Dan Ren

List of Publications by Year
in descending order

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47 papers	4,808 citations	201385 27 h-index	253896 43 g-index
47 all docs	47 docs citations	47 times ranked	5194 citing authors

#	Article	IF	Citations
1	Selective Electrochemical Reduction of Carbon Dioxide to Ethylene and Ethanol on Copper(I) Oxide Catalysts. ACS Catalysis, 2015, 5, 2814-2821.	5.5	741
2	Tuning the Selectivity of Carbon Dioxide Electroreduction toward Ethanol on Oxide-Derived Cu_xZn Catalysts. ACS Catalysis, 2016, 6, 8239-8247.	5.5	539
3	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. Advanced Materials, 2020, 32, e1907757.	11.1	303
4	Stable and selective electrochemical reduction of carbon dioxide to ethylene on copper mesocrystals. Catalysis Science and Technology, 2015, 5, 161-168.	2.1	292
5	Selective Câ€“C Coupling in Carbon Dioxide Electroreduction via Efficient Spillover of Intermediates As Supported by Operando Raman Spectroscopy. Journal of the American Chemical Society, 2019, 141, 18704-18714.	6.6	270
6	The effects of currents and potentials on the selectivities of copper toward carbon dioxide electroreduction. Nature Communications, 2018, 9, 925.	5.8	214
7	Mechanistic Insights into the Enhanced Activity and Stability of Agglomerated Cu Nanocrystals for the Electrochemical Reduction of Carbon Dioxide to n-Propanol. Journal of Physical Chemistry Letters, 2016, 7, 20-24.	2.1	211
8	Investigating the Role of Copper Oxide in Electrochemical CO₂ Reduction in Real Time. ACS Applied Materials & Interfaces, 2018, 10, 8574-8584.	4.0	207
9	Photoelectrocatalytic arene Câ€“H amination. Nature Catalysis, 2019, 2, 366-373.	16.1	193
10	On the Role of Sulfur for the Selective Electrochemical Reduction of CO₂ to Formate on CuS_x Catalysts. ACS Applied Materials & Interfaces, 2018, 10, 28572-28581.	4.0	157
11	Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. Angewandte Chemie - International Edition, 2019, 58, 15036-15040.	7.2	150
12	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 19980-19991.	6.6	145
13	Cu2O photocathodes with band-tail states assisted hole transport for standalone solar water splitting. Nature Communications, 2020, 11, 318.	5.8	139
14	Understanding the Heterogeneous Electrocatalytic Reduction of Carbon Dioxide on Oxideâ€Derived Catalysts. ChemElectroChem, 2018, 5, 219-237.	1.7	126
15	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. Journal of the American Chemical Society, 2019, 141, 17659-17669.	6.6	104
16	Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. Nature Communications, 2021, 12, 2808.	5.8	91
17	Efficient and stable noble-metal-free catalyst for acidic water oxidation. Nature Communications, 2022, 13, 2294.	5.8	89
18	Solar Water Splitting with Perovskite/Silicon Tandem Cell and TiC-Supported Pt Nanocluster Electrocatalyst. Joule, 2019, 3, 2930-2941.	11.7	85

