# 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 g-index |
| 84 all docs | 84 docs citations | 84 times ranked | 8669 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sustainable Ammonia Synthesis from Nitrogen and Water by Oneâ€Step Plasma Catalysis. Energy and Environmental Materials, 2023, 6, . | 7.3 | 20 |
| 2 | Seeing is believing: In-situ visualising dynamic evolution in CO2 electrolysis. Current Opinion in Electrochemistry, 2022, 31, 100846. | 2.5 | 5 |
| 3 | Molecular Stabilization of Subâ€Nanometer Cu Clusters for Selective CO<sub>2</sub> Electromethanation. ChemSusChem, 2022, 15, . | 3.6 | 11 |
| 4 | A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation. Nature Communications, 2022, 13, 819. | 5.8 | 83 |
| 5 | Assessing the economic potential of large-scale carbonate-formation-free CO<sub>2</sub> electrolysis. Catalysis Science and Technology, 2022, 12, 2912-2919. | 2.1 | 13 |
| 6 | Tunable metallic-like transport in polypyrrole. Materials Futures, 2022, 1, 011001. | 3.1 | 11 |
| 7 | Reactor design for electrochemical CO2 conversion towardÂlarge-scale applications. Current Opinion in Green and Sustainable Chemistry, 2021, 27, 100419. | 3.2 | 28 |
| 8 | Electrochemical upgrade of CO2 from amine capture solution. Nature Energy, 2021, 6, 46-53. | 19.8 | 129 |
| 9 | Cascade CO2 electroreduction enables efficient carbonate-free production of ethylene. Joule, 2021, 5, 706-719. | 11.7 | 158 |
| 10 | Towards Carbonâ€Neutral Methanol Production from Carbon Dioxide Electroreduction. ChemNanoMat, 2021, 7, 728-736. | 1.5 | 17 |
| 11 | Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. Nature Communications, 2021, 12, 2808. | 5.8 | 91 |
| 12 | Low coordination number copper catalysts for electrochemical CO2 methanation in a membrane electrode assembly. Nature Communications, 2021, 12, 2932. | 5.8 | 97 |
| 13 | CO <sub>2</sub> electrolysis to multicarbon products in strong acid. Science, 2021, 372, 1074-1078. | 6.0 | 541 |
| 14 | CO<sub>2</sub> Electroreduction to Formate at a Partial Current Density up to 590ÂmA mg<sup>â^'1</sup> via Micrometerâ€Scale Lateral Structuring of Bismuth Nanosheets. Small, 2021, 17, e2100602. | 5.2 | 25 |
| 15 | Bias-Adaptable CO<sub>2</sub>-to-CO Conversion via Tuning the Binding of Competing Intermediates. Nano Letters, 2021, 21, 8924-8932. | 4.5 | 13 |
| 16 | Electrochemical CO<sub>2</sub>reduction to ethanol: from mechanistic understanding to catalyst design. Journal of Materials Chemistry A, 2021, 9, 12474-12494. | 5.2 | 36 |
| 17 | Materials and system design for direct electrochemical CO<sub>2</sub> conversion in capture media. Journal of Materials Chemistry A, 2021, 9, 18785-18792. | 5.2 | 28 |
| 18 | Twoâ€Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. ChemSusChem, 2020, 13, 59-77. | 3.6 | 31 |

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|---|---|---|---|
| 19 | Catalyst synthesis under CO2 electroreduction favours faceting and promotes renewable fuels electrosynthesis. Nature Catalysis, 2020, 3, 98-106. | 16.1 | 325 |
| 20 | Tuning OH binding energy enables selective electrochemical oxidation of ethylene to ethylene glycol. Nature Catalysis, 2020, 3, 14-22. | 16.1 | 120 |
| 21 | Promoting CO2 methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. Nature Communications, 2020, 11, 6190. | 5.8 | 93 |
| 22 | Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. Nature Communications, 2020, 11, 3685. | 5.8 | 72 |
