

# Sung-Fu Hung

## List of Publications by Year in descending order

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64  
papers

15,555  
citations

53794

45  
h-index

133252

59  
g-index

65  
all docs

65  
docs citations

65  
times ranked

15150  
citing authors

#	ARTICLE	IF	CITATIONS
1	A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation. Nature Communications, 2022, 13, 819.	12.8	83
2	Efficient electrosynthesis of n-propanol from carbon monoxide using a Ag <sup>+</sup> /Ru <sup>+</sup> /Cu catalyst. Nature Energy, 2022, 7, 170-176.	39.5	96
3	Unveiling the Bonding Nature of C3 Intermediates in the CO <sub>2</sub> Reduction Reaction through the Oxygen-Deficient Cu <sub>2</sub> O(110) Surface – A DFT Study. Journal of Physical Chemistry C, 2022, 126, 5502-5512.	3.1	11
4	Ga doping disrupts C-C coupling and promotes methane electroproduction on CuAl catalysts. Chem Catalysis, 2022, 2, 908-916.	6.1	24
5	Low coordination number copper catalysts for electrochemical CO <sub>2</sub> methanation in a membrane electrode assembly. Nature Communications, 2021, 12, 2932.	12.8	97
6	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO <sub>2</sub> Reduction. ACS Catalysis, 2021, 11, 7292-7301.	11.2	51
7	Unraveling the Origin of Sulfur-Doped Fe-N Single-Atom Catalyst for Enhanced Oxygen Reduction Activity: Effect of Iron Spin-State Tuning. Angewandte Chemie, 2021, 133, 25608-25614.	2.0	38
8	Unraveling the Origin of Sulfur-Doped Fe-N Single-Atom Catalyst for Enhanced Oxygen Reduction Activity: Effect of Iron Spin-State Tuning. Angewandte Chemie - International Edition, 2021, 60, 25404-25410.	13.8	177
9	<i>In Situ</i> Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. Nano Letters, 2021, 21, 7753-7760.	9.1	24
10	Ternary Alloys Enable Efficient Production of Methoxylated Chemicals via Selective Electrocatalytic Hydrogenation of Lignin Monomers. Journal of the American Chemical Society, 2021, 143, 17226-17235.	13.7	43
11	Boride-derived oxygen-evolution catalysts. Nature Communications, 2021, 12, 6089.	12.8	51
12	Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst. Angewandte Chemie - International Edition, 2020, 59, 798-803.	13.8	315
13	Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst. Angewandte Chemie, 2020, 132, 808-813.	2.0	33
14	Innentitelbild: Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst (Angew. Chem. 2/2020). Angewandte Chemie, 2020, 132, 518-518.	2.0	1
15	In-situ X-ray techniques for non-noble electrocatalysts. Pure and Applied Chemistry, 2020, 92, 733-749.	1.9	19
16	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. Chem, 2020, 6, 3440-3454.	11.7	231
17	Promoting CO <sub>2</sub> methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. Nature Communications, 2020, 11, 6190.	12.8	93
18	Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. Nature Nanotechnology, 2020, 15, 848-853.	31.5	210

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19	High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. ACS Energy Letters, 2020, 5, 2811-2818.	17.4	106
20	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. Nature Communications, 2020, 11, 4246.	12.8	221
21	Efficient electrically powered CO <sub>2</sub> -to-ethanol via suppression of deoxygenation. Nature Energy, 2020, 5, 478-486.	39.5	363
22	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. Nano Letters, 2020, 20, 4278-4285.	9.1	201
23	Enabling Direct H <sub>2</sub> O <sub>2</sub> Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. Chem, 2020, 6, 658-674.	11.7	418
24	Efficient Methane Electrosynthesis Enabled by Tuning Local CO <sub>2</sub> Availability. Journal of the American Chemical Society, 2020, 142, 3525-3531.	13.7	154
25	Cooperative CO <sub>2</sub> -to-ethanol conversion via enriched intermediates at molecule-metal catalyst interfaces. Nature Catalysis, 2020, 3, 75-82.	34.4	390
26	Electrochemical flow systems enable renewable energy industrial chain of CO <sub>2</sub> reduction. Pure and Applied Chemistry, 2020, 92, 1937-1951.	1.9	8
27	In Situ Spatially Coherent Identification of Phosphide-Based Catalysts: Crystallographic Latching for Highly Efficient Overall Water Electrolysis. ACS Energy Letters, 2019, 4, 2813-2820.	17.4	75
28	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1903909.	21.0	345
29	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO <sub>2</sub> . Nature Chemistry, 2019, 11, 222-228.	13.6	571
30	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. Journal of the American Chemical Society, 2019, 141, 3014-3023.	13.7	337
31	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1900883.	21.0	243
32	Dynamic Evolution of Atomically Dispersed Cu Species for CO <sub>2</sub> Photoreduction to Solar Fuels. ACS Catalysis, 2019, 9, 4824-4833.	11.2	230
33	Quantitatively Unraveling the Redox Shuttle of Spontaneous Oxidation/Electroreduction of CuO on Silver Nanowires Using in Situ X-ray Absorption Spectroscopy. ACS Central Science, 2019, 5, 1998-2009.	11.3	74
34	Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution. Small, 2018, 14, e1704047.	10.0	0
35	Electrocatalysts: Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction (Adv. Energy Mater. 7/2018). Advanced Energy Materials, 2018, 8, 1870032.	19.5	5
36	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. Advanced Materials, 2018, 30, e1707261.	21.0	189

