

Colin P O'brien

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,913
citations

430874

18
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

2022
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentrated Ethanol Electrosynthesis from CO ₂ via a Porous Hydrophobic Adlayer. ACS Applied Materials & Interfaces, 2022, 14, 4155-4162.	8.0	15
2	Efficient electrosynthesis of n-propanol from carbon monoxide using a Ag ⁺ /Cu catalyst. Nature Energy, 2022, 7, 170-176.	39.5	96
3	Carbon-efficient carbon dioxide electrolyzers. Nature Sustainability, 2022, 5, 563-573.	23.7	95
4	A microchanneled solid electrolyte for carbon-efficient CO ₂ electrolysis. Joule, 2022, 6, 1333-1343.	24.0	51
5	Bipolar membrane electrolyzers enable high single-pass CO ₂ electroreduction to multicarbon products. Nature Communications, 2022, 13, .	12.8	81
6	Self-Cleaning CO ₂ Reduction Systems: Unsteady Electrochemical Forcing Enables Stability. ACS Energy Letters, 2021, 6, 809-815.	17.4	159
7	Designing anion exchange membranes for CO ₂ electrolyzers. Nature Energy, 2021, 6, 339-348.	39.5	209
8	Low coordination number copper catalysts for electrochemical CO ₂ methanation in a membrane electrode assembly. Nature Communications, 2021, 12, 2932.	12.8	97
9	Single Pass CO ₂ Conversion Exceeding 85% in the Electrosynthesis of Multicarbon Products via Local CO ₂ Regeneration. ACS Energy Letters, 2021, 6, 2952-2959.	17.4	155
10	Reducing the crossover of carbonate and liquid products during carbon dioxide electroreduction. Cell Reports Physical Science, 2021, 2, 100522.	5.6	38
11	In Situ Formation of Nano Ni ²⁺ /Co Oxyhydroxide Enables Water Oxidation Electrocatalysts Durable at High Current Densities. Advanced Materials, 2021, 33, e2103812.	21.0	78
12	Electroosmotic flow steers neutral products and enables concentrated ethanol electroproduction from CO ₂ . Joule, 2021, 5, 2742-2753.	24.0	37
13	Downstream of the CO ₂ Electrolyzer: Assessing the Energy Intensity of Product Separation. ACS Energy Letters, 2021, 6, 4405-4412.	17.4	53
14	Oxygen-tolerant electroproduction of C ₂ products from simulated flue gas. Energy and Environmental Science, 2020, 13, 554-561.	30.8	113
15	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. Nature Energy, 2020, 5, 478-486.	39.5	363
16	Molecular tuning of CO ₂ -to-ethylene conversion. Nature, 2020, 577, 509-513.	27.8	682
17	Dopant-tuned stabilization of intermediates promotes electrosynthesis of valuable C ₃ products. Nature Communications, 2019, 10, 4807.	12.8	26
18	Continuous Carbon Dioxide Electroreduction to Concentrated Multi-carbon Products Using a Membrane Electrode Assembly. Joule, 2019, 3, 2777-2791.	24.0	350

#	ARTICLE	IF	CITATIONS
19	Carbon Dioxide Electroreduction to Multi-Carbon Products Using a Large-Scale Membrane Electrode Assembly. ECS Meeting Abstracts, 2019, , .	0.0	0
20	Stable, High-Rate CO ₂ Electroreduction to Multi-Carbon Products in a Membrane Electrode Assembly System. ECS Meeting Abstracts, 2019, , .	0.0	0
21	Combined high alkalinity and pressurization enable efficient CO ₂ electroreduction to CO. Energy and Environmental Science, 2018, 11, 2531-2539.	30.8	214