Designing materials for electrochemical carbon dioxide

Nature Catalysis

2, 648-658

DOI: 10.1038/s41929-019-0306-7

Citation Report

#	Article	IF	Citations
1	Carbon Dioxide Recycling Makes Waves. Joule, 2019, 3, 1814-1816.	11.7	14
2	Reduction of carbon dioxide on photoexcited nanoparticles of VIII group metals. Nanoscale, 2019, 11, 16723-16732.	2.8	35
3	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Coreâ€"Porous-Cu-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. Journal of the American Chemical Society, 2019, 141, 14093-14097.	6.6	139
4	A solid advance in electrolytes. Nature Energy, 2019, 4, 728-729.	19.8	9
5	Co-feeding copper catalysts couple carbon. Nature Nanotechnology, 2019, 14, 1002-1003.	15.6	5
6	Nanostructured Carbon Nitrides for CO₂ Capture and Conversion. Advanced Materials, 2020, 32, e1904635.	11.1	188
7	Twoâ€Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. ChemSusChem, 2020, 13, 59-77.	3.6	31
8	Hierarchically micro- and meso-porous Fe-N4O-doped carbon as robust electrocatalyst for CO2 reduction. Applied Catalysis B: Environmental, 2020, 266, 118630.	10.8	74
9	Electrocatalytic reduction of carbon dioxide: opportunities with heterogeneous molecular catalysts. Energy and Environmental Science, 2020, 13, 374-403.	15.6	303
10	Metalâ€"CO₂ Batteries at the Crossroad to Practical Energy Storage and CO₂ Recycle. Advanced Functional Materials, 2020, 30, 1908285.	7.8	103
11	The Role of CO2 as a Mild Oxidant in Oxidation and Dehydrogenation over Catalysts: A Review. Catalysts, 2020, 10, 1075.	1.6	14
12	Cu-Ag Tandem Catalysts for High-Rate CO2 Electrolysis toward Multicarbons. Joule, 2020, 4, 1688-1699.	11.7	239
13	Assessing the Influence of Supercritical Carbon Dioxide on the Electrochemical Reduction to Formic Acid Using Carbon-Supported Copper Catalysts. ACS Catalysis, 2020, 10, 12783-12789.	5.5	22
14	Beyond d Orbits: Steering the Selectivity of Electrochemical CO₂ Reduction via Hybridized sp Band of Sulfurâ€Incorporated Porous Cd Architectures with Dual Collaborative Sites. Advanced Energy Materials, 2020, 10, 2002499.	10.2	20
15	Gas diffusion electrode design for electrochemical carbon dioxide reduction. Chemical Society Reviews, 2020, 49, 7488-7504.	18.7	213
16	Recent Progress on Two-dimensional Electrocatalysis. Chemical Research in Chinese Universities, 2020, 36, 611-621.	1.3	140
17	An Artificial Electrode/Electrolyte Interface for CO₂ Electroreduction by Cation Surfactant Selfâ€Assembly. Angewandte Chemie - International Edition, 2020, 59, 19095-19101.	7.2	71
18	An Artificial Electrode/Electrolyte Interface for CO₂ Electroreduction by Cation Surfactant Selfâ€Assembly. Angewandte Chemie, 2020, 132, 19257-19263.	1.6	45

#	Article	IF	Citations
19	Growth Dynamics and Processes Governing the Stability of Electrodeposited Size-Controlled Cubic Cu Catalysts. Journal of Physical Chemistry C, 2020, 124, 26908-26915.	1.5	24
20	Nanostructured Cobaltâ€Based Electrocatalysts for CO₂Reduction: Recent Progress, Challenges, and Perspectives. Small, 2020, 16, e2004158.	5.2	45
21	Atomic-scale evidence for highly selective electrocatalytic Nâˆ’N coupling on metallic MoS ₂. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31631-31638.	3.3	18
22	Conversion of Bicarbonate to Formate in an Electrochemical Flow Reactor. ACS Energy Letters, 2020, 5, 2624-2630.	8.8	84
23	Oxygen induced promotion of electrochemical reduction of CO2 via co-electrolysis. Nature Communications, 2020, 11, 3844.	5.8	102
24	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO₂ Reduction. Angewandte Chemie, 2020, 132, 21677-21682.	1.6	37
25	Highly Selective CO₂ Electroreduction to CO on Cuâ€“Co Bimetallic Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 12561-12567.	3.2	33
26	Biâ€Based Metalâ€Organic Framework Derived Leafy Bismuth Nanosheets for Carbon Dioxide Electroreduction. Advanced Energy Materials, 2020, 10, 2001709.	10.2	210
27	Fundamentals of Electrochemical CO₂ Reduction on Single-Metal-Atom Catalysts. ACS Catalysis, 2020, 10, 10068-10095.	5.5	161
28	Synergetic role of charge transfer and strain engineering in improving the catalysis of Pd single-atom-thick motifs stabilized on a defect-free MoS₂/Ag(Au)(111) heterostructure. Journal of Materials Chemistry A, 2020, 8, 17238-17247.	5.2	13
29	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 21493-21498.	7.2	97
30	An artificial photosynthetic system with CO₂-reducing solar-to-fuel efficiency exceeding 20%. Journal of Materials Chemistry A, 2020, 8, 18310-18317.	5.2	31
31	Semiconductor nanocrystals for small molecule activation<i>via</i>artificial photosynthesis. Chemical Society Reviews, 2020, 49, 9028-9056.	18.7	127
32	A molten calcium carbonate mediator for the electrochemical conversion and absorption of carbon dioxide. Green Chemistry, 2020, 22, 7946-7954.	4.6	26
33	Evidence of Local Corrosion of Bimetallic Cuâ€“Sn Catalysts and Its Effects on the Selectivity of Electrochemical CO₂ Reduction. ACS Applied Energy Materials, 2020, 3, 10568-10577.	2.5	28
34	Electrocatalytic CO₂ Reduction over Cu₃P Nanoparticles Generated via a Molecular Precursor Route. ACS Applied Energy Materials, 2020, 3, 10435-10446.	2.5	16
35	Confinement of Ionic Liquids at Single-Ni-Sites Boost Electroreduction of CO₂ in Aqueous Electrolytes. ACS Catalysis, 2020, 10, 13171-13178.	5.5	54
36	Electrocatalyst design for aprotic Liâ€“CO₂ batteries. Energy and Environmental Science, 2020, 13, 4717-4737.	15.6	65

#	Article	IF	Citations
37	Enhancing CO 2 Electroreduction to Methane with a Cobalt Phthalocyanine and Zincâ€"Nitrogenâ€"Carbon Tandem Catalyst. Angewandte Chemie, 2020, 132, 22594-22599.	1.6	12
38	Enhancing CO₂ Electroreduction to Methane with a Cobalt Phthalocyanine and Zincâ€"Nitrogenâ€"Carbon Tandem Catalyst. Angewandte Chemie - International Edition, 2020, 59, 22408-22413.	7.2	145
39	<i>In situ</i>X-ray diffraction and X-ray absorption spectroscopy of electrocatalysts for energy conversion reactions. Journal of Materials Chemistry A, 2020, 8, 19079-19112.	5.2	98
40	Organocatalytic Trapping of Elusive Carbon Dioxide Based Heterocycles by a Kinetically Controlled Cascade Process. Angewandte Chemie, 2020, 132, 18604-18609.	1.6	7
41	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. Accounts of Chemical Research, 2020, 53, 2106-2118.	7.6	75
42	Thermal Transformation of Molecular Ni²⁺â€"N₄ Sites for Enhanced CO₂ Electroreduction Activity. ACS Catalysis, 2020, 10, 10920-10931.	5.5	81
43	Density functional theory and 3D-RISM-KH molecular theory of solvation studies of CO2 reduction on Cu-, Cu2O-, Fe-, and Fe3O4-based nanocatalysts. Journal of Molecular Modeling, 2020, 26, 267.	0.8	4
44	<i>Operando</i> characterization techniques for electrocatalysis. Energy and Environmental Science, 2020, 13, 3748-3779.	15.6	159
45	Anion exchange-induced single-molecule dispersion of cobalt porphyrins in a cationic porous organic polymer for enhanced electrochemical CO₂ reduction <i>via</i> secondary-coordination sphere interactions. Journal of Materials Chemistry A, 2020, 8, 18677-18686.	5.2	20
46	Operando Spectroscopic Investigation of a Boron-Doped CuO Catalyst and Its Role in Selective Electrochemical Câ€"C Coupling. ACS Applied Energy Materials, 2020, 3, 11343-11349.	2.5	28
47	Enhanced Electrochemical CO₂ Reduction of Cu@Cu<i>_x</i>O Nanoparticles Decorated on 3D Vertical Graphene with Intrinsic sp³â€‘type Defect. Advanced Functional Materials, 2020, 30, 1910118.	7.8	54
48	Dendritic Ag/Pd Alloy Nanostructure Arrays for Electrochemical CO 2 Reduction. ChemElectroChem, 2020, 7, 2608-2613.	1.7	12
49	Electrochemical CO2 reduction reaction on cost-effective oxide-derived copper and transition metalâ€"nitrogenâ€"carbon catalysts. Current Opinion in Electrochemistry, 2020, 23, 65-73.	2.5	40
50	Reticular chemistry in electrochemical carbon dioxide reduction. Science China Materials, 2020, 63, 1113-1141.	3.5	30
51	Efficient CO2 conversion to formic acid in a novel microbial photoelectrochemical cell using a visible-light responsive Co3O4 nanorod-arrayed photocathode. Applied Catalysis B: Environmental, 2020, 276, 119102.	10.8	33
52	Is More CO2 Beneficial for Making Multi-carbon Products?. Joule, 2020, 4, 980-982.	11.7	3
53	Metalâ€"Organic Layers Leading to Atomically Thin Bismuthene for Efficient Carbon Dioxide Electroreduction to Liquid Fuel. Angewandte Chemie, 2020, 132, 15124-15130.	1.6	57
54	Metalâ€"Organic Layers Leading to Atomically Thin Bismuthene for Efficient Carbon Dioxide Electroreduction to Liquid Fuel. Angewandte Chemie - International Edition, 2020, 59, 15014-15020.	7.2	276

#	Article	IF	Citations
55	Ammonia Thermal Treatment toward Topological Defects in Porous Carbon for Enhanced Carbon Dioxide Electroreduction. Advanced Materials, 2020, 32, e2001300.	11.1	130
56	Designing CO₂ reduction electrode materials by morphology and interface engineering. Energy and Environmental Science, 2020, 13, 2275-2309.	15.6	251
57	Simultaneous power generation and CO₂valorization by aqueous Alâ€"CO₂batteries using nanostructured Bi₂S₃as the cathode electrocatalyst. Journal of Materials Chemistry A, 2020, 8, 12385-12390.	5.2	27
58	Thermodynamically driven self-formation of copper-embedded nitrogen-doped carbon nanofiber catalysts for a cascade electroreduction of carbon dioxide to ethylene. Journal of Materials Chemistry A, 2020, 8, 11632-11641.	5.2	42
59	P-block metal-based (Sn, In, Bi, Pb) electrocatalysts for selective reduction of CO2 to formate. APL Materials, 2020, 8, .	2.2	93
60	Mesoporous PdAg Nanospheres for Stable Electrochemical CO₂ Reduction to Formate. Advanced Materials, 2020, 32, e2000992.	11.1	153
61	3D Nanostructures for the Next Generation of Highâ€Performance Nanodevices for Electrochemical Energy Conversion and Storage. Advanced Energy Materials, 2020, 10, 2001460.	10.2	106
62	Metal-free sites with multidimensional structure modifications for selective electrochemical CO2 reduction. Nano Today, 2020, 33, 100891.	6.2	23
63	Supercritical CO₂-constructed intralayer [Bi₂O₂]²⁺ structural distortion for enhanced CO₂ electroreduction. Journal of Materials Chemistry A, 2020, 8, 13320-13327.	5.2	29
64	Electroreduction of CO2 in Ionic Liquid-Based Electrolytes. Innovation(China), 2020, 1, 100016.	5.2	70
65	Rational Design of Nanocatalysts with Nonmetal Species Modification for Electrochemical CO₂ Reduction. Advanced Energy Materials, 2020, 10, 2000588.	10.2	53
66	An NADH-Inspired Redox Mediator Strategy to Promote Second-Sphere Electron and Proton Transfer for Cooperative Electrochemical CO₂ Reduction Catalyzed by Iron Porphyrin. Inorganic Chemistry, 2020, 59, 9270-9278.	1.9	30
67	Ethylene Selectivity in Electrocatalytic CO₂ Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. Journal of the American Chemical Society, 2020, 142, 12760-12766.	6.6	183
68	Organicâ€"Inorganic Hybrid Nanomaterials for Electrocatalytic CO₂ Reduction. Small, 2020, 16, e2001847.	5.2	79
69	Tuning adsorption strength of CO2 and its intermediates on tin oxide-based electrocatalyst for efficient CO2 reduction towards carbonaceous products. Applied Catalysis B: Environmental, 2020, 277, 119252.	10.8	50
70	Covalent Triazine Framework Confined Copper Catalysts for Selective Electrochemical CO₂ Reduction: Operando Diagnosis of Active Sites. ACS Catalysis, 2020, 10, 4534-4542.	5.5	112
71	Photosynthetic semiconductor biohybrids for solar-driven biocatalysis. Nature Catalysis, 2020, 3, 245-255.	16.1	237
72	Strainâ€Enhanced Metallic Intermixing in Shapeâ€Controlled Multilayered Coreâ€"Shell Nanostructures: Toward Shaped Intermetallics. Angewandte Chemie - International Edition, 2020, 59, 10574-10580.	7.2	22

