

# Sung-Fu Hung

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

9,592  
citations

37  
h-index

65  
g-index

65  
ext. papers

12,460  
ext. citations

16.5  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
60	A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation.. <i>Nature Communications</i> , <b>2022</b> , 13, 819	17.4	15
59	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. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5502-5512 <sup>3.8</sup>		0
58	Ternary Alloys Enable Efficient Production of Methoxylated Chemicals via Selective Electrocatalytic Hydrogenation of Lignin Monomers. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17226-17235	16.4	7
57	Boride-derived oxygen-evolution catalysts. <i>Nature Communications</i> , <b>2021</b> , 12, 6089	17.4	11
56	Low coordination number copper catalysts for electrochemical CO methanation in a membrane electrode assembly. <i>Nature Communications</i> , <b>2021</b> , 12, 2932	17.4	27
55	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 7292-7301	13.1	14
54	Unraveling the Origin of Sulfur-Doped Fe-N-C Single-Atom Catalyst for Enhanced Oxygen Reduction Activity: Effect of Iron Spin-State Tuning. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25404-25410	16.4	20
53	Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 7753-7760	11.5	4
52	Efficient electrically powered CO <sub>2</sub> -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , <b>2020</b> , 5, 478-486	62.3	163
51	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. <i>Nano Letters</i> , <b>2020</b> , 20, 4278-4285	11.5	99
50	Enabling Direct H <sub>2</sub> O <sub>2</sub> Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. <i>Chem</i> , <b>2020</b> , 6, 658-674	16.2	176
49	Efficient Methane Electrosynthesis Enabled by Tuning Local CO Availability. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3525-3531	16.4	65
48	Electrochemical flow systems enable renewable energy industrial chain of CO <sub>2</sub> reduction. <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 1937-1951	2.1	3
47	Cooperative CO <sub>2</sub> -to-ethanol conversion via enriched intermediates at molecule-metal catalyst interfaces. <i>Nature Catalysis</i> , <b>2020</b> , 3, 75-82	36.5	164
46	Elucidating the Electrocatalytic CO Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 798-803	16.4	187
45	Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 808-813	3.6	22
44	Innentitelbild: Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst (Angew. Chem. 2/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 518-518	3.6	1

43	In-situ X-ray techniques for non-noble electrocatalysts. <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 733-749	2.1	6
42	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>CheM</i> , <b>2020</b> , 6, 3440-3454	16.2	79
41	Promoting CO methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. <i>Nature Communications</i> , <b>2020</b> , 11, 6190	17.4	30
40	Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 848-853	28.7	90
39	High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2811-2818	20.1	39
38	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. <i>Nature Communications</i> , <b>2020</b> , 11, 4246	17.4	92
37	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903909	24	142
36	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. <i>Nature Chemistry</i> , <b>2019</b> , 11, 222-228	17.6	337
35	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3014-3023	16.4	172
34	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900883	24	161
33	Dynamic Evolution of Atomically Dispersed Cu Species for CO <sub>2</sub> Photoreduction to Solar Fuels. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4824-4833	13.1	128
32	In Situ Spatially Coherent Identification of Phosphide-Based Catalysts: Crystallographic Latching for Highly Efficient Overall Water Electrolysis. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2813-2820	20.1	41
31	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> , <b>2019</b> , 5, 1998-2009	16.8	33
30	Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution. <i>Small</i> , <b>2018</b> , 14, e1704047	11	
29	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> , <b>2018</b> , 8, 1870032	21.8	2
28	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707261	24	110
27	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. <i>Small Methods</i> , <b>2018</b> , 2, 1800001	12.8	41
26	Atomically dispersed Ni(i) as the active site for electrochemical CO <sub>2</sub> reduction. <i>Nature Energy</i> , <b>2018</b> , 3, 140-147	62.3	1046

25	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 1441-1445	3.9	19
24	Nanomaterials: Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution (Small 14/2018). <i>Small</i> , <b>2018</b> , 14, 1870061	11	
23	Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701686	21.8	95
22	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> , <b>2018</b> , 140, 17263-17270	16.4	62
21	Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 337-365	58.5	3041
20	Identifying the electrocatalytic sites of nickel disulfide in alkaline hydrogen evolution reaction. <i>Nano Energy</i> , <b>2017</b> , 41, 148-153	17.1	133
19	In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis. <i>Chem</i> , <b>2017</b> , 3, 122-133	16.2	150
18	Tuning chemical bonding of MnO <sub>2</sub> through transition-metal doping for enhanced CO oxidation. <i>Journal of Catalysis</i> , <b>2016</b> , 341, 82-90	7.3	100
17	In Situ Spectroscopic Identification of EDO Bridging on Spinel CoO Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4847-4853	6.4	99
16	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> , <b>2016</b> , 2, e1501122	14.3	884
15	Iridium Oxide-Assisted Plasmon-Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501339	21.8	74
14	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> , <b>2016</b> , 138, 36-9	16.4	543
13	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> , <b>2016</b> , 52, 1567-70	5.8	43
12	In situ morphological transformation and investigation of electrocatalytic properties of cobalt oxide nanostructures toward oxygen evolution. <i>CrystEngComm</i> , <b>2016</b> , 18, 6008-6012	3.3	16
11	TiO <sub>2</sub> Nanotubes: Metal-Cluster-Decorated TiO <sub>2</sub> Nanotube Arrays: A Composite Heterostructure toward Versatile Photocatalytic and Photoelectrochemical Applications (Small 5/2015). <i>Small</i> , <b>2015</b> , 11, 553-553	11	5
10	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> , <b>2015</b> , 7, 22558-69	9.5	63
9	Metal-cluster-decorated TiO <sub>2</sub> nanotube arrays: a composite heterostructure toward versatile photocatalytic and photoelectrochemical applications. <i>Small</i> , <b>2015</b> , 11, 554-67	11	209
8	Light-Induced In Situ Transformation of Metal Clusters to Metal Nanocrystals for Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 28105-9	9.5	47

7	One-dimensional hybrid nanostructures for heterogeneous photocatalysis and photoelectrocatalysis. <i>Small</i> , <b>2015</b> , 11, 2115-31	11	183
6	Stable quantum dot photoelectrolysis cell for unassisted visible light solar water splitting. <i>ACS Nano</i> , <b>2014</b> , 8, 10403-13	16.7	147
5	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> , <b>2014</b> , 6, 14950-61	7.7	90
4	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> , <b>2013</b> , 233, 236-243	8.9	44
3	Efficient electrosynthesis of n-propanol from carbon monoxide using a AgRuCu catalyst. <i>Nature Energy</i> ,	62.3	9
2	Unraveling the Origin of Sulfur-doped Fe-N-C Single Atom Catalyst for Enhanced Oxygen Reduction Activity: Effect of Fe-spin State Tuning. <i>Angewandte Chemie</i> ,	3.6	3
1	Operando X-ray absorption spectroscopic studies of the carbon dioxide reduction reaction in a modified flow cell. <i>Catalysis Science and Technology</i> ,	5.5	0