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19	A universal co-solvent dilution strategy enables facile and cost-effective fabrication of perovskite photovoltaics. Nature Communications, 2022, 13, 89.	5.8	77
20	Multimodal hostâ€“guest complexation for efficient and stable perovskite photovoltaics. Nature Communications, 2021, 12, 3383.	5.8	72
21	Gold-in-copper at low *CO coverage enables efficient electromethanation of CO2. Nature Communications, 2021, 12, 3387.	5.8	70
22	Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie - International Edition, 2020, 59, 4691-4697.	7.2	61
23	Sequential catalysis enables enhanced Câ€“C coupling towards multi-carbon alkenes and alcohols in carbon dioxide reduction: a study on bifunctional Cu/Au electrocatalysts. Faraday Discussions, 2019, 215, 282-296.	1.6	56
24	Efficient and Stable Evolution of Oxygen Using Pulse-Electrodeposited Ir/Ni Oxide Catalyst in Fe-Spiked KOH Electrolyte. ACS Applied Materials & Interfaces, 2016, 8, 15985-15990.	4.0	46
25	Combined Precursor Engineering and Grain Anchoring Leading to MAâ€Free, Phaseâ€Pure, and Stable Îâ€Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 27299-27306.	7.2	46
26	Continuous Production of Ethylene from Carbon Dioxide and Water Using Intermittent Sunlight. ACS Sustainable Chemistry and Engineering, 2017, 5, 9191-9199.	3.2	39
27	Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. Angewandte Chemie, 2019, 131, 15178-15182.	1.6	33
28	Practices for the collection and reporting of electrocatalytic performance and mechanistic information for the CO₂reduction reaction. Catalysis Science and Technology, 2017, 7, 5820-5832.	2.1	29
29	Benzylammoniumâ€Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. Advanced Functional Materials, 2021, 31, 2101163.	7.8	28
30	SnS Quantum Dots as Hole Transporter of Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 3822-3829.	2.5	26
31	Spectroelectrochemical and Chemical Evidence of Surface Passivation at Zinc Ferrite (ZnFe₂O₄) Photoanodes for Solar Water Oxidation. Advanced Functional Materials, 2021, 31, 2010081.	7.8	26
32	New Insights into the Interface of Electrochemical Flow Cells for Carbon Dioxide Reduction to Ethylene. Journal of Physical Chemistry Letters, 2021, 12, 7583-7589.	2.1	21
33	A hybrid bulk-heterojunction photoanode for direct solar-to-chemical conversion. Energy and Environmental Science, 2021, 14, 3141-3151.	15.6	20
34	Transparency and Morphology Control of Cu₂O Photocathodes via an in Situ Electroconversion. ACS Energy Letters, 2022, 7, 1618-1625.	8.8	18
35	Microâ€Electrode with Fast Mass Transport for Enhancing Selectivity of Carbonaceous Products in Electrochemical CO₂ Reduction. Advanced Functional Materials, 2021, 31, 2103966.	7.8	16
36	Revisiting the Impact of Morphology and Oxidation State of Cu on CO₂ Reduction Using Electrochemical Flow Cell. Journal of Physical Chemistry Letters, 2022, 13, 345-351.	2.1	13

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37	Solar Water Splitting Using Earthâ€Abundant Electrocatalysts Driven by Highâ€Efficiency Perovskite Solar Cells. ChemSusChem, 2022, 15, .	3.6	12
38	Combined precursor engineering and grain anchoring leading to MAâ€free, phaseâ€pure and stable Î±â€formamidinium lead iodide perovskites for efficient solar cells. Angewandte Chemie, 0, , .	1.6	11
39	Realizing Highâ€Efficiency Perovskite Solar Cells by Passivating Tripleâ€Cation Perovskite Films. Solar Rrl, 2022, 6, .	3.1	9
40	Bimetallic Electrocatalysts for Carbon Dioxide Reduction. Chimia, 2019, 73, 928.	0.3	7
41	Carbazol-phenyl-phenothiazine-based sensitizers for dye-sensitized solar cells. Journal of Materials Chemistry A, 2021, 9, 26311-26322.	5.2	6
42	Thiocyanate-Mediated Dimensionality Transformation of Low-Dimensional Perovskites for Photovoltaics. Chemistry of Materials, 2022, 34, 6331-6338.	3.2	5
43	Electrocatalysts for the Selective Reduction of Carbon Dioxide to Useful Products. Chimia, 2015, 69, 131.	0.3	4
44	Understanding the Electrochemical Reduction of Carbon Dioxide at Copper Surfaces. ACS Symposium Series, 2019, , 209-223.	0.5	1
45	Guanineâ€Stabilized Formamidinium Lead Iodide Perovskites. Angewandte Chemie, 2020, 132, 4721-4727.	1.6	0
46	Electrochemical Carbon Dioxide Reduction on Cu-Zn Bimetallic Catalysts with Enhanced Ethanol Selectivity. ECS Meeting Abstracts, 2017, , .	0.0	0
47	Photoelectrochemical Oxygen Evolution on Mesoporous Hematite Films Prepared from Maghemite Nanoparticles. Journal of the Electrochemical Society, 2022, 169, 056522.	1.3	0