#	Article	IF	Citations
73	Two-dimensional metalâ€"organic framework nanosheets: synthetic methodologies and electrocatalytic applications. Journal of Materials Chemistry A, 2020, 8, 15271-15301.	5.2	79
74	Electrochemical Conversion of CO₂ to CO into a Microchannel Reactor System in the Case of Aqueous Electrolyte. Industrial & Engineering Chemistry Research, 2020, 59, 5664-5674.	1.8	16
75	Strainâ€Enhanced Metallic Intermixing in Shapeâ€Controlled Multilayered Coreâ€"Shell Nanostructures: Toward Shaped Intermetallics. Angewandte Chemie, 2020, 132, 10661-10667.	1.6	2
76	Efficient Ammonia Electrosynthesis from Nitrate on Strained Ruthenium Nanoclusters. Journal of the American Chemical Society, 2020, 142, 7036-7046.	6.6	542
77	Metalâ€"Organic Frameworkâ€Derived Carbon Nanorods Encapsulating Bismuth Oxides for Rapid and Selective CO₂ Electroreduction to Formate. Angewandte Chemie - International Edition, 2020, 59, 10807-10813.	7.2	251
78	How Size Matters: Electronic, Cooperative, and Geometric Effect in Perovskite-Supported Copper Catalysts for CO₂ Reduction. ACS Catalysis, 2020, 10, 4092-4102.	5.5	46
79	Unveiling hydrocerussite as an electrochemically stable active phase for efficient carbon dioxide electroreduction to formate. Nature Communications, 2020, 11, 3415.	5.8	121
80	Heterogeneous Singleâ€Atom Catalysts for Electrochemical CO₂ Reduction Reaction. Advanced Materials, 2020, 32, e2001848.	11.1	366
81	Organocatalytic Trapping of Elusive Carbon Dioxide Based Heterocycles by a Kinetically Controlled Cascade Process. Angewandte Chemie - International Edition, 2020, 59, 18446-18451.	7.2	26
82	Abioticâ€"Biological Hybrid Systems for CO2 Conversion to Value-Added Chemicals and Fuels. Transactions of Tianjin University, 2020, 26, 237-247.	3.3	15
83	Advanced Ni-Nx-C single-site catalysts for CO2 electroreduction to CO based on hierarchical carbon nanocages and S-doping. Nano Research, 2020, 13, 2777-2783.	5.8	46
84	Correlating Oxidation State and Surface Area to Activity from <i>Operando</i> Studies of Copper CO Electroreduction Catalysts in a Gas-Fed Device. ACS Catalysis, 2020, 10, 8000-8011.	5.5	37
85	Surface Nitrogen-Injection Engineering for High Formation Rate of CO₂ Reduction to Formate. Nano Letters, 2020, 20, 6097-6103.	4.5	71
86	An overview of Cu-based heterogeneous electrocatalysts for CO₂reduction. Journal of Materials Chemistry A, 2020, 8, 4700-4734.	5.2	150
87	Manifesto for the routine use of NMR for the liquid product analysis of aqueous CO₂reduction: from comprehensive chemical shift data to formaldehyde quantification in water. Dalton Transactions, 2020, 49, 4257-4265.	1.6	45
88	Nanoscale Infrared Spectroscopy and Imaging of Catalytic Reactions in Cu₂O Crystals. ACS Photonics, 2020, 7, 576-580.	3.2	11
89	Cooperation of oxygen vacancies and 2D ultrathin structure promoting CO2 photoreduction performance of Bi4Ti3O12. Science Bulletin, 2020, 65, 934-943.	4.3	151
90	Heterogeneous electrocatalytic reduction of CO₂ promoted by secondary coordination sphere effects. New Journal of Chemistry, 2020, 44, 4246-4252.	1.4	20

#	Article	IF	Citations
91	Investigating the Origin of Enhanced C₂₊ Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO₂ Electroreduction. Journal of the American Chemical Society, 2020, 142, 4213-4222.	6.6	236
92	In Situ Reconstruction of a Hierarchical Snâ€Cu/SnO_{<i>x</i>}Core/Shell Catalyst for Highâ€Performance CO₂Electroreduction. Angewandte Chemie - International Edition, 2020, 59, 4814-4821.	7.2	270
93	Current progress in electrocatalytic carbon dioxide reduction to fuels on heterogeneous catalysts. Journal of Materials Chemistry A, 2020, 8, 3541-3562.	5.2	204
94	Efficient electrochemical reduction of carbon dioxide into ethylene boosted by copper vacancies on stepped cuprous oxide. Journal of CO2 Utilization, 2020, 38, 125-131.	3.3	19
95	In Situ Reconstruction of a Hierarchical Snâ€Cu/SnO_{<i>x</i>}Core/Shell Catalyst for Highâ€Performance CO₂Electroreduction. Angewandte Chemie, 2020, 132, 4844-4851.	1.6	29
96	Singleâ€Atom Ironâ€Nitrogen Catalytic Site with Graphitic Nitrogen for Efficient Electroreduction of CO₂. ChemistrySelect, 2020, 5, 1282-1287.	0.7	15
97	Microbial electrosynthesis from CO2: Challenges, opportunities and perspectives in the context of circular bioeconomy. Bioresource Technology, 2020, 302, 122863.	4.8	188
98	Hydrogen Stabilized RhPdH 2D Bimetallene Nanosheets for Efficient Alkaline Hydrogen Evolution. Journal of the American Chemical Society, 2020, 142, 3645-3651.	6.6	152
99	CO2 transformation to multicarbon products by photocatalysis and electrocatalysis. Materials Today Advances, 2020, 6, 100071.	2.5	55
100	Metalâ€“Organic Frameworkâ€Derived Carbon Nanorods Encapsulating Bismuth Oxides for Rapid and Selective CO₂ Electroreduction to Formate. Angewandte Chemie, 2020, 132, 10899-10905.	1.6	56
101	2â€Aminobenzenethiolâ€Functionalized Silverâ€Decorated Nanoporous Silicon Photoelectrodes for Selective CO 2 Reduction. Angewandte Chemie, 2020, 132, 11559-11566.	1.6	6
102	2â€Aminobenzenethiolâ€Functionalized Silverâ€Decorated Nanoporous Silicon Photoelectrodes for Selective CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 11462-11469.	7.2	24
103	Close-Packed Nanowire-Bacteria Hybrids for Efficient Solar-Driven CO2 Fixation. Joule, 2020, 4, 800-811.	11.7	124
104	Photocathode engineering for efficient photoelectrochemical CO2 reduction. Materials Today Nano, 2020, 10, 100077.	2.3	52
105	Integrated design for electrocatalytic carbon dioxide reduction. Catalysis Science and Technology, 2020, 10, 2711-2720.	2.1	92
106	Electrochemically deposited Sn catalysts with dense tips on a gas diffusion electrode for electrochemical CO₂ reduction. Journal of Materials Chemistry A, 2020, 8, 9032-9038.	5.2	41
107	Atomically Dispersed Ironâ€“Nitrogen Sites on Hierarchically Mesoporous Carbon Nanotube and Graphene Nanoribbon Networks for CO₂ Reduction. ACS Nano, 2020, 14, 5506-5516.	7.3	125
108	Activation of C2H4 reaction pathways in electrochemical CO2 reduction under low CO2 partial pressure. Applied Catalysis B: Environmental, 2020, 272, 119049.	10.8	50

#	Article	IF	Citations
109	Surface charging activated mechanism change: A computational study of O, CO, and CO2 interactions on Ag electrodes. Journal of Energy Chemistry, 2020, 50, 307-313.	7.1	8
110	Tuning local carbon active sites saturability of graphitic carbon nitride to boost CO2 electroreduction towards CH4. Nano Energy, 2020, 73, 104833.	8.2	35
111	Construction of cobalt-copper bimetallic oxide heterogeneous nanotubes for high-efficient and low-overpotential electrochemical CO2 reduction. Journal of Energy Chemistry, 2021, 54, 1-6.	7.1	26
112	Breaking the Linear Scaling Relationship by Compositional and Structural Crafting of Ternary Cuâ€“Au/Ag Nanoframes for Electrocatalytic Ethylene Production. Angewandte Chemie - International Edition, 2021, 60, 2508-2518.	7.2	92
113	Breaking the Linear Scaling Relationship by Compositional and Structural Crafting of Ternary Cuâ€“Au/Ag Nanoframes for Electrocatalytic Ethylene Production. Angewandte Chemie, 2021, 133, 2538-2548.	1.6	15
114	Product-Specific Active Site Motifs of Cu for Electrochemical CO2 Reduction. CheM, 2021, 7, 406-420.	5.8	72
115	First principles studies of mononuclear and dinuclear Pacman complexes for electrocatalytic reduction of CO2. Catalysis Science and Technology, 2021, 11, 637-645.	2.1	3
116	Gas-phase CO₂ electroreduction over Snâ€“Cu hollow fibers. Materials Advances, 2021, 2, 241-247.	2.6	8
117	Alloyed Palladiumâ€“Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. Advanced Materials, 2021, 33, e2005821.	11.1	73
118	Noble-Metal Nanoframes and Their Catalytic Applications. Chemical Reviews, 2021, 121, 796-833.	23.0	115
119	The lab-to-fab journey of copper-based electrocatalysts for multi-carbon production: Advances, challenges, and opportunities. Nano Today, 2021, 36, 101028.	6.2	25
120	Selective CO₂ reduction towards a single upgraded product: a minireview on multi-elemental copper-free electrocatalysts. Catalysis Science and Technology, 2021, 11, 416-424.	2.1	8
121	The role of atomic carbon in directing electrochemical CO₍₂₎ reduction to multicarbon products. Energy and Environmental Science, 2021, 14, 473-482.	15.6	62
122	Recent Advances in Strategies for Improving the Performance of CO₂ Reduction Reaction on Single Atom Catalysts. Small Science, 2021, 1, 2000028.	5.8	57
123	<i>Operando</i> spectroscopy of nanoscopic metal/covalent organic framework electrocatalysts. Nanoscale, 2021, 13, 1507-1514.	2.8	20
124	Recent advances in innovative strategies for the CO₂ electroreduction reaction. Energy and Environmental Science, 2021, 14, 765-780.	15.6	188
125	Photocatalytic and electrocatalytic <scp>CO₂</scp> conversion: from fundamental principles to design of catalysts. Journal of Chemical Technology and Biotechnology, 2021, 96, 1161-1175.	1.6	32
126	NiSn Atomic Pair on an Integrated Electrode for Synergistic Electrocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 7382-7388.	7.2	137

#	Article	IF	Citations
127	Catalytic conversion of C1 molecules under mild conditions. EnergyChem, 2021, 3, 100050.	10.1	42
128	Recent Progress of Snâ€Based Derivative Catalysts for Electrochemical Reduction of CO₂. Energy Technology, 2021, 9, .	1.8	42
129	Recent progress in structural modulation of metal nanomaterials for electrocatalytic CO2 reduction. Rare Metals, 2021, 40, 1412-1430.	3.6	61
130	Sizeâ€Dependent Activity and Selectivity of Atomicâ€Level Copper Nanoclusters during CO/CO₂ Electroreduction. Angewandte Chemie, 2021, 133, 470-476.	1.6	16
131	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. Chemical Reviews, 2021, 121, 736-795.	23.0	269
132	Sizeâ€Dependent Activity and Selectivity of Atomicâ€Level Copper Nanoclusters during CO/CO₂ Electroreduction. Angewandte Chemie - International Edition, 2021, 60, 466-472.	7.2	130
133	Carbon Nanomaterials Synthesis-Based Recycling. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 419-442.	1.4	0
134	Selective electrochemical reduction of CO₂ to formic acid in a gas phase reactor with by-product recirculation. Sustainable Energy and Fuels, 2021, 5, 1867-1873.	2.5	5
135	New strategies for economically feasible CO₂ electroreduction using a porous membrane in zero-gap configuration. Journal of Materials Chemistry A, 2021, 9, 16169-16177.	5.2	14
136	Multiâ€Scale Design of Metalâ€"Organic Frameworkâ€Derived Materials for Energy Electrocatalysis. Advanced Energy Materials, 2022, 12, 2003410.	10.2	81
137	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. Nature Communications, 2021, 12, 136.	5.8	288
138	Bromine anion mediated epitaxial growth of coreâ€"shell Pd@Ag towards efficient electrochemical CO₂ reduction. Materials Chemistry Frontiers, 2021, 5, 4327-4333.	3.2	12
139	The role of electrode wettability in electrochemical reduction of carbon dioxide. Journal of Materials Chemistry A, 2021, 9, 19369-19409.	5.2	95
140	Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. Energy and Environmental Science, 2021, 14, 1959-2008.	15.6	243
141	Hydrophobic Copper Interfaces Boost Electroreduction of Carbon Dioxide to Ethylene in Water. ACS Catalysis, 2021, 11, 958-966.	5.5	120
142	Recent progresses in the mechanism, performance, and fabrication methods of metal-derived nanomaterials for efficient electrochemical CO₂reduction. Journal of Materials Chemistry A, 2021, 9, 4558-4588.	5.2	8
143	Graphdiyne anchored ultrafine Ag nanoparticles for highly efficient and solvent-free catalysis of CO₂cycloaddition. Materials Chemistry Frontiers, 2021, 5, 6052-6060.	3.2	12
144	Wet-chemical synthesis of two-dimensional metal nanomaterials for electrocatalysis. National Science Review, 2022, 9, nwab142.	4.6	41

