

Weiting Yu

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

3,235
citations

279798

23
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414414

32
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35
all docs

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docs citations

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times ranked

5314
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Review of Pt-Based Bimetallic Catalysis: From Model Surfaces to Supported Catalysts. <i>Chemical Reviews</i> , 2012, 112, 5780-5817. | 47.7 | 1,082 |
| 2 | Highly porous non-precious bimetallic electrocatalysts for efficient hydrogen evolution. <i>Nature Communications</i> , 2015, 6, 6567. | 12.8 | 440 |
| 3 | CO ₂ Hydrogenation over Oxide-Supported PtCo Catalysts: The Role of the Oxide Support in Determining the Product Selectivity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7968-7973. | 13.8 | 261 |
| 4 | Recent development in the fabrication of self-healing superhydrophobic surfaces. <i>Chemical Engineering Journal</i> , 2019, 373, 531-546. | 12.7 | 200 |
| 5 | Selective Hydrodeoxygenation of Biomass-Derived Oxygenates to Unsaturated Hydrocarbons using Molybdenum Carbide Catalysts. <i>ChemSusChem</i> , 2013, 6, 798-801. | 6.8 | 173 |
| 6 | Trends in Electrochemical Stability of Transition Metal Carbides and Their Potential Use As Supports for Low-Cost Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 1558-1562. | 11.2 | 142 |
| 7 | Differentiation of O-H and C-H Bond Scission Mechanisms of Ethylene Glycol on Pt and Ni/Pt Using Theory and Isotopic Labeling Experiments. <i>Journal of the American Chemical Society</i> , 2011, 133, 7996-8004. | 13.7 | 107 |
| 8 | Theoretical and experimental studies of the adsorption geometry and reaction pathways of furfural over FeNi bimetallic model surfaces and supported catalysts. <i>Journal of Catalysis</i> , 2014, 317, 253-262. | 6.2 | 88 |
| 9 | Designing an Electron-Deficient Pd/NiCo ₂ O ₄ Bifunctional Electrocatalyst with an Enhanced Hydrodechlorination Activity to Reduce the Consumption of Pd. <i>Environmental Science & Technology</i> , 2021, 55, 10087-10096. | 10.0 | 64 |
| 10 | Selective hydrogenation of 1,3-butadiene on PdNi bimetallic catalyst: From model surfaces to supported catalysts. <i>Journal of Catalysis</i> , 2014, 316, 1-10. | 6.2 | 55 |
| 11 | Reaction Pathways of Biomass-Derived Oxygenates over Metals and Carbides: From Model Surfaces to Supported Catalysts. <i>ChemCatChem</i> , 2015, 7, 1402-1421. | 3.7 | 50 |
| 12 | Hypercrosslinked polystyrene microspheres with bimodal pore size distribution and controllable macroporosity. <i>Journal of Applied Polymer Science</i> , 2010, 116, 84-92. | 2.6 | 47 |
| 13 | Catalytic performance and reaction mechanism of NO oxidation over Co ₃ O ₄ catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118371. | 20.2 | 47 |
| 14 | Selective deoxygenation of aldehydes and alcohols on molybdenum carbide (Mo ₂ C) surfaces. <i>Applied Surface Science</i> , 2014, 323, 88-95. | 6.1 | 46 |
| 15 | Theoretical and Experimental Studies of C-C versus C-O Bond Scission of Ethylene Glycol Reaction Pathways via Metal-Modified Molybdenum Carbides. <i>ACS Catalysis</i> , 2014, 4, 1409-1418. | 11.2 | 45 |
| 16 | Glycolaldehyde as a Probe Molecule for Biomass Derivatives: Reaction of C-OH and C=O Functional Groups on Monolayer Ni Surfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 20528-20535. | 13.7 | 42 |
