

Fengwang Li

List of Publications by Year in descending order

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82
papers

11,403
citations

34016

52
h-index

60497

81
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84
all docs

84
docs citations

84
times ranked

8669
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ electrolysis to multicarbon products at activities greater than 1 A cm ⁻² . <i>Science</i> , 2020, 367, 661-666.	6.0	860
2	Molecular tuning of CO ₂ -to-ethylene conversion. <i>Nature</i> , 2020, 577, 509-513.	13.7	682
3	Enhanced Nitrate-to-Ammonia Activity on Copper–Nickel Alloys via Tuning of Intermediate Adsorption. <i>Journal of the American Chemical Society</i> , 2020, 142, 5702-5708.	6.6	638
4	CO ₂ electrolysis to multicarbon products in strong acid. <i>Science</i> , 2021, 372, 1074-1078.	6.0	541
5	Hierarchical Mesoporous SnO ₂ Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO ₂ Reduction with High Efficiency and Selectivity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 505-509.	7.2	526
6	Molecular enhancement of heterogeneous CO ₂ reduction. <i>Nature Materials</i> , 2020, 19, 266-276.	13.3	416
7	Cooperative CO ₂ -to-ethanol conversion via enriched intermediates at molecule–metal catalyst interfaces. <i>Nature Catalysis</i> , 2020, 3, 75-82.	16.1	390
8	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020, 5, 478-486.	19.8	363
9	Copper nanocavities confine intermediates for efficient electrosynthesis of C ₃ alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018, 1, 946-951.	16.1	354
10	Binding Site Diversity Promotes CO ₂ Electroreduction to Ethanol. <i>Journal of the American Chemical Society</i> , 2019, 141, 8584-8591.	6.6	338
11	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. <i>Nature Catalysis</i> , 2020, 3, 98-106.	16.1	325
12	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO ₂ . <i>Nature Communications</i> , 2018, 9, 3828.	5.8	279
13	Towards a better Sn: Efficient electrocatalytic reduction of CO ₂ to formate by Sn/SnS ₂ derived from SnS ₂ nanosheets. <i>Nano Energy</i> , 2017, 31, 270-277.	8.2	261
14	Structure-Based Enhanced Capacitance: In Situ Growth of Highly Ordered Polyaniline Nanorods on Reduced Graphene Oxide Patterns. <i>Advanced Functional Materials</i> , 2012, 22, 1284-1290.	7.8	241
15	Constraining CO coverage on copper promotes high-efficiency ethylene electroproduction. <i>Nature Catalysis</i> , 2019, 2, 1124-1131.	16.1	214
16	Hydroxide promotes carbon dioxide electroreduction to ethanol on copper via tuning of adsorbed hydrogen. <i>Nature Communications</i> , 2019, 10, 5814.	5.8	201
17	Chloride-mediated selective electrosynthesis of ethylene and propylene oxides at high current density. <i>Science</i> , 2020, 368, 1228-1233.	6.0	196
18	Electrochemical, spectroscopic and theoretical studies of a simple bifunctional cobalt corrole catalyst for oxygen evolution and hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1883-1893.	1.3	188

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19	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. <i>Nature Catalysis</i> , 2019, 2, 251-258.	16.1	188
20	Unlocking the Electrocatalytic Activity of Antimony for CO ₂ Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14718-14722.	7.2	164
21	Electrochemical maps and movies of the hydrogen evolution reaction on natural crystals of molybdenite (MoS ₂): basal vs. edge plane activity. <i>Chemical Science</i> , 2017, 8, 6583-6593.	3.7	159
22	Cascade CO ₂ electroreduction enables efficient carbonate-free production of ethylene. <i>Joule</i> , 2021, 5, 706-719.	11.7	158
23	Polyethylenimine promoted electrocatalytic reduction of CO ₂ to CO in aqueous medium by graphene-supported amorphous molybdenum sulphide. <i>Energy and Environmental Science</i> , 2016, 9, 216-223.	15.6	156
24	Superconductivity above 30 K in alkali-metal-doped hydrocarbon. <i>Scientific Reports</i> , 2012, 2, 389.	1.6	155
25	Efficient Methane Electrosynthesis Enabled by Tuning Local CO ₂ Availability. <i>Journal of the American Chemical Society</i> , 2020, 142, 3525-3531.	6.6	154
26	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018, 9, 4614.	5.8	153
27	Electrochemical reduction of CO ₂ on defect-rich Bi derived from Bi ₂ S ₃ with enhanced formate selectivity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4714-4720.	5.2	144
28	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO ₂ Reduction Performance. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13283-13287.	7.2	141
29	Recent advances in the nanoengineering of electrocatalysts for CO ₂ reduction. <i>Nanoscale</i> , 2018, 10, 6235-6260.	2.8	139
30	Hierarchical Mesoporous SnO ₂ Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO ₂ Reduction with High Efficiency and Selectivity. <i>Angewandte Chemie</i> , 2017, 129, 520-524.	1.6	136
31	Intermediate Binding Control Using Metal-Organic Frameworks Enhances Electrochemical CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 21513-21521.	6.6	133
32	Electrochemical upgrade of CO ₂ from amine capture solution. <i>Nature Energy</i> , 2021, 6, 46-53.	19.8	129
33	Highly Oriented Polypyrrole Nanotubes for Next-Generation Gas Sensor. <i>Advanced Materials</i> , 2016, 28, 8265-8270.	11.1	128
34	Efficient upgrading of CO to C ₃ fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019, 10, 5186.	5.8	127
35	Tuning OH binding energy enables selective electrochemical oxidation of ethylene to ethylene glycol. <i>Nature Catalysis</i> , 2020, 3, 14-22.	16.1	120
36	High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. <i>ACS Energy Letters</i> , 2020, 5, 2811-2818.	8.8	106