#	Article	IF	Citations
145	Structure Sensitivity in Single-Atom Catalysis toward CO₂ Electroreduction. ACS Energy Letters, 2021, 6, 713-727.	8.8	149
146	Enhanced selectivity and stability towards CO₂ reduction of sub-5 nm Au NPs derived from supramolecular assembly. Chemical Communications, 2021, 57, 2491-2494.	2.2	6
147	Porphyrin-based frameworks for oxygen electrocatalysis and catalytic reduction of carbon dioxide. Chemical Society Reviews, 2021, 50, 2540-2581.	18.7	249
148	Selective and High Current CO₂ Electro-Reduction to Multicarbon Products in Near-Neutral KCl Electrolytes. Journal of the American Chemical Society, 2021, 143, 3245-3255.	6.6	108
149	Application of Scanning Tunneling Microscopy in Electrocatalysis and Electrochemistry. Electrochemical Energy Reviews, 2021, 4, 249-268.	13.1	26
150	Ionic liquid-based electrolytes for CO2 electroreduction and CO2 electroorganic transformation. National Science Review, 2022, 9, nwab022.	4.6	58
151	Carbon-Based Materials for Electrochemical Reduction of CO₂ to C₂₊ Oxygenates: Recent Progress and Remaining Challenges. ACS Catalysis, 2021, 11, 2076-2097.	5.5	116
152	Selectively Converting Carbon Dioxide to Syngas over Intermetallic AuCu Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 2609-2615.	3.2	22
153	Interface engineering of Mo8/Cu heterostructures toward highly selective electrochemical reduction of carbon dioxide into acetate. Applied Catalysis B: Environmental, 2021, 281, 119426.	10.8	82
154	Syngas Production from Electrochemical CO₂ Reduction on Copper Oxide Electrodes in Aqueous Solution. ChemElectroChem, 2021, 8, 592-602.	1.7	14
155	Inversely Tuning the CO₂Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. Angewandte Chemie - International Edition, 2021, 60, 7602-7606.	7.2	81
156	NiSn Atomic Pair on an Integrated Electrode for Synergistic Electrocatalytic CO₂ Reduction. Angewandte Chemie, 2021, 133, 7458-7464.	1.6	25
157	Inversely Tuning the CO₂Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. Angewandte Chemie, 2021, 133, 7680-7684.	1.6	15
158	Metal-support interactions in designing noble metal-based catalysts for electrochemical CO2 reduction: Recent advances and future perspectives. Nano Research, 2021, 14, 3795-3809.	5.8	80
159	Bâ€Cuâ€Zn Gas Diffusion Electrodes for CO₂ Electroreduction to C₂₊â€…Products at High Current Densities. Angewandte Chemie - International Edition, 2021, 60, 9135-9141.	7.2	78
160	A dual-cathode study on Ag-Cu sequential CO2 electroreduction towards hydrocarbons. Journal of CO2 Utilization, 2021, 45, 101444.	3.3	10
161	Highly Active Ir/In₂O₃ Catalysts for Selective Hydrogenation of CO₂ to Methanol: Experimental and Theoretical Studies. ACS Catalysis, 2021, 11, 4036-4046.	5.5	108
162	Cu3PdxN nanocrystals for efficient CO2 electrochemical reduction to methane. Electrochimica Acta, 2021, 371, 137793.	2.6	6

#	Article	IF	Citations
163	Electrodeposition of Ni on MWNTs as a promising catalyst for CO₂RR. Energy Science and Engineering, 2021, 9, 1042-1047.	1.9	10
164	Membrane-electrode assembly electrolysis of CO2 to formate using indium nitride nanomaterials. Journal of CO2 Utilization, 2021, 45, 101449.	3.3	14
165	Homogeneously dispersed cobalt/iron electrocatalysts with oxygen vacancies and favorable hydrophilicity for efficient oxygen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 11652-11663.	3.8	22
166	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. Angewandte Chemie, 2021, 133, 19724-19742.	1.6	30
167	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. Angewandte Chemie - International Edition, 2021, 60, 19572-19590.	7.2	341
168	Bâ€Cuâ€Znâ€Gasdiffusionselektroden fÃ¼r die elektrokatalytische CO 2 â€Reduktion zu C 2+ â€Produkten bei hohen Stromdichten. Angewandte Chemie, 2021, 133, 9217-9224.	1.6	4
169	Electrospun nanofibers for electrochemical reduction of CO2: A mini review. Electrochemistry Communications, 2021, 124, 106968.	2.3	13
170	Derived CuSn Alloys from Heterointerfaces in Bimetallic Oxides Promote the CO₂ Electroreduction to Formate. ChemElectroChem, 2021, 8, 1150-1155.	1.7	11
171	Isolated copperâ€"tin atomic interfaces tuning electrocatalytic CO2 conversion. Nature Communications, 2021, 12, 1449.	5.8	119
172	An Investigation of Active Sites for electrochemical CO₂ Reduction Reactions: From In Situ Characterization to Rational Design. Advanced Science, 2021, 8, 2003579.	5.6	101
173	Achieving high current density for electrocatalytic reduction of CO2 to formate on bismuth-based catalysts. Cell Reports Physical Science, 2021, 2, 100353.	2.8	46
174	Electrocatalytic Membranes for Tunable Syngas Production and High-Efficiency Delivery to Biocompatible Electrolytes. ACS Sustainable Chemistry and Engineering, 2021, 9, 6012-6022.	3.2	6
175	Linking the Dynamic Chemical State of Catalysts with the Product Profile of Electrocatalytic CO₂ Reduction. Angewandte Chemie, 2021, 133, 17394-17407.	1.6	42
176	Hidden Mechanism Behind the Roughnessâ€Enhanced Selectivity of Carbon Monoxide Electrocatalytic Reduction. Angewandte Chemie, 2021, 133, 11233-11237.	1.6	6
177	Electrochemical conversion of carbon dioxide over silver-based catalysts: Recent progress in cathode structure and interface engineering. Chemical Engineering Science, 2021, 234, 116403.	1.9	15
178	Grain Boundary Engineering of Cuâ€"Ag Thin-Film Catalysts for Selective (Photo)Electrochemical CO₂ Reduction to CO and CH₄. ACS Applied Materials & Interfaces, 2021, 13, 18905-18913.	4.0	20
179	Hydrangea-like Superstructured Micro/Nanoreactor of Topotactically Converted Ultrathin Bismuth Nanosheets for Highly Active CO₂ Electroreduction to Formate. ACS Applied Materials & Interfaces, 2021, 13, 20589-20597.	4.0	47
180	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO 2 Catalysts. Angewandte Chemie, 2021, 133, 14541-14549.	1.6	2

#	Article	IF	Citations
181	Sn Atoms on Cu Nanoparticles for Suppressing Competitive H₂ Evolution in CO₂ Electrolysis. ACS Applied Nano Materials, 2021, 4, 4994-5003.	2.4	16
182	2021 Roadmap: electrocatalysts for green catalytic processes. JPhys Materials, 2021, 4, 022004.	1.8	57
183	Hidden Mechanism Behind the Roughnessâ€Enhanced Selectivity of Carbon Monoxide Electrocatalytic Reduction. Angewandte Chemie - International Edition, 2021, 60, 11133-11137.	7.2	19
184	Revisiting the Grain and Valence Effect of Oxide-Derived Copper on Electrocatalytic CO₂ Reduction Using Single Crystal Cu(111) Foils. Journal of Physical Chemistry Letters, 2021, 12, 3941-3950.	2.1	16
185	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, 14420-14428.	7.2	24
186	Symmetryâ€Broken Auâ€"Cu Heterostructures and their Tandem Catalysis Process in Electrochemical CO₂ Reduction. Advanced Functional Materials, 2021, 31, 2101255.	7.8	64
187	Machine-Learning-Guided Discovery and Optimization of Additives in Preparing Cu Catalysts for CO₂ Reduction. Journal of the American Chemical Society, 2021, 143, 5755-5762.	6.6	81
188	Unassisted Highly Selective Gas-Phase CO₂ Reduction with a Plasmonic Au/p-GaN Photocatalyst Using H₂O as an Electron Donor. ACS Energy Letters, 2021, 6, 1849-1856.	8.8	49
189	Capture and Reuse of Carbon Dioxide (CO2) for a Plastics Circular Economy: A Review. Processes, 2021, 9, 759.	1.3	41
190	Oxygen vacancy enhancing CO2 electrochemical reduction to CO on Ce-doped ZnO catalysts. Surfaces and Interfaces, 2021, 23, 100923.	1.5	22
191	Sn and N co-doped porous carbon catalyst electrochemically reduce CO2 into tunable syngas. Journal of the Taiwan Institute of Chemical Engineers, 2021, 121, 122-127.	2.7	7
192	Fragmenting C60 toward enhanced electrochemical CO2 reduction. Journal of Materials Science, 2021, 56, 11426-11435.	1.7	9
193	Linking the Dynamic Chemical State of Catalysts with the Product Profile of Electrocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 17254-17267.	7.2	185
194	Engineering Agâ€"N<i>_x</i> Single-Atom Sites on Porous Concave N-Doped Carbon for Boosting CO₂ Electroreduction. ACS Applied Materials & Interfaces, 2021, 13, 17736-17744.	4.0	45
195	Metalloporphyrin Encapsulation for Enhanced Conversion of CO₂ to C₂H₄. ACS Applied Materials & Interfaces, 2021, 13, 25937-25945.	4.0	33
196	Highâ€Rate CO₂ Electroreduction to C₂₊ Products over a Copperâ€Copper Iodide Catalyst. Angewandte Chemie - International Edition, 2021, 60, 14329-14333.	7.2	177
197	<i>In Situ</i> Bismuth Nanosheet Assembly for Highly Selective Electrocatalytic CO₂ Reduction to Formate. Chemistry - an Asian Journal, 2021, 16, 1539-1544.	1.7	15
198	Power-to-X: Lighting the Path to a Net-Zero-Emission Future. ACS Sustainable Chemistry and Engineering, 2021, 9, 7179-7181.	3.2	39