| 23 | High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. ACS Energy Letters, 2020, 5, 2811-2818. | 8.8 | 106 |
| 24 | CO<sub>2</sub> Electroreduction to Methane at Production Rates Exceeding 100 mA/cm<sup>2</sup>. ACS Sustainable Chemistry and Engineering, 2020, 8, 14668-14673. | 3.2 | 41 |
| 25 | Intermediate Binding Control Using Metalâ€“Organic Frameworks Enhances Electrochemical CO<sub>2</sub> Reduction. Journal of the American Chemical Society, 2020, 142, 21513-21521. | 6.6 | 133 |
| 26 | Efficient electrically powered CO2-to-ethanol via suppression of deoxygenation. Nature Energy, 2020, 5, 478-486. | 19.8 | 363 |
| 27 | Chloride-mediated selective electrosynthesis of ethylene and propylene oxides at high current density. Science, 2020, 368, 1228-1233. | 6.0 | 196 |
| 28 | CO <sub>2</sub> electrolysis to multicarbon products at activities greater than 1 A cm <sup>â^'2</sup>. Science, 2020, 367, 661-666. | 6.0 | 860 |
| 29 | Molecular enhancement of heterogeneous CO2 reduction. Nature Materials, 2020, 19, 266-276. | 13.3 | 416 |
| 30 | Enhanced Nitrate-to-Ammonia Activity on Copperâ€“Nickel Alloys via Tuning of Intermediate Adsorption. Journal of the American Chemical Society, 2020, 142, 5702-5708. | 6.6 | 638 |
| 31 | Molecular tuning of CO2-to-ethylene conversion. Nature, 2020, 577, 509-513. | 13.7 | 682 |
| 32 | Efficient Methane Electrosynthesis Enabled by Tuning Local CO<sub>2</sub> Availability. Journal of the American Chemical Society, 2020, 142, 3525-3531. | 6.6 | 154 |
| 33 | Cooperative CO2-to-ethanol conversion via enriched intermediates at moleculeâ€“metal catalyst interfaces. Nature Catalysis, 2020, 3, 75-82. | 16.1 | 390 |
| 34 | Electrohydrogenation of Carbon Dioxide using a Ternary Pd/Cu<sub>2</sub>Oâ€“Cu Catalyst. ChemSusChem, 2019, 12, 4471-4479. | 3.6 | 15 |
| 35 | Dopant-tuned stabilization of intermediates promotes electrosynthesis of valuable C3 products. Nature Communications, 2019, 10, 4807. | 5.8 | 26 |
| 36 | Binding Site Diversity Promotes CO<sub>2</sub> Electroreduction to Ethanol. Journal of the American Chemical Society, 2019, 141, 8584-8591. | 6.6 | 338 |

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|---|---|---|---|
| 37 | Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. Nature Catalysis, 2019, 2, 251-258. | 16.1 | 188 |
| 38 | Oxomolybdate anchored on copper for electrocatalytic hydrogen production over the entire pH range. Applied Catalysis B: Environmental, 2019, 249, 227-234. | 10.8 | 14 |
| 39 | Hydroxide promotes carbon dioxide electroreduction to ethanol on copper via tuning of adsorbed hydrogen. Nature Communications, 2019, 10, 5814. | 5.8 | 201 |
| 40 | Efficient upgrading of CO to C3 fuel using asymmetric C-C coupling active sites. Nature Communications, 2019, 10, 5186. | 5.8 | 127 |
| 41 | Constraining CO coverage on copper promotes high-efficiency ethylene electroproduction. Nature Catalysis, 2019, 2, 1124-1131. | 16.1 | 214 |
| 42 | Electrocatalytic Reduction of CO2 in Ionic Liquid-Based Electrolytes. , 2019, , 1-15. | | 0 |
| 43 | Recent advances in the nanoengineering of electrocatalysts for CO<sub>2</sub>reduction. Nanoscale, 2018, 10, 6235-6260. | 2.8 | 139 |
| 44 | Facile electrochemical co-deposition of metal (Cu, Pd, Pt, Rh) nanoparticles on reduced graphene oxide for electrocatalytic reduction of nitrate/nitrite. Electrochimica Acta, 2018, 269, 733-741. | 2.6 | 56 |