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37	Low coordination number copper catalysts for electrochemical CO ₂ methanation in a membrane electrode assembly. <i>Nature Communications</i> , 2021, 12, 2932.	5.8	97
38	Promoting CO ₂ methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. <i>Nature Communications</i> , 2020, 11, 6190.	5.8	93
39	Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. <i>Nature Communications</i> , 2021, 12, 2808.	5.8	91
40	A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation. <i>Nature Communications</i> , 2022, 13, 819.	5.8	83
41	Facile regrowth of Mg-Fe ₂ O ₃ /P-Fe ₂ O ₃ homojunction photoelectrode for efficient solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13412-13418.	5.2	80
42	Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes. <i>Advanced Functional Materials</i> , 2015, 25, 4601-4606.	7.8	79
43	Quenching of the Electrochemiluminescence of Tris(2,2'-bipyridine)ruthenium(II)/Tri- <i>n</i> -propylamine by Pristine Carbon Nanotube and Its Application to Quantitative Detection of DNA. <i>Analytical Chemistry</i> , 2013, 85, 1711-1718.	3.2	77
44	Porous nitrogen-doped carbon derived from biomass for electrocatalytic reduction of CO ₂ to CO. <i>Electrochimica Acta</i> , 2017, 245, 561-568.	2.6	76
45	Electrochemical Reduction of Carbon Dioxide in a Monoethanolamine Capture Medium. <i>ChemSusChem</i> , 2017, 10, 4109-4118.	3.6	75
46	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. <i>Nature Communications</i> , 2020, 11, 3685.	5.8	72
47	Facile Patterning of Reduced Graphene Oxide Film into Microelectrode Array for Highly Sensitive Sensing. <i>Analytical Chemistry</i> , 2011, 83, 6426-6430.	3.2	63
48	Polyoxometalate-Promoted Electrocatalytic CO ₂ Reduction at Nanostructured Silver in Dimethylformamide. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12690-12697.	4.0	63
49	Stannate derived bimetallic nanoparticles for electrocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7851-7858.	5.2	61
50	Direct Detection of Electron Transfer Reactions Underpinning the Tin-Catalyzed Electrochemical Reduction of CO ₂ using Fourier-Transformed ac Voltammetry. <i>ACS Catalysis</i> , 2017, 7, 4846-4853.	5.5	60
51	Unlocking the Electrocatalytic Activity of Antimony for CO ₂ Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie</i> , 2017, 129, 14910-14914.	1.6	58
52	Facile electrochemical co-deposition of metal (Cu, Pd, Pt, Rh) nanoparticles on reduced graphene oxide for electrocatalytic reduction of nitrate/nitrite. <i>Electrochimica Acta</i> , 2018, 269, 733-741.	2.6	56
53	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO ₂ Reduction Performance. <i>Angewandte Chemie</i> , 2018, 130, 13467-13471.	1.6	42
54	Ultralow-limit gas detection in nano-dumbbell polymer sensor via electrospinning. <i>Nanoscale</i> , 2013, 5, 1803.	2.8	41