#	Article	IF	Citations
199	Metalâ€"CO₂ Electrochemistry: From CO₂ Recycling to Energy Storage. Advanced Energy Materials, 2021, 11, 2100667.	10.2	65
200	Tailoring Acidic Oxygen Reduction Selectivity on Single-Atom Catalysts via Modification of First and Second Coordination Spheres. Journal of the American Chemical Society, 2021, 143, 7819-7827.	6.6	463
201	Fundamentals, On-Going Advances and Challenges of Electrochemical Carbon Dioxide Reduction. Electrochemical Energy Reviews, 2022, 5, 82-111.	13.1	17
202	Translating Tactics from Direct CO₂ Electroreduction to Electroorganic Coupling Reactions with CO₂. Advanced Energy and Sustainability Research, 2021, 2, 2100001.	2.8	13
203	Highly Scalable Conversion of Blood Protoporphyrin to Efficient Electrocatalyst for CO 2 â€toâ€CO Conversion. Advanced Materials Interfaces, 2021, 8, 2100067.	1.9	4
204	Tandem catalysis in electrochemical CO2 reduction reaction. Nano Research, 2021, 14, 4471-4486.	5.8	105
205	Highâ€Rate CO₂ Electroreduction to C₂₊ Products over a Copperâ€Copper Iodide Catalyst. Angewandte Chemie, 2021, 133, 14450-14454.	1.6	36
206	Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO₂ Electroreduction to Formate. ACS Catalysis, 2021, 11, 7604-7612.	5.5	80
207	Accelerating Electronâ€Transfer and Tuning Product Selectivity Through Surficial Vacancy Engineering on CZTS/CdS for Photoelectrochemical CO₂ Reduction. Small, 2021, 17, e2100496.	5.2	40
208	Interfacial electron transfer for carbon dioxide valorization in hybrid inorganic-microbial systems. Applied Energy, 2021, 292, 116885.	5.1	20
209	Sizeâ€Dependent Selectivity of Electrochemical CO₂ Reduction on Converted In₂O₃ Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 15844-15848.	7.2	71
210	Tuning the Activity of Molybdenum Carbide MXenes for CO₂ Electroreduction by Embedding the Single Transition-Metal Atom. Journal of Physical Chemistry C, 2021, 125, 13331-13342.	1.5	14
211	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N₂: Mechanisms and Implications. Environmental Science & Technology, 2021, 55, 10695-10703.	4.6	68
212	Sizeâ€Dependent Selectivity of Electrochemical CO₂ Reduction on Converted In₂O₃ Nanocrystals. Angewandte Chemie, 2021, 133, 15978-15982.	1.6	9
213	The Synthesis of Hexaazatrinaphthyleneâ€Based 2D Conjugated Copper Metalâ€Organic Framework for Highly Selective and Stable Electroreduction of CO₂ to Methane. Angewandte Chemie, 2021, 133, 16545-16551.	1.6	13
214	Synthesis of a Boronâ€"Imidazolate Framework Nanosheet with Dimer Copper Units for CO₂ Electroreduction to Ethylene. Angewandte Chemie - International Edition, 2021, 60, 16687-16692.	7.2	99
215	Synthesis of a Boronâ€"Imidazolate Framework Nanosheet with Dimer Copper Units for CO 2 Electroreduction to Ethylene. Angewandte Chemie, 2021, 133, 16823-16828.	1.6	10
216	Highly selective and stackable electrode design for gaseous CO2 electroreduction to ethylene in a zero-gap configuration. Nano Energy, 2021, 84, 105859.	8.2	36

#	Article	IF	Citations
217	Stepping Out of Transition Metals: Activating the Dual Atomic Catalyst through Main Group Elements. Advanced Energy Materials, 2021, 11, 2101404.	10.2	33
218	Recent Progresses in Electrochemical Carbon Dioxide Reduction on Copperâ€Based Catalysts toward Multicarbon Products. Advanced Functional Materials, 2021, 31, 2102151.	7.8	123
219	MnO2/reduced graphene oxide nanohybrids as a cathode catalyst for the microbial reduction of CO2 to acetate and isobutyric acid. Sustainable Energy Technologies and Assessments, 2021, 45, 101114.	1.7	12
220	The Synthesis of Hexaazatrinaphthyleneâ€Based 2D Conjugated Copper Metalâ€Organic Framework for Highly Selective and Stable Electroreduction of CO₂ to Methane. Angewandte Chemie - International Edition, 2021, 60, 16409-16415.	7.2	87
221	CO ₂ reduction on pure Cu produces only H ₂ after subsurface O is depleted: Theory and experiment. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	41
222	Quasi-graphitic carbon shell-induced Cu confinement promotes electrocatalytic CO2 reduction toward C2+ products. Nature Communications, 2021, 12, 3765.	5.8	99
223	Effect of the oxidation state and morphology of SnOx-based electrocatalysts on the CO2 reduction reaction. Journal of Materials Research, 2021, 36, 4240-4248.	1.2	5
224	Phase Coexistence and Structural Dynamics of Redox Metal Catalysts Revealed by Operando TEM. Advanced Materials, 2021, 33, e2101772.	11.1	25
225	In-Sn alloy core-shell nanoparticles: In-doped SnOx shell enables high stability and activity towards selective formate production from electrochemical reduction of CO2. Applied Catalysis B: Environmental, 2021, 288, 119979.	10.8	65
226	CuS-Decorated GaN Nanowires on Silicon Photocathodes for Converting CO₂ Mixture Gas to HCOOH. Journal of the American Chemical Society, 2021, 143, 10099-10107.	6.6	61
227	Geometric Modulation of Local CO Flux in Ag@Cu₂O Nanoreactors for Steering the CO₂RR Pathway toward Highâ€Efficacy Methane Production. Advanced Materials, 2021, 33, e2101741.	11.1	116
228	Constructing low-valent Ni nanoparticles for highly selective CO2 reduction. Chinese Chemical Letters, 2022, 33, 424-427.	4.8	12
229	Engineering Bimetallic Copperâ€Tin Based Coreâ€Shell Alloy@Oxide Nanowire as Efficient Catalyst for Electrochemical CO₂ Reduction. ChemElectroChem, 2021, 8, 2701-2707.	1.7	9
230	Recent Advances in Bimetallic Cuâ€Based Nanocrystals for Electrocatalytic CO₂ Conversion. Chemistry - an Asian Journal, 2021, 16, 2168-2184.	1.7	15
231	Dynamic structure change of Cu nanoparticles on carbon supports for <scp>CO₂</scp> electroâ€reduction toward multicarbon products. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1285-1294.	8.5	22
232	Chemical upgrade of carbon monoxide to acetate on an atomically dispersed copper catalyst via CO-insertion. Materials Today Physics, 2021, 19, 100418.	2.9	12
233	Nanoporous Intermetallic Cu₃Sn/Cu Hybrid Electrodes as Efficient Electrocatalysts for Carbon Dioxide Reduction. Small, 2021, 17, e2100683.	5.2	22
234	Effect of bicarbonate on CO2 electroreduction over cathode catalysts. Fundamental Research, 2021, 1, 432-438.	1.6	25

#	Article	IF	Citations
235	Integrating Single Atoms with Different Microenvironments into One Porous Organic Polymer for Efficient Photocatalytic CO₂ Reduction. Advanced Materials, 2021, 33, e2101568.	11.1	96
236	Ligand removal of Au25 nanoclusters by thermal and electrochemical treatments for selective CO2 electroreduction to CO. Journal of Chemical Physics, 2021, 155, 051101.	1.2	16
237	Activity descriptor of Ni,N-Codoped carbon electrocatalyst in CO2 electroreduction reaction. Chemical Engineering Journal, 2022, 433, 131965.	6.6	13
238	In Situ Spectroscopic Diagnosis of CO₂ Reduction at the Pt Electrode/Pyridine-Containing Electrolyte Interface. ACS Catalysis, 2021, 11, 10836-10846.	5.5	7
239	Enhanced Activation of CO₂ on <i>h</i>-BN Nanosheets via Forming a Donorâ€“Acceptor Heterostructure with 2D M₂X Electrenes. Journal of Physical Chemistry C, 2021, 125, 18762-18769.	1.5	7
240	Electronic Tuning of SnS₂ Nanosheets by Hydrogen Incorporation for Efficient CO₂ Electroreduction. Nano Letters, 2021, 21, 7789-7795.	4.5	35
241	Phaseâ€Dependent Electrocatalytic CO 2 Reduction on Pd 3 Bi Nanocrystals. Angewandte Chemie, 2021, 133, 21909-21913.	1.6	11
242	Reducing the crossover of carbonate and liquid products during carbon dioxide electroreduction. Cell Reports Physical Science, 2021, 2, 100522.	2.8	38
243	Gold-like activity copper-like selectivity of heteroatomic transition metal carbides for electrocatalytic carbon dioxide reduction reaction. Nature Communications, 2021, 12, 5067.	5.8	40
244	Highly Efficient CO₂ Electroreduction to Methanol through Atomically Dispersed Sn Coupled with Defective CuO Catalysts. Angewandte Chemie, 2021, 133, 22150-22158.	1.6	11
245	Highly Efficient CO₂ Electroreduction to Methanol through Atomically Dispersed Sn Coupled with Defective CuO Catalysts. Angewandte Chemie - International Edition, 2021, 60, 21979-21987.	7.2	90
246	Guiding the Catalytic Properties of Copper for Electrochemical CO₂ Reduction by Metal Atom Decoration. ACS Applied Materials & Interfaces, 2021, 13, 52044-52054.	4.0	16
247	Envisioning the â€œAir Economyâ€•â€” Powered by Reticular Chemistry and Sunlight for Clean Air, Clean Energy, and Clean Water. Molecular Frontiers Journal, 2021, 05, 30-37.	0.9	5
248	Research progress of electrochemical CO2 reduction for copper-based catalysts to multicarbon products. Coordination Chemistry Reviews, 2021, 441, 213983.	9.5	45
249	Manipulating Cu Nanoparticle Surface Oxidation States Tunes Catalytic Selectivity toward CH₄ or C₂₊ Products in CO₂ Electroreduction. Advanced Energy Materials, 2021, 11, 2101424.	10.2	71
250	How Catalyst Dispersion Solvents Affect CO₂ Electrolyzer Gas Diffusion Electrodes. Energy & Fuels, 2021, 35, 19178-19184.	2.5	20
251	Light-driven carbon dioxide reduction to methane by <i>Methanosarcina barkeri</i> in an electric syntrophic coculture. ISME Journal, 2022, 16, 370-377.	4.4	40
252	Bimetallic phthalocyanine heterostructure used for highly selective electrocatalytic CO2 reduction. Science China Materials, 2022, 65, 155-162.	3.5	32

#	Article	IF	Citations
253	Phaseâ€Dependent Electrocatalytic CO₂ Reduction on Pd₃Bi Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 21741-21745.	7.2	59
254	Mapping Compositionâ€“Selectivity Relationships of Supported Sub-10 nm Cuâ€“Ag Nanocrystals for High-Rate CO₂ Electroreduction. ACS Nano, 2021, 15, 14858-14872.	7.3	28
255	Local Field Induced Mass Transfer: New Insight into Nanoâ€electrocatalysis. Chemistry - A European Journal, 2021, 27, 17726-17735.	1.7	7
256	Surface Oxidized Ag Nanofilms Towards Highly Effective CO 2 Reduction. ChemElectroChem, 2021, 8, 3579-3583.	1.7	7
257	Electrochemical reduction of CO2 to CH4 over transition metal atom embedded antimonene: First-principles study. Journal of CO2 Utilization, 2021, 51, 101645.	3.3	13
258	Constructing Catalytic Crown Ether-Based Covalent Organic Frameworks for Electroreduction of CO₂. ACS Energy Letters, 2021, 6, 3496-3502.	8.8	53
259	Gas diffusion electrodes and membranes for CO2 reduction electrolysers. Nature Reviews Materials, 2022, 7, 55-64.	23.3	265
260	A Metalâ€“Organic Framework derived Cu_{<i>x</i>}O_yC_z Catalyst for Electrochemical CO₂ Reduction and Impact of Local pH Change. Angewandte Chemie - International Edition, 2021, 60, 23427-23434.	7.2	63
261	Lewisâ€Basic EDTA as a Highly Active Molecular Electrocatalyst for CO 2 Reduction to CH 4. Angewandte Chemie, 2021, 133, 23184.	1.6	11
262	Efficient Aqueous Electroreduction of CO₂ to Formate at Low Overpotential on Indium Tin Oxide Nanocrystals. Chemistry of Materials, 2021, 33, 7675-7685.	3.2	16
263	Seeing is believing: In-situ visualising dynamic evolution in CO2 electrolysis. Current Opinion in Electrochemistry, 2022, 31, 100846.	2.5	5
264	Stable, active CO2 reduction to formate via redox-modulated stabilization of active sites. Nature Communications, 2021, 12, 5223.	5.8	145
265	ZnOHF nanorods for efficient electrocatalytic reduction of carbon dioxide to carbon monoxide. Journal of Fuel Chemistry and Technology, 2021, 49, 1379-1388.	0.9	7
266	Lowâ€Valence Zn^{Î´+} (0<Î´<2) Singleâ€Atom Material as Highly Efficient Electrocatalyst for CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 22826-22832.	7.2	115
267	Lowâ€Valence Zn^{Î´+} (0<Î´<2) Singleâ€Atom Material as Highly Efficient Electrocatalyst for CO₂ Reduction. Angewandte Chemie, 2021, 133, 23008-23014.	1.6	12
268	Ein MOFâ€basierter Cu_{<i>x</i>}O_{<i>y</i>}C_{<i>z</i>}â€Katalysator fÃ¼r die elektrochemische CO₂â€Reduktion und die Auswirkungen der lokalen pHâ€Ã„nderung. Angewandte Chemie, 2021, 133, 23616-23624.	1.6	4
269	Metal-Nitrogen-doped carbon single-atom electrocatalysts for CO2 electroreduction. Composites Part B: Engineering, 2021, 220, 108986.	5.9	35
270	Thermally Evaporated Agâ€“Au Bimetallic Catalysts for Efficient Electrochemical CO₂ Reduction. Particle and Particle Systems Characterization, 2021, 38, 2100148.	1.2	5

