Yi Xu

List of Publications by Year
in descending order

34	4,268	218677	395702
papers	citations	26 h-index	33 g-index

34	34	34	2863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular tuning of CO2-to-ethylene conversion. Nature, 2020, 577, 509-513.	27.8	682
2	CO ₂ electrolysis to multicarbon products in strong acid. Science, 2021, 372, 1074-1078.	12.6	541
3	Cooperative CO2-to-ethanol conversion via enriched intermediates at moleculeâ€“metal catalyst interfaces. Nature Catalysis, 2020, 3, 75-82.	34.4	390
4	Continuous Carbon Dioxide Electroreduction to Concentrated Multi-carbon Products Using a Membrane Electrode Assembly. Joule, 2019, 3, 2777-2791.	24.0	350
5	Catalyst synthesis under CO2 electroreduction favours faceting and promotes renewable fuels electrosynthesis. Nature Catalysis, 2020, 3, 98-106.	34.4	325
6	Constraining CO coverage on copper promotes high-efficiency ethylene electroproduction. Nature Catalysis, 2019, 2, 1124-1131.	34.4	214
7	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. Nature Catalysis, 2019, 2, 251-258.	34.4	188
8	Self-Cleaning CO₂ Reduction Systems: Unsteady Electrochemical Forcing Enables Stability. ACS Energy Letters, 2021, 6, 809-815.	17.4	159
9	Single Pass CO₂ Conversion Exceeding 85% in the Electrosynthesis of Multicarbon Products via Local CO₂ Regeneration. ACS Energy Letters, 2021, 6, 2952-2959.	17.4	155
10	Efficient Methane Electrosynthesis Enabled by Tuning Local CO₂ Availability. Journal of the American Chemical Society, 2020, 142, 3525-3531.	13.7	154
11	Oxygen-tolerant electroproduction of C₂ products from simulated flue gas. Energy and Environmental Science, 2020, 13, 554-561.	30.8	113
12	Low coordination number copper catalysts for electrochemical CO2 methanation in a membrane electrode assembly. Nature Communications, 2021, 12, 2932.	12.8	97
13	Promoting CO2 methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. Nature Communications, 2020, 11, 6190.	12.8	93
14	Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. Nature Communications, 2021, 12, 2808.	12.8	91
15	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. Nature Communications, 2020, 11, 3685.	12.8	72
16	Gold-in-copper at low *CO coverage enables efficient electromethanation of CO2. Nature Communications, 2021, 12, 3387.	12.8	70
17	Capillary Condensation in 8 nm Deep Channels. Journal of Physical Chemistry Letters, 2018, 9, 497-503.	4.6	65
18	Efficient electrocatalytic conversion of carbon dioxide in a low-resistance pressurized alkaline electrolyzer. Applied Energy, 2020, 261, 114305.	10.1	65

#	Article	IF	Citations
19	A microchanneled solid electrolyte for carbon-efficient CO2 electrolysis. Joule, 2022, 6, 1333-1343.	24.0	51
20	Disposable silicon-glass microfluidic devices: precise, robust and cheap. Lab on A Chip, 2018, 18, 3872-3880.	6.0	47
21	Nanoscale Phase Measurement for the Shale Challenge: Multicomponent Fluids in Multiscale Volumes. Langmuir, 2018, 34, 9927-9935.	3.5	45
22	Exploring Anomalous Fluid Behavior at the Nanoscale: Direct Visualization and Quantification via Nanofluidic Devices. Accounts of Chemical Research, 2020, 53, 347-357.	15.6	43
23	Direct Visualization of Evaporation in a Two-Dimensional Nanoporous Model for Unconventional Natural Gas. ACS Applied Nano Materials, 2018, 1, 1332-1338.	5.0	40
24	Redox-mediated electrosynthesis of ethylene oxide from CO2 and water. Nature Catalysis, 2022, 5, 185-192.	34.4	40
25	Reducing the crossover of carbonate and liquid products during carbon dioxide electroreduction. Cell Reports Physical Science, 2021, 2, 100522.	5.6	38
26	Electroosmotic flow steers neutral products and enables concentrated ethanol electroproduction from CO2. Joule, 2021, 5, 2742-2753.	24.0	37
27	Direct Measurement of the Fluid Phase Diagram. Analytical Chemistry, 2016, 88, 6986-6989.	6.5	25
28	Direct visualization of fluid dynamics in sub-10 nm nanochannels. Nanoscale, 2017, 9, 9556-9561.	5.6	22
29	Bubble Point Pressures of Hydrocarbon Mixtures in Multiscale Volumes from Density Functional Theory. Langmuir, 2018, 34, 14058-14068.	3.5	22
30	Concentrated Ethanol Electrosynthesis from CO₂ via a Porous Hydrophobic Adlayer. ACS Applied Materials & Interfaces, 2022, 14, 4155-4162.	8.0	15
31	The Full Pressureâ€“Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. Angewandte Chemie - International Edition, 2017, 56, 13962-13967.	13.8	12
32	The Full Pressureâ€“Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. Angewandte Chemie, 2017, 129, 14150-14155.	2.0	6
33	Frontispiz: The Full Pressureâ€“Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. Angewandte Chemie, 2017, 129, .	2.0	1
34	Frontispiece: The Full Pressureâ€“Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. Angewandte Chemie - International Edition, 2017, 56, .	13.8	0