| 45 | Electrochemical reduction of CO<sub>2</sub>on defect-rich Bi derived from Bi<sub>2</sub>S<sub>3</sub>with enhanced formate selectivity. Journal of Materials Chemistry A, 2018, 6, 4714-4720. | 5.2 | 144 |
| 46 | Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. Advanced Energy Materials, 2018, 8, 1702794. | 10.2 | 41 |
| 47 | Stannate derived bimetallic nanoparticles for electrocatalytic CO<sub>2</sub> reduction. Journal of Materials Chemistry A, 2018, 6, 7851-7858. | 5.2 | 61 |
| 48 | Polyoxometalate-Promoted Electrocatalytic CO<sub>2</sub> Reduction at Nanostructured Silver in Dimethylformamide. ACS Applied Materials & Interfaces, 2018, 10, 12690-12697. | 4.0 | 63 |
| 49 | Ultra-small Cu nanoparticles embedded in N-doped carbon arrays for electrocatalytic CO2 reduction reaction in dimethylformamide. Nano Research, 2018, 11, 3678-3690. | 5.8 | 17 |
| 50 | Copper adparticle enabled selective electrosynthesis of n-propanol. Nature Communications, 2018, 9, 4614. | 5.8 | 153 |
| 51 | Copper nanocavities confine intermediates for efficient electrosynthesis of C3 alcohol fuels from carbon monoxide. Nature Catalysis, 2018, 1, 946-951. | 16.1 | 354 |
| 52 | Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO2. Nature Communications, 2018, 9, 3828. | 5.8 | 279 |
| 53 | Controllable Synthesis of Fewâ€Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO<sub>2</sub> Reduction Performance. Angewandte Chemie - International Edition, 2018, 57, 13283-13287. | 7.2 | 141 |
| 54 | Controllable Synthesis of Fewâ€Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO<sub>2</sub> Reduction Performance. Angewandte Chemie, 2018, 130, 13467-13471. | 1.6 | 42 |

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|---|---|---|---|
| 55 | Facile regrowth of Mg-Fe<sub>2</sub>O<sub>3</sub>/P-Fe<sub>2</sub>O<sub>3</sub> homojunction photoelectrode for efficient solar water oxidation. Journal of Materials Chemistry A, 2018, 6, 13412-13418. | 5.2 | 80 |
| 56 | Electrochemical Reduction of CO<sub>2</sub> with an Oxideâ€Derived Lead Nanoâ€Coralline Electrode in Dimcarb. ChemElectroChem, 2017, 4, 1402-1410. | 1.7 | 22 |
| 57 | Size-tunable, highly sensitive microelectrode arrays enabled by polymer pen lithography. Soft Matter, 2017, 13, 3685-3689. | 1.2 | 12 |
| 58 | Porous nitrogenâ€“doped carbon derived from biomass for electrocatalytic reduction of CO2 to CO. Electrochimica Acta, 2017, 245, 561-568. | 2.6 | 76 |
| 59 | Direct Detection of Electron Transfer Reactions Underpinning the Tin-Catalyzed Electrochemical Reduction of CO<sub>2</sub> using Fourier-Transformed ac Voltammetry. ACS Catalysis, 2017, 7, 4846-4853. | 5.5 | 60 |
| 60 | Hierarchical Mesoporous SnO<sub>2</sub> Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO<sub>2</sub> Reduction with High Efficiency and Selectivity. Angewandte Chemie, 2017, 129, 520-524. | 1.6 | 136 |
| 61 | Hierarchical Mesoporous SnO<sub>2</sub> Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO<sub>2</sub> Reduction with High Efficiency and Selectivity. Angewandte Chemie - International Edition, 2017, 56, 505-509. | 7.2 | 526 |
| 62 | Unlocking the Electrocatalytic Activity of Antimony for CO<sub>2</sub> Reduction by Twoâ€Dimensional Engineering of the Bulk Material. Angewandte Chemie - International Edition, 2017, 56, 14718-14722. | 7.2 | 164 |
