

Sung-Fu Hung

List of Publications by Citations

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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	Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. <i>Chemical Society Reviews</i> , 2017 , 46, 337-365	58.5	3041
59	Atomically dispersed Ni(ii) as the active site for electrochemical CO ₂ reduction. <i>Nature Energy</i> , 2018 , 3, 140-147	62.3	1046
58	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	14.3	884
57	In Operando Identification of Geometrical-Site-Dependent Water Oxidation Activity of Spinel Co ₃ O ₄ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 36-9	16.4	543
56	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. <i>Nature Chemistry</i> , 2019 , 11, 222-228	17.6	337
55	Metal-cluster-decorated TiO ₂ nanotube arrays: a composite heterostructure toward versatile photocatalytic and photoelectrochemical applications. <i>Small</i> , 2015 , 11, 554-67	11	209
54	Elucidating the Electrocatalytic CO Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 798-803	16.4	187
53	One-dimensional hybrid nanostructures for heterogeneous photocatalysis and photoelectrocatalysis. <i>Small</i> , 2015 , 11, 2115-31	11	183
52	Enabling Direct H ₂ O ₂ Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. <i>Chem</i> , 2020 , 6, 658-674	16.2	176
51	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3014-3023	16.4	172
50	Cooperative CO ₂ -to-ethanol conversion via enriched intermediates at molecule-metal catalyst interfaces. <i>Nature Catalysis</i> , 2020 , 3, 75-82	36.5	164
49	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020 , 5, 478-486	62.3	163
48	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1900883	24	161
47	In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis. <i>Chem</i> , 2017 , 3, 122-133	16.2	150
46	Stable quantum dot photoelectrolysis cell for unassisted visible light solar water splitting. <i>ACS Nano</i> , 2014 , 8, 10403-13	16.7	147
45	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1903909	24	142
44	Identifying the electrocatalytic sites of nickel disulfide in alkaline hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 41, 148-153	17.1	133

43	Dynamic Evolution of Atomically Dispersed Cu Species for CO ₂ Photoreduction to Solar Fuels. <i>ACS Catalysis</i> , 2019 , 9, 4824-4833	13.1	128
42	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1707261	24	110
41	Tuning chemical bonding of MnO ₂ through transition-metal doping for enhanced CO oxidation. <i>Journal of Catalysis</i> , 2016 , 341, 82-90	7.3	100
40	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. <i>Nano Letters</i> , 2020 , 20, 4278-4285	11.5	99
39	In Situ Spectroscopic Identification of EDO Bridging on Spinel CoO Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4847-4853	6.4	99
38	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
37	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. <i>Nature Communications</i> , 2020 , 11, 4246	17.4	92
36	Spatially branched hierarchical ZnO nanorod-TiO ₂ nanotube array heterostructures for versatile photocatalytic and photoelectrocatalytic applications: towards intimate integration of 1D-1D hybrid nanostructures. <i>Nanoscale</i> , 2014 , 6, 14950-61	7.7	90
35	Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. <i>Nature Nanotechnology</i> , 2020 , 15, 848-853	28.7	90
34	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>Chem</i> , 2020 , 6, 3440-3454	16.2	79
33	Iridium Oxide-Assisted Plasmon-Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. <i>Advanced Energy Materials</i> , 2016 , 6, 1501339	21.8	74
32	Efficient Methane Electrosynthesis Enabled by Tuning Local CO Availability. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3525-3531	16.4	65
31	Heterojunction of Zinc Blende/Wurtzite in Zn _{1-x} CdxS Solid Solution for Efficient Solar Hydrogen Generation: X-ray Absorption/Diffraction Approaches. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22558-69	9.5	63
30	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
29	Light-Induced In Situ Transformation of Metal Clusters to Metal Nanocrystals for Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28105-9	9.5	47
28	CdS sensitized vertically aligned single crystal TiO ₂ 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	8.9	44
27	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
26	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. <i>Small Methods</i> , 2018 , 2, 1800001	12.8	41

25	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
24	High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. <i>ACS Energy Letters</i> , 2020 , 5, 2811-2818	20.1	39
23	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
22	Promoting CO methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. <i>Nature Communications</i> , 2020 , 11, 6190	17.4	30
21	Low coordination number copper catalysts for electrochemical CO methanation in a membrane electrode assembly. <i>Nature Communications</i> , 2021 , 12, 2932	17.4	27
20	Elucidating the Electrocatalytic CO ₂ Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie</i> , 2020 , 132, 808-813	3.6	22
19	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> , 2021 , 60, 25404-25410	16.4	20
18	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1441-1445	3.9	19
17	In situ morphological transformation and investigation of electrocatalytic properties of cobalt oxide nanostructures toward oxygen evolution. <i>CrystEngComm</i> , 2016 , 18, 6008-6012	3.3	16
16	A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation.. <i>Nature Communications</i> , 2022 , 13, 819	17.4	15
15	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2021 , 11, 7292-7301	13.1	14
14	Boride-derived oxygen-evolution catalysts. <i>Nature Communications</i> , 2021 , 12, 6089	17.4	11
13	Efficient electrosynthesis of n-propanol from carbon monoxide using a AgRuCu catalyst. <i>Nature Energy</i> ,	62.3	9
12	Ternary Alloys Enable Efficient Production of Methoxylated Chemicals via Selective Electrocatalytic Hydrogenation of Lignin Monomers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17226-17235	16.4	7
11	In-situ X-ray techniques for non-noble electrocatalysts. <i>Pure and Applied Chemistry</i> , 2020 , 92, 733-749	2.1	6
10	TiO ₂ Nanotubes: Metal-Cluster-Decorated TiO ₂ Nanotube Arrays: A Composite Heterostructure toward Versatile Photocatalytic and Photoelectrochemical Applications (Small 5/2015). <i>Small</i> , 2015 , 11, 553-553	11	5
9	Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , 2021 , 21, 7753-7760	11.5	4
8	Electrochemical flow systems enable renewable energy industrial chain of CO ₂ reduction. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1937-1951	2.1	3

7	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
6	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
5	Innentitelbild: Elucidating the Electrocatalytic CO ₂ Reduction Reaction over a Model Single-Atom Nickel Catalyst (Angew. Chem. 2/2020). <i>Angewandte Chemie</i> , 2020 , 132, 518-518	3.6	1
4	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
3	Unveiling the Bonding Nature of C ₃ Intermediates in the CO ₂ Reduction Reaction through the Oxygen-Deficient Cu ₂ O(110) Surface-A DFT Study. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5502-5512 ^{3.8}		0
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	