. | 6.2 | 20 |
| 22 | Catalytic consequences of the identity and coverages of reactive intermediates during methanol partial oxidation on Pt clusters. <i>Journal of Catalysis</i> , 2014, 313, 55-69. | 6.2 | 17 |
| 23 | Catalytic Consequences of the Thermodynamic Activities at Metal Cluster Surfaces and Their Periodic Reactivity Trend for Methanol Oxidation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12148-12152. | 13.8 | 15 |
| 24 | Consequences of Metal-Oxide Interconversion for C-H Bond Activation during CH ₄ Reactions on Pd Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 15425-15442. | 13.7 | 256 |
| 25 | Reactivity of Chemisorbed Oxygen Atoms and Their Catalytic Consequences during CH ₄ -O ₂ Catalysis on Supported Pt Clusters. <i>Journal of the American Chemical Society</i> , 2011, 133, 15958-15978. | 13.7 | 184 |