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37	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. <i>Small Methods</i> , 2018, 2, 1800001.	8.6	70
38	Atomically dispersed Ni(i) as the active site for electrochemical CO <sub>2</sub> reduction. <i>Nature Energy</i> , 2018, 3, 140-147.	39.5	1,594
39	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 1441-1445.	3.7	28
40	Nanomaterials: Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution ( <i>Small</i> 14/2018). <i>Small</i> , 2018, 14, 1870061.	10.0	0
41	Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1701686.	19.5	125
42	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.	13.7	92
43	Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. <i>Chemical Society Reviews</i> , 2017, 46, 337-365.	38.1	4,505
44	Identifying the electrocatalytic sites of nickel disulfide in alkaline hydrogen evolution reaction. <i>Nano Energy</i> , 2017, 41, 148-153.	16.0	168
45	In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis. <i>CheM</i> , 2017, 3, 122-133.	11.7	214
46	In situ morphological transformation and investigation of electrocatalytic properties of cobalt oxide nanostructures toward oxygen evolution. <i>CrystEngComm</i> , 2016, 18, 6008-6012.	2.6	21
47	Tuning chemical bonding of MnO <sub>2</sub> through transition-metal doping for enhanced CO oxidation. <i>Journal of Catalysis</i> , 2016, 341, 82-90.	6.2	132
48	In Situ Spectroscopic Identification of $\frac{1}{4}$ -OO Bridging on Spinel Co <sub>3</sub> O <sub>4</sub> Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4847-4853.	4.6	136
49	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. <i>Science Advances</i> , 2016, 2, e1501122.	10.3	1,078
50	Iridium Oxide-Assisted Plasmon-Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. <i>Advanced Energy Materials</i> , 2016, 6, 1501339.	19.5	111
51	Nanostructures: Iridium Oxide-Assisted Plasmon-Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers ( <i>Adv. Energy Mater.</i> 8/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	0
52	In Operando Identification of Geometrical-Site-Dependent Water Oxidation Activity of Spinel Co <sub>3</sub> O <sub>4</sub> . <i>Journal of the American Chemical Society</i> , 2016, 138, 36-39.	13.7	787
53	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, 1567-1570.	4.1	52
54	Light-Induced In Situ Transformation of Metal Clusters to Metal Nanocrystals for Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28105-28109.	8.0	59

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55	One-Dimensional Hybrid Nanostructures for Heterogeneous Photocatalysis and Photoelectrocatalysis. <i>Small</i> , 2015, 11, 2115-2131.	10.0	213
56	TiO <sub>2</sub> Nanotubes: Metal-Cluster-Decorated TiO <sub>2</sub> Nanotube Arrays: A Composite Heterostructure toward Versatile Photocatalytic and Photoelectrochemical Applications ( <i>Small</i> 5/2015). <i>Small</i> , 2015, 11, 553-553.	10.0	5
57	Heterojunction of Zinc Blende/Wurtzite in Zn <sub>1-x</sub> Cd <sub>x</sub> S Solid Solution for Efficient Solar Hydrogen Generation: X-ray Absorption/Diffraction Approaches. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22558-22569.	8.0	74
58	Metal-Cluster-Decorated TiO <sub>2</sub> Nanotube Arrays: A Composite Heterostructure toward Versatile Photocatalytic and Photoelectrochemical Applications. <i>Small</i> , 2015, 11, 554-567.	10.0	237
59	Stable Quantum Dot Photoelectrolysis Cell for Unassisted Visible Light Solar Water Splitting. <i>ACS Nano</i> , 2014, 8, 10403-10413.	14.6	162
60	Spatially branched hierarchical ZnO nanorod-TiO <sub>2</sub> nanotube array heterostructures for versatile photocatalytic and photoelectrocatalytic applications: towards intimate integration of 1D-1D hybrid nanostructures. <i>Nanoscale</i> , 2014, 6, 14950-14961.	5.6	101
61	CdS sensitized vertically aligned single crystal TiO <sub>2</sub> nanorods on transparent conducting glass with improved solar cell efficiency and stability using ZnS passivation layer. <i>Journal of Power Sources</i> , 2013, 233, 236-243.	7.8	46
62	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
63	Operando X-ray absorption spectroscopic studies of the carbon dioxide reduction reaction in a modified flow cell. <i>Catalysis Science and Technology</i> , 0, , .	4.1	5
64	Turn the Trash into Treasure: Egg-White-Derived Single-Atom Electrocatalysts Boost Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	6