| 63 | Unlocking the Electrocatalytic Activity of Antimony for CO<sub>2</sub> Reduction by Twoâ€Dimensional Engineering of the Bulk Material. Angewandte Chemie, 2017, 129, 14910-14914. | 1.6 | 58 |
| 64 | Electrochemical maps and movies of the hydrogen evolution reaction on natural crystals of molybdenite (MoS<sub>2</sub>): basal vs. edge plane activity. Chemical Science, 2017, 8, 6583-6593. | 3.7 | 159 |
| 65 | Electrochemical Reduction of Carbon Dioxide in a Monoethanolamine Capture Medium. ChemSusChem, 2017, 10, 4109-4118. | 3.6 | 75 |
| 66 | Towards a better Sn: Efficient electrocatalytic reduction of CO 2 to formate by Sn/SnS 2 derived from SnS 2 nanosheets. Nano Energy, 2017, 31, 270-277. | 8.2 | 261 |
| 67 | Electrochemical Reduction of CO<sub>2</sub> at Metal Electrodes in a Distillable Ionic Liquid. ChemSusChem, 2016, 9, 1271-1278. | 3.6 | 37 |
| 68 | Highâ€Oriented Polypyrrole Nanotubes for Nextâ€Generation Gas Sensor. Advanced Materials, 2016, 28, 8265-8270. | 11.1 | 128 |
| 69 | Efficient Enzymatic Oxidation of Glucose Mediated by Ferrocene Covalently Attached to Polyethylenimine Stabilized Gold Nanoparticles. Electroanalysis, 2016, 28, 2728-2736. | 1.5 | 10 |
| 70 | Polyethylenimine promoted electrocatalytic reduction of CO<sub>2</sub>to CO in aqueous medium by graphene-supported amorphous molybdenum sulphide. Energy and Environmental Science, 2016, 9, 216-223. | 15.6 | 156 |
| 71 | Supercapacitors: Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes (Adv. Funct. Mater. 29/2015). Advanced Functional Materials, 2015, 25, 4562-4562. | 7.8 | 3 |
| 72 | Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes. Advanced Functional Materials, 2015, 25, 4601-4606. | 7.8 | 79 |

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|---|---|---|---|
| 73 | Gradual-order enhanced stability: a frozen section of electrospun nanofibers for energy storage. Nanoscale, 2015, 7, 8715-8719. | 2.8 | 19 |
| 74 | Electrochemical, spectroscopic and theoretical studies of a simple bifunctional cobalt corrole catalyst for oxygen evolution and hydrogen production. Physical Chemistry Chemical Physics, 2014, 16, 1883-1893. | 1.3 | 188 |
| 75 | Quenching of the Electrochemiluminescence of Tris(2,2â€²-bipyridine)ruthenium(II)/Tri-n-propylamine by Pristine Carbon Nanotube and Its Application to Quantitative Detection of DNA. Analytical Chemistry, 2013, 85, 1711-1718. | 3.2 | 77 |
| 76 | Facile fabrication of regular Au microband electrode arrays for voltammetric detection down to submicromolar level by hydrogel etching. Electrochemistry Communications, 2013, 30, 67-70. | 2.3 | 7 |
| 77 | Ultralow-limit gas detection in nano-dumbbell polymer sensor via electrospinning. Nanoscale, 2013, 5, 1803. | 2.8 | 41 |
| 78 | Fabrication of ultra-fine nanostructures using edge transfer printing. Nanoscale, 2012, 4, 1939. | 2.8 | 21 |
| 79 | Superconductivity above 30 K in alkali-metal-doped hydrocarbon. Scientific Reports, 2012, 2, 389. | 1.6 | 155 |
| 80 | Structureâ€Based Enhanced Capacitance: In Situ Growth of Highly Ordered Polyaniline Nanorods on Reduced Graphene Oxide Patterns. Advanced Functional Materials, 2012, 22, 1284-1290. | 7.8 | 241 |
| 81 | Facile Patterning of Reduced Graphene Oxide Film into Microelectrode Array for Highly Sensitive Sensing. Analytical Chemistry, 2011, 83, 6426-6430. | 3.2 | 63 |
| 82 | Twoâ€Dimensional Transition Metal Dichalcogenides for Electrocatalytic Energy Conversion Applications. , 0, , . | | 2 |