# Cheng Hao Wu

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Stabilization of a nanoporous NiCu dilute alloy catalyst for non-oxidative ethanol dehydrogenation. Catalysis Science and Technology, 2020, 10, 5207-5217. | 4.1 | 17 |
| 2 | CO Oxidation Mechanisms on CoO<sub><i>x</i></sub>-Pt Thin Films. Journal of the American Chemical Society, 2020, 142, 8312-8322. | 13.7 | 39 |
| 3 | Bimetallic synergy in cobaltâ€“palladium nanocatalysts for CO oxidation. Nature Catalysis, 2019, 2, 78-85. | 34.4 | 195 |
| 4 | X-ray-Induced Fragmentation of Imidazolium-Based Ionic Liquids Studied by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 785-790. | 4.6 | 14 |
| 5 | Environment-Dependent Radiation Damage in Atmospheric Pressure X-ray Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 737-744. | 2.6 | 30 |
| 6 | Strong O 2pâ€“Fe 3d Hybridization Observed in Solution-Grown Hematite Films by Soft X-ray Spectroscopies. Journal of Physical Chemistry B, 2018, 122, 927-932. | 2.6 | 18 |
| 7 | Molecular-Scale Structure of Electrodeâ€“Electrolyte Interfaces: The Case of Platinum in Aqueous Sulfuric Acid. Journal of the American Chemical Society, 2018, 140, 16237-16244. | 13.7 | 32 |
| 8 | Structure of Copperâ€“Cobalt Surface Alloys in Equilibrium with Carbon Monoxide Gas. Journal of the American Chemical Society, 2018, 140, 6575-6581. | 13.7 | 23 |
| 9 | Using soft x-ray absorption spectroscopy to characterize electrode/electrolyte interfaces in-situ and operando. Journal of Electron Spectroscopy and Related Phenomena, 2017, 221, 2-9. | 1.7 | 25 |
| 10 | Electronic Structure, Optoelectronic Properties, and Photoelectrochemical Characteristics of Î³-Cu<sub>3</sub>V<sub>2</sub>O<sub>8</sub> Thin Films. Chemistry of Materials, 2017, 29, 3334-3345. | 6.7 | 60 |
| 11 | Synthesis of Pt<sub>3</sub>Y and Other Earlyâ€“Late Intermetallic Nanoparticles by Way of a Molten Reducing Agent. Journal of the American Chemical Society, 2017, 139, 5672-5675. | 13.7 | 77 |
| 12 | Ambient-Pressure X-ray Photoelectron Spectroscopy Study of Cobalt Foil Model Catalyst under CO, H<sub>2</sub>, and Their Mixtures. ACS Catalysis, 2017, 7, 1150-1157. | 11.2 | 50 |
| 13 | (Invited) In-Situ /Operando X-Ray Absorption Spectroscopy Technique for the Characterization of Electrode/Electrolyte Interfaces. ECS Meeting Abstracts, 2017, , . | 0.0 | 0 |
| 14 | Structure and Dynamics of Reactant Coadsorption on Single Crystal Model Catalysts by HP-STM and AP-XPS: A Mini Review. Topics in Catalysis, 2016, 59, 405-419. | 2.8 | 14 |
| 15 | What Limits the Performance of Ta3N5 for Solar Water Splitting?. CheM, 2016, 1, 640-655. | 11.7 | 143 |
| 16 | Activation of Cu(111) surface by decomposition into nanoclusters driven by CO adsorption. Science, 2016, 351, 475-478. | 12.6 | 245 |
| 17 | Advanced Materials and Nanotechnology for Sustainable Energy Development. Journal of Nanotechnology, 2015, 2015, 1-1. | 3.4 | 1 |
| 18 | Stable Cobalt Nanoparticles and Their Monolayer Array as an Efficient Electrocatalyst for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 7071-7074. | 13.7 | 299 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Synthesis and Structural Evolution of Nickel-Cobalt Nanoparticles Under H<sub>2</sub>and CO<sub>2</sub>. Small, 2015, 11, 3045-3053. | 10.0 | 42 |
| 20 | Interrelationships among Grain Size, Surface Composition, Air Stability, and Interfacial Resistance of Al-Substituted Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> Solid Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 17649-17655. | 8.0 | 220 |
| 21 | Reaction of CO with Preadsorbed Oxygen on Low-Index Copper Surfaces: An Ambient Pressure X-ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2015, 119, 14669-14674. | 3.1 | 43 |
| 22 | Thermal Stability of Coreâ€“Shell Nanoparticles: A Combined in Situ Study by XPS and TEM. Chemistry of Materials, 2015, 27, 6960-6968. | 6.7 | 70 |
| 23 | Probing electrode/electrolyte interfaces in situ by X-ray spectroscopies: old methods, new tricks. Physical Chemistry Chemical Physics, 2015, 17, 30229-30239. | 2.8 | 83 |
| 24 | Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. Faraday Discussions, 2014, 171, 219-241. | 3.2 | 28 |
| 25 | Polarized X-ray Absorption Spectroscopy Observation of Electronic and Structural Changes of Chemical Vapor Deposition Graphene in Contact with Water. Journal of Physical Chemistry C, 2014, 118, 25456-25459. | 3.1 | 23 |
| 26 | The structure of interfacial water on gold electrodes studied by x-ray absorption spectroscopy. Science, 2014, 346, 831-834. | 12.6 | 391 |
| 27 | All Inorganic Semiconductor Nanowire Mesh for Direct Solar Water Splitting. ACS Nano, 2014, 8, 11739-11744. | 14.6 | 67 |
| 28 | X-ray Absorption Spectra of Dissolved Polysulfides in Lithiumâ€“Sulfur Batteries from First-Principles. Journal of Physical Chemistry Letters, 2014, 5, 1547-1551. | 4.6 | 134 |
| 29 | Influence of Step Geometry on the Reconstruction of Stepped Platinum Surfaces under Coadsorption of Ethylene and CO. Journal of Physical Chemistry Letters, 2014, 5, 2626-2631. | 4.6 | 16 |
| 30 | Organometallic Ruthenium Nanoparticles as Model Catalysts for CO Hydrogenation: A Nuclear Magnetic Resonance and Ambient-Pressure X-ray Photoelectron Spectroscopy Study. ACS Catalysis, 2014, 4, 3160-3168. | 11.2 | 42 |
| 31 | Fingerprinting Lithium-Sulfur Battery Reaction Products by X-ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2014, 161, A1100-A1106. | 2.9 | 76 |
| 32 | Toward Ultrafast In Situ X-Ray Studies of Interfacial Photoelectrochemistry. , 2014, , . | | 0 |
| 33 | Ta<sub>3</sub>N<sub>5</sub> Nanowire Bundles as Visibleâ€Lightâ€Responsive Photoanodes. Chemistry - an Asian Journal, 2013, 8, 2354-2357. | 3.3 | 17 |
| 34 | Si/InGaN Core/Shell Hierarchical Nanowire Arrays and their Photoelectrochemical Properties. Nano Letters, 2012, 12, 1678-1682. | 9.1 | 209 |
| 35 | Epitaxial Growth of InGaN Nanowire Arrays for Light Emitting Diodes. ACS Nano, 2011, 5, 3970-3976. | 14.6 | 118 |
| 36 | Goldâ€Based Hybrid Nanocrystals Through Heterogeneous Nucleation and Growth. Advanced Materials, 2010, 22, 1936-1940. | 21.0 | 96 |