

Chia-Shuo Hsu

List of Publications by Citations

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35
papers

2,332
citations

20
h-index

42
g-index

42
ext. papers

3,306
ext. citations

14.5
avg, IF

5.76
L-index

#	Paper	IF	Citations
35	Atomically dispersed Fe sites catalyze efficient CO electroreduction to CO. <i>Science</i> , 2019 , 364, 1091-1094	33.3	685
34	Operando Unraveling of the Structural and Chemical Stability of P-Substituted CoSe ₂ Electrocatalysts toward Hydrogen and Oxygen Evolution Reactions in Alkaline Electrolyte. <i>ACS Energy Letters</i> , 2019 , 4, 987-994	20.1	208
33	A Cobalt-Iron Double-Atom Catalyst for the Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14190-14199	16.4	203
32	Mechanism of Oxygen Evolution Catalyzed by Cobalt Oxyhydroxide: Cobalt Superoxide Species as a Key Intermediate and Dioxygen Release as a Rate-Determining Step. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11901-11914	16.4	169
31	An Unconventional Iron Nickel Catalyst for the Oxygen Evolution Reaction. <i>ACS Central Science</i> , 2019 , 5, 558-568	16.8	136
30	Ni N as an Active Hydrogen Oxidation Reaction Catalyst in Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7445-7449	16.4	114
29	Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1701686	21.8	95
28	Operando time-resolved X-ray absorption spectroscopy reveals the chemical nature enabling highly selective CO reduction. <i>Nature Communications</i> , 2020 , 11, 3525	17.4	90
27	Edgeless Ag-Pt Bimetallic Nanocages: In Situ Monitor Plasmon-Induced Suppression of Hydrogen Peroxide Formation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2224-2233	16.4	85
26	Valence- and element-dependent water oxidation behaviors: in situ X-ray diffraction, absorption and electrochemical impedance spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8681-8693	3.6	65
25	Identification of Stabilizing High-Valent Active Sites by Operando High-Energy Resolution Fluorescence-Detected X-ray Absorption Spectroscopy for High-Efficiency Water Oxidation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17263-17270	16.4	62
24	Morphology Manipulation of Copper Nanocrystals and Product Selectivity in the Electrocatalytic Reduction of Carbon Dioxide. <i>ACS Catalysis</i> , 2019 , 9, 5217-5222	13.1	60
23	Harnessing Dielectric Confinement on Tin Perovskites to Achieve Emission Quantum Yield up to 21. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10324-10330	16.4	47
22	The synergistic effect of a well-defined Au@Pt core-shell nanostructure toward photocatalytic hydrogen generation: interface engineering to improve the Schottky barrier and hydrogen-evolved kinetics. <i>Chemical Communications</i> , 2016 , 52, 1567-70	5.8	43
21	In Situ Spatially Coherent Identification of Phosphide-Based Catalysts: Crystallographic Latching for Highly Efficient Overall Water Electrolysis. <i>ACS Energy Letters</i> , 2019 , 4, 2813-2820	20.1	41
20	Strongly Coupled Tin-Halide Perovskites to Modulate Light Emission: Tunable 550-640 nm Light Emission (FWHM 36-80 nm) with a Quantum Yield of up to 6.4. <i>Advanced Materials</i> , 2018 , 30, e1706592	24	34
19	Quantitatively Unraveling the Redox Shuttle of Spontaneous Oxidation/Electroreduction of CuO on Silver Nanowires Using in Situ X-ray Absorption Spectroscopy. <i>ACS Central Science</i> , 2019 , 5, 1998-2009	16.8	33

18	Double-atom catalysts as a molecular platform for heterogeneous oxygen evolution electrocatalysis. <i>Nature Energy</i> ,	62.3	28
17	Product-Specific Active Site Motifs of Cu for Electrochemical CO ₂ Reduction. <i>CheM</i> , 2021 , 7, 406-420	16.2	27
16	Chemical distinctions between Stradivari's maple and modern tonewood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 27-32	11.5	23
15	Light-Induced Activation of Adaptive Junction for Efficient Solar-Driven Oxygen Evolution: In Situ Unraveling the Interfacial Metal/Silicon Junction. <i>Advanced Energy Materials</i> , 2019 , 9, 1901308	21.8	18
14	In Situ Identifying the Dynamic Structure behind Activity of Atomically Dispersed Platinum Catalyst toward Hydrogen Evolution Reaction. <i>Small</i> , 2021 , 17, e2005713	11	14
13	A Universal Approach for Controllable Synthesis of n-Specific Layered 2D Perovskite Nanoplates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7866-7872	16.4	10
12	Electronic structure inspired a highly robust electrocatalyst for the oxygen-evolution reaction. <i>Chemical Communications</i> , 2020 , 56, 8071-8074	5.8	8
11	In Situ Creation of Surface-Enhanced Raman Scattering Active Au-AuO Nanostructures through Electrochemical Process for Pigment Detection. <i>ACS Omega</i> , 2018 , 3, 16576-16584	3.9	8
10	The individual role of active sites in bimetallic oxygen evolution reaction catalysts. <i>Dalton Transactions</i> , 2020 , 49, 17505-17510	4.3	7
9	Comprehensively Probing the Contribution of Site Activity and Population of Active Sites toward Heterogeneous Electrocatalysis. <i>ChemCatChem</i> , 2020 , 12, 1926-1933	5.2	4
8	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19144-19154	16.4	4
7	Electrocatalysts: Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction (Adv. Energy Mater. 7/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870032	21.8	2
6	Photocatalysis: Light-Induced Activation of Adaptive Junction for Efficient Solar-Driven Oxygen Evolution: In Situ Unraveling the Interfacial Metal/Silicon Junction (Adv. Energy Mater. 31/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970122	21.8	2
5	A Universal Approach for Controllable Synthesis of n-Specific Layered 2D Perovskite Nanoplates. <i>Angewandte Chemie</i> , 2021 , 133, 7945-7951	3.6	2
4	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie</i> , 2021 , 133, 19293-19303	3.6	2
3	π-Conjugated Organic-Inorganic Hybrid Photoanodes: Revealing the Photochemical Behavior through In Situ X-Ray Absorption Spectroscopy. <i>Chemistry - A European Journal</i> , 2018 , 24, 18419-18423	4.8	1
2	Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution. <i>Small</i> , 2018 , 14, e1704047	11	
1	Nanomaterials: Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution (Small 14/2018). <i>Small</i> , 2018 , 14, 1870061	11	