#	Article	IF	Citations
271	Molecular insights and future frontiers in cell photosensitization for solar-driven CO2 conversion. IScience, 2021, 24, 102952.	1.9	17
272	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie, 2021, 133, 25445-25449.	1.6	22
273	Dynamic Restructuring of Cuâ€Doped SnS₂ Nanoflowers for Highly Selective Electrochemical CO₂ Reduction to Formate. Angewandte Chemie, 2021, 133, 26437-26441.	1.6	8
274	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie - International Edition, 2021, 60, 25241-25245.	7.2	104
275	Lewisâ€Basic EDTA as a Highly Active Molecular Electrocatalyst for CO₂ Reduction to CH₄. Angewandte Chemie - International Edition, 2021, 60, 23002-23009.	7.2	33
276	Dual 2D CuSe/g-C3N4 heterostructure for boosting electrocatalytic reduction of CO2. Electrochimica Acta, 2021, 390, 138766.	2.6	30
277	Synergistic Effect of Cu Single Atoms and Auâ€“Cu Alloy Nanoparticles on TiO₂ for Efficient CO₂ Photoreduction. ACS Nano, 2021, 15, 14453-14464.	7.3	236
278	The Role of Surface Curvature in Electrocatalysts. Chemistry - A European Journal, 2022, 28, .	1.7	9
279	Dynamic Restructuring of Cuâ€Doped SnS₂ Nanoflowers for Highly Selective Electrochemical CO₂ Reduction to Formate. Angewandte Chemie - International Edition, 2021, 60, 26233-26237.	7.2	66
280	Effects of the Catalyst Dynamic Changes and Influence of the Reaction Environment on the Performance of Electrochemical CO₂ Reduction. Advanced Materials, 2022, 34, e2103900.	11.1	61
281	Electric-field-driven electrochemical CO2 reduction of sharpened Sn/Cu catalysts. Applied Surface Science, 2021, 565, 150460.	3.1	22
282	Copper-comprising nanocrystals as well-defined electrocatalysts to advance electrochemical CO2 reduction. Journal of Energy Chemistry, 2021, 62, 71-102.	7.1	26
283	Regulating electrochemical CO2RR selectivity at industrial current densities by structuring copper@poly(ionic liquid) interface. Applied Catalysis B: Environmental, 2021, 297, 120471.	10.8	41
284	Carbon sustained SnO2-Bi2O3 hollow nanofibers as Janus catalyst for high-efficiency CO2 electroreduction. Chemical Engineering Journal, 2021, 426, 131867.	6.6	24
285	High-entropy carbons: From high-entropy aromatic species to single-atom catalysts for electrocatalysis. Chemical Engineering Journal, 2021, 426, 131320.	6.6	14
286	Cascade electrocatalytic reduction of carbon dioxide and nitrate to ethylamine. Journal of Energy Chemistry, 2022, 65, 367-370.	7.1	52
287	A perspective on the electrocatalytic conversion of carbon dioxide to methanol with metallomacrocyclic catalysts. Journal of Energy Chemistry, 2022, 64, 263-275.	7.1	28
288	A Review on Ceo₂â€Based Electrocatalyst and Photocatalyst in Energy Conversion. Advanced Energy and Sustainability Research, 2021, 2, 2000063.	2.8	60

#	Article	IF	Citations
289	Predictable interfacial mass transfer intensification of Snâ€“N doped multichannel hollow carbon nanofibers for the CO2 electro-reduction reaction. Sustainable Energy and Fuels, 2021, 5, 3097-3101.	2.5	4
290	Ruthenium Coreâ€“Shell Engineering with Nickel Single Atoms for Selective Oxygen Evolution via Nondestructive Mechanism. Advanced Energy Materials, 2021, 11, 2003448.	10.2	124
291	Simultaneous diffusion of cation and anion to access N, S co-coordinated Bi-sites for enhanced CO2 electroreduction. Nano Research, 2021, 14, 2790-2796.	5.8	53
292	When amine-based conducting polymers meet Au nanoparticles: suppressing H₂ evolution and promoting the selective electroreduction of CO₂ to CO at low overpotentials. Sustainable Energy and Fuels, 2021, 5, 779-786.	2.5	6
293	MOFsâ€Derived Carbonâ€Based Metal Catalysts for Energyâ€Related Electrocatalysis. Small, 2021, 17, e2004398.	5.2	67
294	Enabling storage and utilization of low-carbon electricity: power to formic acid. Energy and Environmental Science, 2021, 14, 1194-1246.	15.6	119
295	An industrial perspective on catalysts for low-temperature CO2 electrolysis. Nature Nanotechnology, 2021, 16, 118-128.	15.6	255
296	Emerging dynamic structure of electrocatalysts unveiled by<i>in situ</i>X-ray diffraction/absorption spectroscopy. Energy and Environmental Science, 2021, 14, 1928-1958.	15.6	179
297	N-Bridged Coâ€“Nâ€“Ni: new bimetallic sites for promoting electrochemical CO₂ reduction. Energy and Environmental Science, 2021, 14, 3019-3028.	15.6	128
298	Zâ€Schemaâ€Photokatalysesysteme fÃ¼r die Kohlendioxidreduktion: Wo stehen wir heute?. Angewandte Chemie, 2020, 132, 23092-23115.	1.6	30
299	Zâ€Scheme Photocatalytic Systems for Carbon Dioxide Reduction: Where Are We Now?. Angewandte Chemie - International Edition, 2020, 59, 22894-22915.	7.2	435
300	Integrating Nickel-Nitrogen Doped Carbon Catalyzed CO2 Electroreduction with Chlor-Alkali Process for CO, Cl2 and KHCO3 Production with Enhanced Techno-Economics. Applied Catalysis B: Environmental, 2020, 275, 119154.	10.8	56
301	Enhanced CO2 electroreduction to ethylene via strong metal-support interaction. Green Energy and Environment, 2022, 7, 792-798.	4.7	19
302	Cooperative CO2-to-ethanol conversion via enriched intermediates at moleculeâ€“metal catalyst interfaces. Nature Catalysis, 2020, 3, 75-82.	16.1	390
303	Direct and continuous generation of pure acetic acid solutions via electrocatalytic carbon monoxide reduction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	93
304	A cost-effective indium/carbon catalyst for highly efficient electrocatalytic reduction of CO₂ to HCOOH. Sustainable Energy and Fuels, 2021, 5, 5798-5803.	2.5	7
305	Electrochemical CO₂ Reduction on Cu: Synthesisâ€Controlled Structure Preference and Selectivity. Advanced Science, 2021, 8, e2101597.	5.6	42
306	Temperatureâ€Dependent CO₂ Electroreduction over Feâ€Nâ€C and Niâ€Nâ€C Singleâ€Atom Catalysts. Angewandte Chemie, 2021, 133, 26786-26790.	1.6	11

#	Article	IF	Citations
307	Temperatureâ€Dependent CO₂ Electroreduction over Feâ€Nâ€C and Niâ€Nâ€C Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2021, 60, 26582-26586.	7.2	57
308	Emerging Electrocatalysts for Water Oxidation under Nearâ€Neutral CO₂ Reduction Conditions. Advanced Materials, 2022, 34, e2105852.	11.1	34
309	Defective Bimetallic Selenides for Selective CO₂ Electroreduction to CO. Advanced Materials, 2022, 34, e2106354.	11.1	43
310	Single Nickel Atom-Modified Phosphorene Nanosheets for Electrocatalytic CO₂ Reduction. ACS Applied Nano Materials, 2021, 4, 11017-11030.	2.4	24
311	Modulating carbon dioxide activation on carbon nanotube immobilized salophen complexes by varying metal centers for efficient electrocatalytic reduction. Journal of Colloid and Interface Science, 2022, 608, 1827-1836.	5.0	8
312	Influence of sub-zero temperature on nucleation and growth of copper nanoparticles in electrochemical reactions. IScience, 2021, 24, 103289.	1.9	3
313	Voltage cycling process for the electroconversion of biomass-derived polyols. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
314	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	5.2	306
315	Spectroscopic Identification of Transition-Metal M[Î·²-(O,O)C] Species for Highly-Efficient CO₂ Activation. Journal of Physical Chemistry Letters, 2021, 12, 472-477.	2.1	8
316	A Cu(111)@metalâ€“organic framework as a tandem catalyst for highly selective CO₂ electroreduction to C₂H₄. Chemical Communications, 2021, 57, 12764-12767.	2.2	37
317	Catalytic Conversion of CO2 to Fuels and Value-added Chemicals. RSC Energy and Environment Series, 2020, , 397-430.	0.2	0
318	Cationâ€Deficiencyâ€Dependent CO₂ Electroreduction over Copperâ€Based Ruddlesdenâ€“Popper Perovskite Oxides. Angewandte Chemie - International Edition, 2022, 61, .	7.2	33
319	Cationâ€Deficiencyâ€Dependent CO2 Electroreduction over Copperâ€Based Ruddlesdenâ€Popper Perovskite Oxides. Angewandte Chemie, 2022, 134, e202111670.	1.6	0
320	Synthetic biology toolkit for engineering Cupriviadus necator H16 as a platform for CO2 valorization. Biotechnology for Biofuels, 2021, 14, 212.	6.2	14
321	Ag/C composite catalysts derived from spray pyrolysis for efficient electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 431, 133384.	6.6	18
322	Recent Advances on Electrolysis for Simultaneous Generation of Valuable Chemicals at both Anode and Cathode. Advanced Energy Materials, 2021, 11, 2102292.	10.2	129
323	In Situ/Operando Insights into the Stability and Degradation Mechanisms of Heterogeneous Electrocatalysts. Small, 2022, 18, e2104205.	5.2	14
324	Cost-effective and durable electrocatalysts for Co-electrolysis of CO2 conversion and glycerol upgrading. Nano Energy, 2022, 92, 106751.	8.2	35

#	Article	IF	Citations
325	Theoretical Screening of Transition Metal Doped Defective MoS₂ as Efficient Electrocatalyst for CO Conversion to CH₄. ChemPhysChem, 2022, 23, .	1.0	2
326	Promoting ethylene production over a wide potential window on Cu crystallites induced and stabilized via current shock and charge delocalization. Nature Communications, 2021, 12, 6823.	5.8	61
327	Dynamic transformation of cubic copper catalysts during CO2 electroreduction and its impact on catalytic selectivity. Nature Communications, 2021, 12, 6736.	5.8	83
328	Electrochemical CO2 Conversion. Advances in Science, Technology and Innovation, 2022, , 113-136.	0.2	2
329	A Multiscale Strategy to Construct Cobalt Nanoparticles Confined within Hierarchical Carbon Nanofibers for Efficient CO₂ Electroreduction. Small, 2022, 18, e2104958.	5.2	4
330	Local Environment Determined Reactant Adsorption Configuration for Enhanced Electrocatalytic Acetone Hydrogenation to Propane. Angewandte Chemie - International Edition, 2022, 61, .	7.2	26
331	Scalable Chemical Interface Confinement Reduction BiOBr to Bismuth Porous Nanosheets for Electroreduction of Carbon Dioxide to Liquid Fuel. Advanced Functional Materials, 2022, 32, 2107182.	7.8	40
332	Electrocatalytic carbon dioxide reduction in acid. Chem Catalysis, 2022, 2, 29-38.	2.9	23
333	Local Environment Determined Reactant Adsorption Configuration for Enhanced Electrocatalytic Acetone Hydrogenation to Propane. Angewandte Chemie, 0, , .	1.6	4
334	Coordination engineering of cobalt phthalocyanine by functionalized carbon nanotube for efficient and highly stable carbon dioxide reduction at high current density. Nano Research, 2022, 15, 3056-3064.	5.8	40
335	Highly Efficient Electrocatalytic CO₂ Reduction to C₂₊ Products on a Poly(ionic liquid)â€Based Cu⁰â€"Cu^I Tandem Catalyst. Angewandte Chemie, 2022, 134, .	1.6	6
336	Effect of Dealloying Time and Post-Annealing on the Surface Morphology and Electrocatalytic Behavior of Nanoporous Copper Films for CO2 Reduction Reaction. Journal of the Electrochemical Society, 2021, 168, 123501.	1.3	2
337	Hybrid Organicâ€Inorganic Heterogeneous Interfaces for Electrocatalysis: A Theoretical Study of CO₂ Reduction to C₂. ChemCatChem, 2022, 14, .	1.8	5
338	Highly Efficient Electrocatalytic CO₂ Reduction to C₂₊ Products on a Poly(ionic liquid)â€Based Cu⁰â€"Cu^I Tandem Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	77
340	Unexpected high selectivity for acetate formation from CO₂ reduction with copper based 2D hybrid catalysts at ultralow potentials. Chemical Science, 2021, 12, 15382-15388.	3.7	19
341	Optimizing Utilization of Point Source and Atmospheric Carbon Dioxide as a Feedstock in Electrochemical CO ₂ Reduction. SSRN Electronic Journal, 0, , .	0.4	0
342	Recent advances in MoS₂-based materials for electrocatalysis. Chemical Communications, 2022, 58, 2259-2278.	2.2	30
343	Identifying TM-N4 active sites for selective CO2-to-CH4 conversion: A computational study. Applied Surface Science, 2022, 582, 152470.	3.1	16