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55	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. <i>Advanced Energy Materials</i> , 2018, 8, 1702794.	10.2	41
56	CO ₂ Electroreduction to Methane at Production Rates Exceeding 100 mA/cm ² . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14668-14673.	3.2	41
57	Electrochemical Reduction of CO ₂ at Metal Electrodes in a Distillable Ionic Liquid. <i>ChemSusChem</i> , 2016, 9, 1271-1278.	3.6	37
58	Electrochemical CO ₂ reduction to ethanol: from mechanistic understanding to catalyst design. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12474-12494.	5.2	36
59	Two-Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. <i>ChemSusChem</i> , 2020, 13, 59-77.	3.6	31
60	Reactor design for electrochemical CO ₂ conversion toward large-scale applications. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 27, 100419.	3.2	28
61	Materials and system design for direct electrochemical CO ₂ conversion in capture media. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18785-18792.	5.2	28
62	Dopant-tuned stabilization of intermediates promotes electrosynthesis of valuable C ₃ products. <i>Nature Communications</i> , 2019, 10, 4807.	5.8	26
63	CO ₂ Electroreduction to Formate at a Partial Current Density up to 590 mA mg ⁻¹ via Micrometer-Scale Lateral Structuring of Bismuth Nanosheets. <i>Small</i> , 2021, 17, e21100602.	5.2	25
64	Electrochemical Reduction of CO ₂ with an Oxide-Derived Lead Nano-Coralline Electrode in Dimcarb. <i>ChemElectroChem</i> , 2017, 4, 1402-1410.	1.7	22
65	Fabrication of ultra-fine nanostructures using edge transfer printing. <i>Nanoscale</i> , 2012, 4, 1939.	2.8	21
66	Sustainable Ammonia Synthesis from Nitrogen and Water by One-Step Plasma Catalysis. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	20
67	Gradual-order enhanced stability: a frozen section of electrospun nanofibers for energy storage. <i>Nanoscale</i> , 2015, 7, 8715-8719.	2.8	19
68	Ultra-small Cu nanoparticles embedded in N-doped carbon arrays for electrocatalytic CO ₂ reduction reaction in dimethylformamide. <i>Nano Research</i> , 2018, 11, 3678-3690.	5.8	17
69	Towards Carbon-Neutral Methanol Production from Carbon Dioxide Electroreduction. <i>ChemNanoMat</i> , 2021, 7, 728-736.	1.5	17
70	Electrohydrogenation of Carbon Dioxide using a Ternary Pd/Cu ₂ O-Cu Catalyst. <i>ChemSusChem</i> , 2019, 12, 4471-4479.	3.6	15
71	Oxomolybdate anchored on copper for electrocatalytic hydrogen production over the entire pH range. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 227-234.	10.8	14
72	Bias-Adaptable CO ₂ -to-CO Conversion via Tuning the Binding of Competing Intermediates. <i>Nano Letters</i> , 2021, 21, 8924-8932.	4.5	13

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73	Assessing the economic potential of large-scale carbonate-formation-free CO ₂ electrolysis. <i>Catalysis Science and Technology</i> , 2022, 12, 2912-2919.	2.1	13
74	Size-tunable, highly sensitive microelectrode arrays enabled by polymer pen lithography. <i>Soft Matter</i> , 2017, 13, 3685-3689.	1.2	12
75	Molecular Stabilization of Subnanometer Cu Clusters for Selective CO ₂ Electromethanation. <i>ChemSusChem</i> , 2022, 15, .	3.6	11
76	Tunable metallic-like transport in polypyrrole. <i>Materials Futures</i> , 2022, 1, 011001.	3.1	11
77	Efficient Enzymatic Oxidation of Glucose Mediated by Ferrocene Covalently Attached to Polyethylenimine Stabilized Gold Nanoparticles. <i>Electroanalysis</i> , 2016, 28, 2728-2736.	1.5	10
78	Facile fabrication of regular Au microband electrode arrays for voltammetric detection down to submicromolar level by hydrogel etching. <i>Electrochemistry Communications</i> , 2013, 30, 67-70.	2.3	7
79	Seeing is believing: In-situ visualising dynamic evolution in CO ₂ electrolysis. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100846.	2.5	5
80	Supercapacitors: Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes (<i>Adv. Funct. Mater.</i> 29/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4562-4562.	7.8	3
81	Two-Dimensional Transition Metal Dichalcogenides for Electrocatalytic Energy Conversion Applications. , 0, , .		2
82	Electrocatalytic Reduction of CO ₂ in Ionic Liquid-Based Electrolytes. , 2019, , 1-15.		0