| 17 | CO ₂ Hydrogenation over Oxide-Supported PtCo Catalysts: The Role of the Oxide Support in Determining the Product Selectivity. <i>Angewandte Chemie</i> , 2016, 128, 8100-8105. | 2.0 | 41 |
| 18 | Facile treatment tuning the morphology of Pb with state-of-the-art selectivity in CO ₂ electroreduction to formate. <i>Chemical Communications</i> , 2021, 57, 7418-7421. | 4.1 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Electrocatalytic hydrogen evolution on iron-cobalt nanoparticles encapsulated in nitrogenated carbon nanotube. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16478-16486. | 7.1 | 32 |
| 20 | Challenges and opportunities in correlating bimetallic model surfaces and supported catalysts. <i>Journal of Catalysis</i> , 2013, 308, 2-10. | 6.2 | 31 |
| 21 | Comparison of Reaction Pathways of Ethylene Glycol, Acetaldehyde, and Acetic Acid on Tungsten Carbide and Ni-Modified Tungsten Carbide Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5720-5729. | 3.1 | 29 |
| 22 | The effects of oxide supports on the low temperature hydrogenation activity of acetone over Pt/Ni bimetallic catalysts on SiO ₂ , γ -Al ₂ O ₃ and TiO ₂ . <i>Applied Catalysis A: General</i> , 2011, 393, 44-49. | 4.3 | 26 |
| 23 | Optimized pore configuration in solar-driven regenerable adsorbent for organic micro-pollutants removal. <i>Chemical Engineering Journal</i> , 2021, 426, 131244. | 12.7 | 24 |
| 24 | General Trends in the Partial and Complete Hydrogenation of 1,4-Cyclohexadiene over Pt-Co, Pt-Ni and Pt-Cu Bimetallic Catalysts. <i>ChemCatChem</i> , 2010, 2, 625-628. | 3.7 | 22 |
| 25 | Correlating the Surface Chemistry of C ₂ and C ₃ Aldoses with a C ₆ Sugar: Reaction of Glucose, Glyceraldehyde, and Glycolaldehyde on Pd(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 18891-18898. | 3.1 | 22 |
| 26 | Enhanced electrocatalytic dechlorination of 2,4-dichlorophenoxyacetic acid on <i>in situ</i> prepared Pd-anchored Ni(OH) ₂ bifunctional electrodes: synergistic effect between H [*] formation on Ni(OH) ₂ and dechlorination steps on Pd. <i>Catalysis Science and Technology</i> , 2019, 9, 5130-5141. | 4.1 | 18 |
| 27 | Dispersed copper nanoparticles promote the electron mobility of nitrogen-rich graphitized carbon aerogel for electrochemical determination of 4-nitrophenol. <i>Mikrochimica Acta</i> , 2019, 186, 853. | 5.0 | 17 |
| 28 | Low-Temperature Hydrogenation and Dehydrogenation of 1,3-Cyclohexadiene on Pt/Ni Bimetallic Catalysts. <i>Chinese Journal of Catalysis</i> , 2010, 31, 955-960. | 14.0 | 10 |
| 29 | Biomass-derived oxygenate reforming on Pt(111): A demonstration of surface science using d-glucose and its model surrogate glycolaldehyde. <i>Surface Science</i> , 2012, 606, L91-L94. | 1.9 | 10 |
| 30 | Reaction pathways of model compounds of biomass-derived oxygenates on Fe/Ni bimetallic surfaces. <i>Surface Science</i> , 2015, 640, 159-164. | 1.9 | 10 |
| 31 | Highly selective electrocatalytic reduction of CO ₂ to HCOOH over an <i>in situ</i> derived hydrocerussite thin film on a Pb substrate. <i>Chemosphere</i> , 2022, 291, 132889. | 8.2 | 10 |
| 32 | Ag-MOF-derived 3D Ag dendrites used for the efficient electrocatalytic reduction of CO ₂ to CO. <i>Electrochimica Acta</i> , 2022, 403, 139652. | 5.2 | 10 |