

Advances and challenges in understanding the electrocatalytic reduction of carbon dioxide to fuels

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The influence of inorganic anions on photocatalytic CO ₂ reduction. <i>Catalysis Science and Technology</i> , 2020, 10, 959-966.	2.1	9
2	Mechanistic Understanding of CO ₂ Reduction Reaction (CO ₂ RR) Toward Multicarbon Products by Heterogeneous Copper-Based Catalysts. <i>ACS Catalysis</i> , 2020, 10, 1754-1768.	5.5	309
3	Electrocatalytic reduction of carbon dioxide: opportunities with heterogeneous molecular catalysts. <i>Energy and Environmental Science</i> , 2020, 13, 374-403.	15.6	303
4	Atomic Structure Modification for Electrochemical Nitrogen Reduction to Ammonia. <i>Advanced Energy Materials</i> , 2020, 10, 1903172.	10.2	110
5	Addressing the Interfacial Properties for CO Electroreduction on Cu with Cyclic Voltammetry. <i>ACS Energy Letters</i> , 2020, 5, 130-135.	8.8	19
6	Homogeneous and heterogeneous molecular catalysts for electrochemical reduction of carbon dioxide. <i>RSC Advances</i> , 2020, 10, 38013-38023.	1.7	24
7	A metal-organic framework/polymer derived catalyst containing single-atom nickel species for electrocatalysis. <i>Chemical Science</i> , 2020, 11, 10991-10997.	3.7	32
8	Recent advances in surface x-ray diffraction and the potential for determining structure-sensitivity relations in single-crystal electrocatalysis. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 162-173.	2.5	18
9	Three-Dimensional Cathodes for Electrochemical Reduction of CO ₂ : From Macro- to Nano-Engineering. <i>Nanomaterials</i> , 2020, 10, 1884.	1.9	23
10	Towards molecular understanding of local chemical environment effects in electro- and photocatalytic CO ₂ reduction. <i>Nature Catalysis</i> , 2020, 3, 775-786.	16.1	385
11	Electrocatalytic synthesis of organic carbonates. <i>Chemical Communications</i> , 2020, 56, 13082-13092.	2.2	12
12	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 18971-18980.	6.6	111
13	Regulating the coordination structure of metal single atoms for efficient electrocatalytic CO ₂ reduction. <i>Energy and Environmental Science</i> , 2020, 13, 4609-4624.	15.6	188
14	Beyond d Orbitals: Steering the Selectivity of Electrochemical CO ₂ Reduction via Hybridized sp Band of Sulfur-Incorporated Porous Cd Architectures with Dual Collaborative Sites. <i>Advanced Energy Materials</i> , 2020, 10, 2002499.	10.2	20
15	<i>In-Situ</i> Surface Reconstruction of InN Nanosheets for Efficient CO ₂ Electroreduction into Formate. <i>Nano Letters</i> , 2020, 20, 8229-8235.	4.5	55
16	Solar-Driven Electrochemical CO ₂ Reduction with Heterogeneous Catalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2002652.	10.2	67
17	Elucidating the Structure of the Cu-Alkaline Electrochemical Interface with the Laser-Induced Temperature Jump Method. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23253-23259.	1.5	24
18	Gas diffusion electrode design for electrochemical carbon dioxide reduction. <i>Chemical Society Reviews</i> , 2020, 49, 7488-7504.	18.7	213

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19	Recent Progress in the Development of Screening Methods to Identify Electrode Materials for the Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 2005060.	7.8	49
20	Probing CO ₂ Reduction Pathways for Copper Catalysis Using an Ionic Liquid as a Chemical Trapping Agent. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18095-18102.	7.2	56
21	Electrochemical Fabrication and Reactivation of Nanoporous Gold with Abundant Surface Steps for CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 8860-8869.	5.5	36
22	Conversion of CO ₂ by non-thermal inductively-coupled plasma catalysis. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 243-251.	0.6	6
23	Recent Advances in Electrode Materials for Electrochemical CO ₂ Reduction. <i>ACS Symposium Series</i> , 2020, , 49-91.	0.5	1
24	Nanostructured Cobalt-Based Electrocatalysts for CO ₂ Reduction: Recent Progress, Challenges, and Perspectives. <i>Small</i> , 2020, 16, e2004158.	5.2	45
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28	Highly Selective CO ₂ Electroreduction to CO on Cu-Co Bimetallic Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12561-12567.	3.2	33
29	Bi-Based Metal-Organic Framework Derived Leafy Bismuth Nanosheets for Carbon Dioxide Electroreduction. <i>Advanced Energy Materials</i> , 2020, 10, 2001709.	10.2	210
30	Tuning water reduction through controlled nanoconfinement within an organic liquid matrix. <i>Nature Catalysis</i> , 2020, 3, 656-663.	16.1	91
31	Recent Advances in MOF-Derived Single Atom Catalysts for Electrochemical Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2001561.	10.2	265
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35	Highly Efficient and Selective CO ₂ Electroreduction to HCOOH on Sn Particle-Decorated Polymeric Carbon Nitride. <i>ChemSusChem</i> , 2020, 13, 6442-6448.	3.6	30
36	Mixed quantum-classical treatment of electron transfer at electrocatalytic interfaces: Theoretical framework and conceptual analysis. <i>Journal of Chemical Physics</i> , 2020, 153, 164707.	1.2	14

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38	Scalable, Durable, and Recyclable Metal-Free Catalysts for Highly Efficient Conversion of CO ₂ to Cyclic Carbonates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23291-23298.	7.2	99
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140	Recent Advances in Electrochemical CO ₂ Reduction on Indiumâ€™Based Catalysts. <i>ChemCatChem</i> , 2021, 13, 514-531.	1.8	50
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