#	Article	IF	Citations
344	Electrochemical CO2 reduction (CO2RR) to multi-carbon products over copper-based catalysts. Coordination Chemistry Reviews, 2022, 454, 214340.	9.5	175
345	Strain-assisted in-situ formed oxygen defective WO3 film for photothermal-synergistic reverse water gas shift reaction and single-particle study. Chemical Engineering Journal, 2022, 433, 134199.	6.6	10
346	Cu2O nano-flowers/graphene enabled scaffolding structure catalyst layer for enhanced CO2 electrochemical reduction. Applied Catalysis B: Environmental, 2022, 305, 121022.	10.8	29
347	Gastight rotating cylinder electrode: Toward decoupling mass transport and intrinsic kinetics in electrocatalysis. AIChE Journal, 2022, 68, .	1.8	21
348	Rationalâ€Designed Principles for Electrochemical and Photoelectrochemical Upgrading of CO₂ to Valueâ€Added Chemicals. Advanced Science, 2022, 9, e2105204.	5.6	75
349	Dealloyed nanoporous materials for electrochemical energy conversion and storage. EnergyChem, 2022, 4, 100069.	10.1	43
352	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industryâ€Relevant Current Density. Small, 2022, 18, e2106766.	5.2	30
353	Stabilizing Cu²⁺ Ions by Solid Solutions to Promote CO₂ Electroreduction to Methane. Journal of the American Chemical Society, 2022, 144, 2079-2084.	6.6	188
354	Synergistically enhanced single-atomic site catalysts for clean energy conversion. Journal of Materials Chemistry A, 2022, 10, 5673-5698.	5.2	12
355	Electroreduction of carbon dioxide to multi-electron reduction products using poly(ionic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.6	8
356	Evolution of Cu single atom catalysts to nanoclusters during CO₂ reduction to CO. Chemical Communications, 2022, 58, 2488-2491.	2.2	19
357	Electrocatalytic CO₂ Reduction in Acetonitrile Enhanced by the Local Environment and Mass Transport of H₂O. ACS Energy Letters, 2022, 7, 602-609.	8.8	20
358	Intermetallic Cu₁₁In₉<i>in situ</i> formed on hierarchical nanoporous Cu for highly selective CO₂ electroreduction. Journal of Materials Chemistry A, 2022, 10, 4333-4343.	5.2	7
359	Surface and interface chemistry in metalâ€free electrocatalysts for electrochemical CO₂ reduction. SmartMat, 2022, 3, 5-34.	6.4	25
360	Joint tuning the morphology and oxygen vacancy of Cu2O by ionic liquid enables high-efficient CO2 reduction to C2 products. Chemical Engineering Journal, 2022, 436, 135029.	6.6	32
361	Electric-field promoted Câ€"C coupling over Cu nanoneedles for CO2 electroreduction to C2 products. Chinese Journal of Catalysis, 2022, 43, 519-525.	6.9	34
362	Redox Replacement of Silver on MOFâ€Derived Cu/C Nanoparticles on Gas Diffusion Electrodes for Electrocatalytic CO₂ Reduction. Chemistry - A European Journal, 2022, 28, .	1.7	11
363	Electrocatalysis under a magnetic lens: A combined electrochemistry and electron paramagnetic resonance review. Electrochimica Acta, 2022, 407, 139704.	2.6	11

#	Article	IF	Citations
364	Bismuthene with stable Bi O bonds for efficient CO2 electroreduction to formate. Chemical Engineering Science, 2022, 251, 117409.	1.9	15
365	Identification of Copper as an Ideal Catalyst for Electrochemical Alkyne Semi-hydrogenation. Journal of Physical Chemistry C, 2022, 126, 3037-3042.	1.5	10
366	Accelerating Pd Electrocatalysis for CO₂-to-Formate Conversion across a Wide Potential Window by Optimized Incorporation of Cu. ACS Applied Materials & Interfaces, 2022, 14, 8896-8905.	4.0	26
367	Green Carbon Science: Efficient Carbon Resource Processing, Utilization, and Recycling towards Carbon Neutrality. Angewandte Chemie, 2022, 134, .	1.6	11
368	Dual-Atom Metal and Nonmetal Site Catalyst on a Single Nickel Atom Supported on a Hybridized BCN Nanosheet for Electrochemical CO₂ Reduction to Methane: Combining High Activity and Selectivity. ACS Applied Materials & Interfaces, 2022, 14, 9073-9083.	4.0	34
369	Green Carbon Science: Efficient Carbon Resource Processing, Utilization, and Recycling towards Carbon Neutrality. Angewandte Chemie - International Edition, 2022, 61, .	7.2	146
370	Accelerating CO₂ Electroreduction to Multicarbon Products via Synergistic Electricâ€"Thermal Field on Copper Nanoneedles. Journal of the American Chemical Society, 2022, 144, 3039-3049.	6.6	147
371	Integrated electrocatalysts derived from metal organic frameworks for gas-involved reactions. Nano Materials Science, 2023, 5, 161-176.	3.9	22
372	Stabilizing intermediates and optimizing reaction processes with N doping in Cu2O for enhanced CO2 electroreduction. Applied Catalysis B: Environmental, 2022, 308, 121191.	10.8	59
373	The Enhanced Local Co Concentration for Efficient Co2 Electrolysis Towards C2 Products on Tandem Active Sites. SSRN Electronic Journal, 0, , .	0.4	0
374	Structural Design and Performance of Electrocatalysts for Carbon Dioxide Reduction: A Review. Acta Chimica Sinica, 2022, 80, 199.	0.5	3
375	Electrochemical conversion of CO₂ to syngas with a stable H₂/CO ratio in a wide potential range over ligand-engineered metalâ€"organic frameworks. Journal of Materials Chemistry A, 2022, 10, 9954-9959.	5.2	5
376	Bi catalysts supported on GaN nanowires toward efficient photoelectrochemical CO₂ reduction. Journal of Materials Chemistry A, 2022, 10, 7869-7877.	5.2	18
377	Electrochemically driven Câ€"N bond formation from CO₂ and ammonia at the triple-phase boundary. Chemical Science, 2022, 13, 3957-3964.	3.7	38
378	Infrared analysis of catalytic CO₂ reduction in hydrogenated germanium. Physical Chemistry Chemical Physics, 2022, 24, 10241-10248.	1.3	4
379	Single-Step Production of Alcohols and Paraffins from CO₂ and H₂ at Metric Ton Scale. ACS Energy Letters, 2022, 7, 988-992.	8.8	3
380	Photobiocatalytic Solar Fuel and Solar Chemical Conversion: Sufficient Activity and Better Selectivity. ACS ES&T Engineering, 2022, 2, 989-1000.	3.7	12
381	A Highâ€Performance Solidâ€State Naâ€"CO₂ Battery with Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Electrolyte. Energy and Environmental Materials, 2023, 6, .	7.3	7

#	Article	IF	Citations
382	Activity Origin of Antimony Nanosheets toward Selective Electroreduction of CO₂ to Formic Acid. Journal of Physical Chemistry C, 2022, 126, 4015-4023.	1.5	7
383	Promoting the Electrocatalytic Reduction of CO₂ on Ultrathin Porous Bismuth Nanosheets with Tunable Surface-Active Sites and Local pH Environments. ACS Applied Materials & Interfaces, 2022, 14, 10648-10655.	4.0	23
384	Strong Correlation between the Dynamic Chemical State and Product Profile of Carbon Dioxide Electroreduction. ACS Applied Materials & Interfaces, 2022, 14, 22681-22696.	4.0	30
385	Electroreduction of CO₂ with Tunable Selectivity on Auâ€“Pd Bimetallic Catalyst: A First Principle Study. ACS Applied Materials & Interfaces, 2022, 14, 11313-11321.	4.0	4
386	Ultrathin two-dimensional metallenes for heterogeneous catalysis. Chem Catalysis, 2022, 2, 693-723.	2.9	39
387	Tuning the Selectivity of Liquid Products of CO₂RR by Cuâ€“Ag Alloying. ACS Applied Materials & Interfaces, 2022, 14, 11567-11574.	4.0	44
388	The Interactive Dynamics of Nanocatalyst Structure and Microenvironment during Electrochemical CO₂ Conversion. Jacs Au, 2022, 2, 562-572.	3.6	44
389	Review of photocatalytic and photo-electrocatalytic reduction of CO2 on carbon supported films. International Journal of Hydrogen Energy, 2022, 47, 30908-30936.	3.8	16
390	Lowâ€dimensional material supported singleâ€atom catalysts for electrochemical CO₂ reduction. SmartMat, 2022, 3, 84-110.	6.4	46
391	Multi-field driven hybrid catalysts for CO2 reduction: Progress, mechanism and perspective. Materials Today, 2022, 54, 225-246.	8.3	14
392	Selectivity regulation of CO2 electroreduction on asymmetric AuAgCu tandem heterostructures. Nano Research, 2022, 15, 7861-7867.	5.8	30
393	Electronic Regulation of Nickel Single Atoms by Confined Nickel Nanoparticles for Energyâ€Efficient CO₂ Electroreduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	57
394	A Grapheneâ€Supported Copper Complex as Siteâ€Isolated Catalyst for Electrochemical CO₂ Reduction. ChemElectroChem, 2022, 9, .	1.7	1
395	Electrochemically Driven Interfacial Transformation For Highâ€Performing Solarâ€Toâ€Fuel Electrocatalytic Conversion. Advanced Energy Materials, 2022, 12, .	10.2	25
396	Customizing the microenvironment of CO₂ electrocatalysis via threeâ€phase interface engineering. SmartMat, 2022, 3, 111-129.	6.4	27
397	Controlled Synthesis of Intermetallic Au₂Bi Nanocrystals and Au₂Bi/Bi Heteroâ€Nanocrystals with Promoted Electrocatalytic CO₂ Reduction Properties. ChemSusChem, 2022, 15, .	3.6	6
398	Electronic Regulation of Nickel Single Atoms by Confined Nickel Nanoparticles for Energyâ€Efficient CO₂ Electroreduction. Angewandte Chemie, 2022, 134, .	1.6	9
399	Trends in oxygenate/hydrocarbon selectivity for electrochemical CO(2) reduction to C2 products. Nature Communications, 2022, 13, 1399.	5.8	56

#	ARTICLE	IF	CITATIONS
400	Local concentration effect on nano-electrocatalytic CO2 reduction. Carbon Capture Science & Technology, 2022, 3, 100047.	4.9	3
401	Densely packed ultrafine SnO2 nanoparticles grown on carbon cloth for selective CO2 reduction to formate. Journal of Energy Chemistry, 2022, 71, 159-166.	7.1	17
402	A CuO_x/Cu/C electrocatalystâ€based gas diffusion electrode for the electroreduction of CO₂ with high selectivity to C₂H₄. Electrochemical Science Advances, 2023, 3, .	1.2	4
403	Electrocatalytic CO2 Reduction by Molecular Ruthenium Complexes with Polypyridyl Ligands. Chemistry - an Asian Journal, 2022, , .	1.7	3
404	Enhanced electrochemical CO2-to-C2+ conversion from synergistic interaction between terrace and step sites on monocrystalline high-index Cu facets. Journal of Energy Chemistry, 2022, 70, 382-387.	7.1	9
405	Electrochemical conversion of CO2 to value-added chemicals over bimetallic Pd-based nanostructures: Recent progress and emerging trends. Environmental Research, 2022, 211, 113116.	3.7	4
406	From Stochastic Selfâ€Assembly of Nanoparticles to Nanostructured (Photo)Electrocatalysts for Renewable Powerâ€toâ€X Applications via Scalable Flame Synthesis. Advanced Functional Materials, 2022, 32, .	7.8	12
407	Au³⁺ Species-Induced Interfacial Activation Enhances Metalâ€“Support Interactions for Boosting Electrocatalytic CO₂ Reduction to CO. ACS Catalysis, 2022, 12, 923-934.	5.5	42
408	Toward an Understanding of the Reversible Li-CO₂ Batteries over Metalâ€“N₄-Functionalized Graphene Electrocatalysts. ACS Nano, 2022, 16, 1523-1532.	7.3	52
409	Interfacial Electrolyte Effects on Electrocatalytic CO₂ Reduction. ACS Catalysis, 2022, 12, 331-362.	5.5	123
410	Strategies for heterogeneous small-molecule electrosynthesis. Cell Reports Physical Science, 2021, 2, 100682.	2.8	6
411	Engineering Electrochemical Surface for Efficient Carbon Dioxide Upgrade. Advanced Energy Materials, 2022, 12, .	10.2	33
412	Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials. Nano Research, 2023, 16, 4289-4309.	5.8	17
413	Recent progress in electrochemical reduction of carbon dioxide on metal singleâ€atom catalysts. Energy Science and Engineering, 2022, 10, 1584-1600.	1.9	11
414	Improved electrochemical conversion of CO2 to multicarbon products by using molecular doping. Nature Communications, 2021, 12, 7210.	5.8	60
415	A Mn single atom catalyst with Mnâ€“N₂O₂ sites integrated into carbon nanosheets for efficient electrocatalytic CO₂ reduction. Journal of Materials Chemistry A, 2022, 10, 10892-10901.	5.2	28
416	Understanding and leveraging the effect of cations in the electrical double layer for electrochemical CO2 reduction. Chem Catalysis, 2022, 2, 1267-1276.	2.9	52
417	Optimizing utilization of point source and atmospheric carbon dioxide as a feedstock in electrochemical CO2 reduction. IScience, 2022, 25, 104270.	1.9	7

