

Cheng Hao Wu

List of Publications by Year in descending order

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36
papers

2,963
citations

257450

24
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

6080
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure of interfacial water on gold electrodes studied by x-ray absorption spectroscopy. <i>Science</i> , 2014, 346, 831-834.	12.6	391
2	Stable Cobalt Nanoparticles and Their Monolayer Array as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 7071-7074.	13.7	299
3	Activation of Cu(111) surface by decomposition into nanoclusters driven by CO adsorption. <i>Science</i> , 2016, 351, 475-478.	12.6	245
4	Interrelationships among Grain Size, Surface Composition, Air Stability, and Interfacial Resistance of Al-Substituted $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17649-17655.	8.0	220
5	Si/InGaN Core/Shell Hierarchical Nanowire Arrays and their Photoelectrochemical Properties. <i>Nano Letters</i> , 2012, 12, 1678-1682.	9.1	209
6	Bimetallic synergy in cobalt-palladium nanocatalysts for CO oxidation. <i>Nature Catalysis</i> , 2019, 2, 78-85.	34.4	195
7	What Limits the Performance of Ta ₃ N ₅ for Solar Water Splitting?. <i>CheM</i> , 2016, 1, 640-655.	11.7	143
8	X-ray Absorption Spectra of Dissolved Polysulfides in Lithium-Sulfur Batteries from First-Principles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1547-1551.	4.6	134
9	Epitaxial Growth of InGaN Nanowire Arrays for Light Emitting Diodes. <i>ACS Nano</i> , 2011, 5, 3970-3976.	14.6	118
10	Gold-Based Hybrid Nanocrystals Through Heterogeneous Nucleation and Growth. <i>Advanced Materials</i> , 2010, 22, 1936-1940.	21.0	96
11	Probing electrode/electrolyte interfaces in situ by X-ray spectroscopies: old methods, new tricks. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30229-30239.	2.8	83
12	Synthesis of Pt ₃ Y and Other Early-Late Intermetallic Nanoparticles by Way of a Molten Reducing Agent. <i>Journal of the American Chemical Society</i> , 2017, 139, 5672-5675.	13.7	77
13	Fingerprinting Lithium-Sulfur Battery Reaction Products by X-ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1100-A1106.	2.9	76
14	Thermal Stability of Core-Shell Nanoparticles: A Combined in Situ Study by XPS and TEM. <i>Chemistry of Materials</i> , 2015, 27, 6960-6968.	6.7	70
15	All Inorganic Semiconductor Nanowire Mesh for Direct Solar Water Splitting. <i>ACS Nano</i> , 2014, 8, 11739-11744.	14.6	67
16	Electronic Structure, Optoelectronic Properties, and Photoelectrochemical Characteristics of $\beta\text{-Cu}_3\text{V}_2\text{O}_8$ Thin Films. <i>Chemistry of Materials</i> , 2017, 29, 3334-3345.	6.7	60
17	Ambient-Pressure X-ray Photoelectron Spectroscopy Study of Cobalt Foil Model Catalyst under CO, H ₂ , and Their Mixtures. <i>ACS Catalysis</i> , 2017, 7, 1150-1157.	11.2	50
18	Reaction of CO with Preadsorbed Oxygen on Low-Index Copper Surfaces: An Ambient Pressure X-ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14669-14674.	3.1	43

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19	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
20	Synthesis and Structural Evolution of Nickel-Cobalt Nanoparticles Under H ₂ and CO ₂ . Small, 2015, 11, 3045-3053.	10.0	42
21	CO Oxidation Mechanisms on CoO _x -Pt Thin Films. Journal of the American Chemical Society, 2020, 142, 8312-8322.	13.7	39
22	Molecular-Scale Structure of Electrode/Electrolyte Interfaces: The Case of Platinum in Aqueous Sulfuric Acid. Journal of the American Chemical Society, 2018, 140, 16237-16244.	13.7	32
23	Environment-Dependent Radiation Damage in Atmospheric Pressure X-ray Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 737-744.	2.6	30
24	Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. Faraday Discussions, 2014, 171, 219-241.	3.2	28
25	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
26	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
27	Structure of Copper-Cobalt Surface Alloys in Equilibrium with Carbon Monoxide Gas. Journal of the American Chemical Society, 2018, 140, 6575-6581.	13.7	23
28	Strong O 2p-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
29	Ta ₃ N ₅ Nanowire Bundles as Visible-Light-Responsive Photoanodes. Chemistry - an Asian Journal, 2013, 8, 2354-2357.	3.3	17
30	Stabilization of a nanoporous NiCu dilute alloy catalyst for non-oxidative ethanol dehydrogenation. Catalysis Science and Technology, 2020, 10, 5207-5217.	4.1	17
31	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
32	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
33	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
34	Advanced Materials and Nanotechnology for Sustainable Energy Development. Journal of Nanotechnology, 2015, 2015, 1-1.	3.4	1
35	Toward Ultrafast In Situ X-Ray Studies of Interfacial Photoelectrochemistry. , 2014, , .		0
36	(Invited) In-Situ /Operando X-Ray Absorption Spectroscopy Technique for the Characterization of Electrode/Electrolyte Interfaces. ECS Meeting Abstracts, 2017, , .	0.0	0