#	Article	IF	Citations
418	Atomically Dispersed Niï£¿N₃ Sites on Highly Defective Microâ€Mesoporous Carbon for Superior CO₂ Electroreduction. Small, 2022, 18, e2107997.	5.2	16
419	Electrolytic Methane Production from Reactive Carbon Solutions. ACS Energy Letters, 2022, 7, 1712-1718.	8.8	23
420	Concluding remarks: discussion on natural and artificial enzymes including synthetic models. Faraday Discussions, 2022, 234, 388-404.	1.6	0
421	MOF-based advanced nanomaterials for electrocatalysis applications. , 2022, , 749-763.		1
422	Modulating AgIn@In2O3 coreâ€shell catalysts for amplified electrochemical reduction of CO2 to formate. ChemElectroChem, 0, , .	1.7	1
423	Bismuth/Graphdiyne Heterostructure for Electrocatalytic Conversion of CO2 to Formate. Chemical Research in Chinese Universities, 2022, 38, 1380-1386.	1.3	6
424	Review on covalent organic frameworks and derivatives for electrochemical and photocatalytic CO2 reduction. Catalysis Today, 2023, 409, 103-118.	2.2	17
425	Photoelectrochemical CO₂ Reduction toward Multicarbon Products with Silicon Nanowire Photocathodes Interfaced with Copper Nanoparticles. Journal of the American Chemical Society, 2022, 144, 8002-8006.	6.6	46
426	Efficient carbon dioxide electroreduction over rationally designed heterogeneous Ag2S-Au nanocomposites. Journal of Colloid and Interface Science, 2022, 623, 1172-1180.	5.0	9
427	Construction of Câ€"N bonds from small-molecule precursors through heterogeneous electrocatalysis. Nature Reviews Chemistry, 2022, 6, 303-319.	13.8	108
428	Recent advances in the rational design of single-atom catalysts for electrochemical CO2 reduction. Nano Research, 2022, 15, 9747-9763.	5.8	19
429	Continuum Modeling of Porous Electrodes for Electrochemical Synthesis. Chemical Reviews, 2022, 122, 11022-11084.	23.0	46
430	Steering the Selectivity of Electrochemical CO₂ Reduction in Acidic Media. ChemCatChem, 2022, 14, .	1.8	17
431	Flexible Cuprous Triazolate Frameworks as Highly Stable and Efficient Electrocatalysts for CO₂ Reduction with Tunable C₂H₄/CH₄ Selectivity. Angewandte Chemie - International Edition, 2022, 61, .	7.2	50
432	Progress in regulating electronic structure strategies on Cu-based bimetallic catalysts for CO2 reduction reaction. , 2022, 1, 100055.		43
433	Preanodized Cu Surface for Selective CO₂ Electroreduction to C₁ or C₂₊ Products. ACS Applied Materials & Interfaces, 2022, 14, 20953-20961.	4.0	8
434	Bridge Sites of Au Surfaces Are Active for Electrocatalytic CO₂ Reduction. Journal of the American Chemical Society, 2022, 144, 8641-8648.	6.6	38
435	Flexible Cuprous Triazolate Frameworks as Highly Stable and Efficient Electrocatalysts for CO₂ Reduction with Tunable C₂H₄/CH₄ Selectivity. Angewandte Chemie, 2022, 134, .	1.6	4

#	Article	IF	Citations
436	Selective Enhancement of Methane Formation in Electrochemical CO₂ Reduction Enabled by a Raman-Inactive Oxygen-Containing Species on Cu. ACS Catalysis, 2022, 12, 6036-6046.	5.5	22
437	Insights into Highly-Efficient CO₂ Electroreduction to CO on Supported Gold Nanoparticles in an Alkaline Gas-Phase Electrolyzer. Journal of the Electrochemical Society, 2022, 169, 054513.	1.3	5
438	Vaporâ€Fed Electrolyzers for Carbon Dioxide Reduction Using Tandem Electrocatalysts: Cuprous Oxide Coupled with Nickelâ€Coordinated Nitrogenâ€Doped Carbon. Advanced Functional Materials, 2022, 32, .	7.8	15
439	Carbon Catalysts for Electrochemical CO₂ Reduction toward Multicarbon Products. Advanced Energy Materials, 2022, 12, .	10.2	50
440	Porphyrin and phthalocyanine based covalent organic frameworks for electrocatalysis. Coordination Chemistry Reviews, 2022, 464, 214563.	9.5	72
441	<i>Operando</i> Resonant Soft X-ray Scattering Studies of Chemical Environment and Interparticle Dynamics of Cu Nanocatalysts for CO₂ Electroreduction. Journal of the American Chemical Society, 2022, 144, 8927-8931.	6.6	18
442	Research Progress of Cu₂O-Based Micro/Nanomaterials in Electrocatalytic CO₂ Reduction. Open Journal of Natural Science, 2022, 10, 236-245.	0.1	0
443	Emerging opportunities with metal-organic framework electrosynthetic platforms. Chemical Physics Reviews, 2022, 3, .	2.6	3
444	Introduction to surface-modified nanomaterials. , 2022, , xvii-xxix.		0
445	Electrodeposited Snâ€"Cu@Sn dendrites for selective electrochemical CO₂ reduction to formic acid. Nanoscale, 2022, 14, 9297-9303.	2.8	10
446	The Enhanced Local Co Concentration for Efficient Co2 Electrolysis Towards C2 Products on Tandem Active Sites. SSRN Electronic Journal, 0, , .	0.4	0
447	Dissecting Î-Conjugated Covalent-Coupling Over Conductive Mofs Toward Efficient Two-Electron Oxygen Reduction. SSRN Electronic Journal, 0, , .	0.4	0
448	Atomic Layer Infiltration Enabled Cu Coordination Environment Construction for Enhanced Electrochemical CO₂ Reduction Selectivity: Case Study of a Cu Metalâ€"Organic Framework. Chemistry of Materials, 2022, 34, 6713-6722.	3.2	10
449	The Native Oxide Skin of Liquid Metal Ga Nanoparticles Prevents Their Rapid Coalescence during Electrocatalysis. Journal of the American Chemical Society, 2022, 144, 10053-10063.	6.6	26
450	Design of experiments unravels insights into selective ethylene or methane production on evaporated Cu catalysts. Journal of Energy Chemistry, 2022, 75, 422-429.	7.1	6
451	Steering Cu-Based CO₂RR Electrocatalystsâ€™ Selectivity: Effect of Hydroxyapatite Acid/Base Moieties in Promoting Formate Production. ACS Energy Letters, 2022, 7, 2304-2310.	8.8	17
452	Total conversion of centimeter-scale nickel foam into single atom electrocatalysts with highly selective CO2 electrocatalytic reduction in neutral electrolyte. Nano Research, 2023, 16, 2003-2010.	5.8	13
453	Redoxâ€Active Crystalline Coordination Catalyst for Hybrid Electrocatalytic Methanol Oxidation and CO₂ Reduction. Angewandte Chemie, 2022, 134, .	1.6	6

#	Article	IF	Citations
454	Redoxâ€Active Crystalline Coordination Catalyst for Hybrid Electrocatalytic Methanol Oxidation and CO₂ Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
455	Electrocatalytic CO₂ reduction towards industrial applications. , 2023, 5, .		41
456	Surface Activation and Niâ€S Stabilization in NiO/NiS₂for Efficient Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	105
457	Surface Activation and Niâ€S Stabilization in NiO/NiS₂for Efficient Oxygen Evolution Reaction. Angewandte Chemie, 2022, 134, .	1.6	1
458	Polydopamine Coating of a Metalâ€“Organic Framework with Bi-Copper Sites for Highly Selective Electroreduction of CO₂ to C₂₊ Products. ACS Catalysis, 2022, 12, 7986-7993.	5.5	37
459	In-situ structural evolution of Bi₂O₃ nanoparticle catalysts for CO₂ electroreduction. International Journal of Extreme Manufacturing, 2022, 4, 035002.	6.3	12
460	Photosynthetic biohybrid coculture for tandem and tunable CO ₂ and N ₂ fixation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
461	Rationally designed nitrogen-doped carbon macroporous fibers with loading of single cobalt sites for efficient aqueous Zn-CO2 batteries. Chem Catalysis, 2022, 2, 1480-1493.	2.9	26
462	2022 roadmap on low temperature electrochemical CO₂ reduction. JPhys Energy, 2022, 4, 042003.	2.3	76
463	Steering surface reconstruction of copper with electrolyte additives for CO2 electroreduction. Nature Communications, 2022, 13, .	5.8	47
464	Electrochemical reduction of CO2 in the captured state using aqueous or nonaqueous amines. IScience, 2022, 25, 104558.	1.9	17
465	Metalated covalent organic frameworks: from synthetic strategies to diverse applications. Chemical Society Reviews, 2022, 51, 6307-6416.	18.7	109
466	Efficient Co2 Reduction to Reveal the Piezocatalytic Mechanism: From Displacement Current to Active Sites. SSRN Electronic Journal, 0, , .	0.4	0
467	Boosting electrocatalytic CO2â€“toâ€“ethanol production via asymmetric Câ€“C coupling. Nature Communications, 2022, 13, .	5.8	158
468	Atomic Bridging of Metalâ€Nitrogenâ€Carbon toward Efficient Integrated Electrocatalysis. Advanced Functional Materials, 2022, 32, .	7.8	18
469	Monolayer Molecular Functionalization Enabled by Acidâ€“Base Interaction for High-Performance Photochemical CO₂ Reduction. ACS Energy Letters, 2022, 7, 2265-2272.	8.8	15
470	DFT Study on the CO2 Reduction to C2 Chemicals Catalyzed by Fe and Co Clusters Supported on N-Doped Carbon. Nanomaterials, 2022, 12, 2239.	1.9	5
471	Performance Metrics to Compare Various CO2 Reduction Processes. Current Alternative Energy, 2022, 5, .	1.5	0

#	Article	IF	Citations
472	Boosting the Electrocatalytic CO2 Reduction Reaction by Nanostructured Metal Materials via Defects Engineering. Nanomaterials, 2022, 12, 2389.	1.9	9
473	Cu Vacancy Induced Product Switching from Formate to CO for CO₂ Reduction on Copper Sulfide. ACS Catalysis, 2022, 12, 9074-9082.	5.5	35
474	Electrochemical CO₂reduction to C₂₊products using Cu-based electrocatalysts: A review. , 2022, 1, e9120021.		112
475	Singleâ€atom catalysis for carbon neutrality. , 2022, 4, 1021-1079.		96
476	Synergetic Catalysis of Magnetic Single-Atom Catalysts Confined in Graphitic-C₃N₄/CeO₂(111) Heterojunction for CO Oxidization. Journal of Physical Chemistry Letters, 2022, 13, 6367-6375.	2.1	16
477	Electrochemical reduction of CO2 on single-atom catalysts anchored on N-terminated TiN (1 1 1): Low overpotential and high selectivity. Applied Surface Science, 2022, 602, 154239.	3.1	5
478	Constructing surface vacancy to activate the stuck MXenes for high-performance CO2 reduction reaction. Journal of CO2 Utilization, 2022, 62, 102074.	3.3	15
479	Electrocatalytic and photocatalytic sustainable conversion of carbon dioxide to value-added chemicals: State-of-the-art progress, challenges, and future directions. Journal of Environmental Chemical Engineering, 2022, 10, 108219.	3.3	17
480	Dissecting Ï€-conjugated covalent-coupling over conductive MOFs toward efficient two-electron oxygen reduction. Applied Catalysis B: Environmental, 2022, 317, 121706.	10.8	15
481	Recent progress on covalent organic framework materials as CO2 reduction electrocatalysts. Frontiers in Chemistry, 0, 10, .	1.8	6
482	Molecular Engineering of Metal Complexes for Electrocatalytic Carbon Dioxide Reduction: From Adjustment of Intrinsic Activity to Molecular Immobilization. Angewandte Chemie - International Edition, 2022, 61, .	7.2	26
483	In Situ Periodic Regeneration of Catalyst during CO₂ Electroreduction to C₂₊ Products. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
484	Plasmonics for environmental remediation and pollutant degradation. Chem Catalysis, 2022, 2, 1880-1892.	2.9	6
485	Molecular Engineering of Metal Complexes for Electrocatalytic Carbon Dioxide Reduction: From Adjustment of Intrinsic Activity to Molecular Immobilization. Angewandte Chemie, 2022, 134, .	1.6	3
486	A Nonaqueous Mgâ€CO₂ Battery with Low Overpotential. Advanced Energy Materials, 2022, 12, .	10.2	15
487	Recent Advances in Heterogeneous Electroreduction of CO2 on Copper-Based Catalysts. Catalysts, 2022, 12, 860.	1.6	11
488	Challenges and Opportunities in Electrocatalytic CO₂ Reduction to Chemicals and Fuels. Angewandte Chemie, 2022, 134, .	1.6	8
489	Microtubular electrodes: An emerging electrode configuration for electrocatalysis, bioelectrochemical and water treatment applications. Chemical Engineering Journal, 2022, 450, 138476.	6.6	11

#	Article	IF	Citations
490	Rational Manipulation of Intermediates on Copper for CO2 Electroreduction Toward Multicarbon Products. Transactions of Tianjin University, 2022, 28, 265-291.	3.3	16
491	Two atoms are better than one. , 2022, 1, 676-677.		2
492	MOF-Transformed In2O3-x@C Nanocorn Electrocatalyst for Efficient CO2 Reduction to HCOOH. Nano-Micro Letters, 2022, 14, .	14.4	35
493	Theoretical Investigation of Cuâ€"Au Alloy for Carbon Dioxide Electroreduction: Cu/Au Ratio Determining C₁/C₂ Selectivity. Journal of Physical Chemistry Letters, 2022, 13, 8002-8009.	2.1	7
494	Insight Into Heterogeneous Electrocatalyst Design Understanding for the Reduction of Carbon Dioxide. Advanced Energy Materials, 2022, 12, .	10.2	24
495	In Situ Periodic Regeneration of Catalyst during CO₂ Electroreduction to C₂₊ Products. Angewandte Chemie, 2022, 134, .	1.6	4
496	Integrated Solarâ€Driven Device with a Front Surface Semitransparent Catalysts for Unassisted CO₂ Reduction. Advanced Energy Materials, 2022, 12, .	10.2	5
497	Metalloporphyrin-Linked Mercurated Graphynes for Ultrastable CO₂ Electroreduction to CO with Nearly 100% Selectivity at a Current Density of 1.2 A cm^{â€"2}. Journal of the American Chemical Society, 2022, 144, 15143-15154.	6.6	34
498	Interfacial electric field effect on electrochemical carbon dioxide reduction reaction. Chem Catalysis, 2022, 2, 2229-2252.	2.9	29
499	Superbase and Hydrophobic Ionic Liquid Confined within Ni Foams as a Free-Standing Catalyst for CO₂ Electroreduction. ACS Applied Materials & Interfaces, 2022, 14, 38717-38726.	4.0	6
500	Boosting Electrochemical CO₂ Reduction to Methane via Tuning Oxygen Vacancy Concentration and Surface Termination on a Copper/Ceria Catalyst. ACS Catalysis, 2022, 12, 10973-10983.	5.5	34
501	Challenges and Opportunities in Electrocatalytic CO₂ Reduction to Chemicals and Fuels. Angewandte Chemie - International Edition, 2022, 61, .	7.2	62
502	Grain boundary and interface interaction Co-regulation promotes SnO2 quantum dots for efficient CO2 reduction. Chemical Engineering Journal, 2023, 451, 138477.	6.6	11
503	Catalyst Design for Electrolytic CO2 Reduction Toward Low-Carbon Fuels and Chemicals. Electrochemical Energy Reviews, 2022, 5, .	13.1	16
504	In situ Electrochemical Restructuring Integrating Corrosion Engineering to Fabricate Zn Nanosheets for Efficient CO2 Electroreduction. Electrocatalysis, 2023, 14, 29-38.	1.5	2
505	Efficient CO2 reduction to reveal the piezocatalytic mechanism: From displacement current to active sites. Applied Catalysis B: Environmental, 2023, 320, 122007.	10.8	34
506	Bulk-immiscible CuAg alloy nanorods prepared by phase transition from oxides for electrochemical CO₂ reduction. Chemical Communications, 2022, 58, 11163-11166.	2.2	24
507	Ir-Doped Co3o4 as Efficient Electrocatalyst for Acidic Oxygen Evolution Reaction. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
508	How membrane characteristics influence the performance of CO₂ and CO electrolysis. Energy and Environmental Science, 2022, 15, 4440-4469.	15.6	40
509	Simulating electric field and current density in nanostructured electrocatalysts. Physical Chemistry Chemical Physics, 2022, 24, 25695-25719.	1.3	3
510	Electrochemical carbon capture processes for mitigation of CO₂ emissions. Chemical Society Reviews, 2022, 51, 8676-8695.	18.7	38
511	Dual-Atom Cu2/N-Doped Carbon Catalyst for Electroreduction of Co2 to C2h4. SSRN Electronic Journal, 0, , .	0.4	0
512	Reaction-intermediate-induced atomic mobility in heterogeneous metal catalysts for electrochemical reduction of CO₂. Physical Chemistry Chemical Physics, 2022, 24, 19432-19442.	1.3	3
513	Chlorine anion stabilized Cu2O/ZnO photocathode for selective CO2 reduction to CH4. Applied Catalysis B: Environmental, 2023, 321, 122035.	10.8	45
514	Uncovering the Nature of Active Sites during Electrocatalytic Reactions by <i>In Situ</i> Synchrotron-Based Spectroscopic Techniques. Accounts of Chemical Research, 2022, 55, 2594-2603.	7.6	13
515	Advances in cuttingâ€edge electrode engineering towardÂCO₂ electrolysis at high current density and selectivity: A miniâ€review. , 2022, 1, 140-158.		4
516	A Potential Roadmap to Integrated Metal Organic Framework Artificial Photosynthetic Arrays. Journal of the American Chemical Society, 2022, 144, 17723-17736.	6.6	21
517	Dynamic restructuring of epitaxial Auâ€“Cu biphasic interface for tandem CO2-to-C2+ alcohol conversion. CheM, 2022, 8, 3288-3301.	5.8	20
518	Electrocatalytic Reduction of Carbon Dioxide to High-Value Multicarbon Products with Metalâ€“Organic Frameworks and Their Derived Materials. , 2022, 4, 2058-2079.		35
519	Recent Advances in <scp>Realâ€Time</scp> Analysis of Electrochemical Reactions by Electrochemical Mass Spectrometry^{â€}. Chinese Journal of Chemistry, 2023, 41, 214-224.	2.6	6
520	Recent Advances in Non-Precious Metalâ€“Nitrogenâ€“Carbon Single-Site Catalysts for CO2 Electroreduction Reaction to CO. Electrochemical Energy Reviews, 2022, 5, .	13.1	18
521	Toward abiotic sugar synthesis from CO2 electrolysis. Joule, 2022, 6, 2304-2323.	11.7	18
522	Tripleâ€Phase Interface Engineered Hierarchical Porous Electrode for CO₂ Electroreduction to Formate. Advanced Science, 2022, 9, .	5.6	10
523	Theory-Guided Modulation of Optimal Silver Nanoclusters toward Efficient CO₂ Electroreduction. ACS Applied Materials & Interfaces, 2022, 14, 43257-43264.	4.0	6
524	Adsorption Energy in Oxygen Electrocatalysis. Chemical Reviews, 2022, 122, 17028-17072.	23.0	45
525	Intermetallic Nanocrystals: Seedâ€Mediated Synthesis and Applications in Electrocatalytic Reduction Reactions. Chemistry - A European Journal, 0, , .	1.7	4

#	Article	IF	Citations
526	Modeling the Potential-Dependent Kinetics of CO₂ Electroreduction on Single-Nickel Atom Catalysts with Explicit Solvation. ACS Catalysis, 2022, 12, 11380-11390.	5.5	19
527	Surface Energy Tuning on Cu/NC Catalysts for CO Electroreduction. ACS Catalysis, 2022, 12, 12555-12562.	5.5	11
528	Perovskiteâ€Socketed Subâ€3Ânm Copper for Enhanced CO₂ Electroreduction to C₂₊. Advanced Materials, 2022, 34, .	11.1	17
529	Influence of Ag Metal Dispersion on the Catalyzed Reduction of CO₂ into Chemical Fuels over Agâ€"ZrO₂ Catalysts. ACS Omega, 2022, 7, 34213-34221.	1.6	1
530	Catalytic Processes for Removal of Emerging Water Pollutants. , 2022, , 290-325.		2
531	Exploration of the bio-analogous asymmetric Câ€"C coupling mechanism in tandem CO2 electroreduction. Nature Catalysis, 2022, 5, 878-887.	16.1	37
532	Polyoxometalate-based nanostructures for electrocatalytic and photocatalytic CO ₂ reduction. , 2022, 1, 9140006.		56
533	Revealing the Behavior of Interfacial Water in Te-Doped Bi via Operando Infrared Spectroscopy for Improving Electrochemical CO₂ Reduction. ACS Catalysis, 2022, 12, 11294-11300.	5.5	17
534	Continuous CO2 electrolysis using a CO2 exsolution-induced flow cell. Nature Energy, 2022, 7, 978-988.	19.8	60
535	Aluminum-Doped Mesoporous Copper Oxide Nanofibers Enabling High-Efficiency CO₂ Electroreduction to Multicarbon Products. Chemistry of Materials, 2022, 34, 9023-9030.	3.2	8
536	Recent Development of Nanostructured Nickel Metal-Based Electrocatalysts for Hydrogen Evolution Reaction: A Review. Topics in Catalysis, 2023, 66, 149-181.	1.3	4
537	Preparation of hydrophobic three-dimensional hierarchical porous zinc oxide for the promotion of electrochemical CO2 reduction. Journal of CO2 Utilization, 2022, 65, 102256.	3.3	2
538	Alloying strategies for tuning product selectivity during electrochemical CO₂reduction over Cu. Nanoscale, 2022, 14, 15560-15585.	2.8	7
539	åŸºäºŽè¿‡æ¸¡é‡‘å±žå§çŽ¯å ˆ†å¢ž„ç"µåŒ–å¦ äººŒæ°§åŒ–ç¢³è¿˜åŽŸç"ç©¶è¿›å±•. Chinese Science Bulletin, 2022, , .	0.4	0
540	Multi-twinned gold nanoparticles with tensile surface steps for efficient electrocatalytic CO2 reduction. Science China Chemistry, 0, , .	4.2	1
541	Sn Dopants with Synergistic Oxygen Vacancies Boost CO₂ Electroreduction on CuO Nanosheets to CO at Low Overpotential. ACS Nano, 2022, 16, 19210-19219.	7.3	42
542	Highâ€Rate and Selective CO₂ Electrolysis to Ethylene via Metalâ€"Organicâ€Frameworkâ€Augmented CO₂ Availability. Advanced Materials, 2022, 34, .	11.1	45
543	Spin polarization strategy to deploy proton resource over atomic-level metal sites for highly selective CO2 electrolysis. Frontiers of Chemical Science and Engineering, 2022, 16, 1772-1781.	2.3	2

#	Article	IF	Citations
544	A Cation Concentration Gradient Approach to Tune the Selectivity and Activity of CO2 Electroreduction. Angewandte Chemie, 0, , .	1.6	4
545	Emerging dual-atomic-site catalysts for electrocatalytic CO2 reduction. Science China Materials, 2022, 65, 3302-3323.	3.5	31
546	Highlyâ€Efficient CO₂ Electromethanation with Extremely Low Overpotentials on Pt/C Catalysts: Strategic Design of Multiâ€Potentialâ€Step Method. ChemElectroChem, 2022, 9, .	1.7	1
547	A Cation Concentration Gradient Approach to Tune the Selectivity and Activity of CO₂ Electroreduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
548	Structures, Scaling Relations, and Selectivities of the Copper-Based Binary Catalysts for CO₂ Reduction Reactions. Journal of Physical Chemistry C, 2022, 126, 17966-17974.	1.5	1
549	Hollow-fiber gas penetration electrodes efficiently produce renewable synthetic fuels. Frontiers in Energy, 2022, 16, 700-705.	1.2	7
550	Polyquinone Modification Promotes CO₂ Activation and Conversion to C₂₊ Products over Copper Electrode. ACS Energy Letters, 2022, 7, 4045-4051.	8.8	19
551	Progress and Understanding of CO₂/CO Electroreduction in Flow Electrolyzers. ACS Catalysis, 2022, 12, 12993-13020.	5.5	25
552	Hybrid Catalyst Coupling Single-Atom Ni and Nanoscale Cu for Efficient CO₂ Electroreduction to Ethylene. Journal of the American Chemical Society, 2022, 144, 20931-20938.	6.6	40
553	Coreâ€"Shell In/Cu₂O Nanowires Schottky Junction for Enhanced Photoelectrochemical CO₂Reduction under Visible Light. Industrial & Engineering Chemistry Research, 2022, 61, 16470-16478.	1.8	5
554	Electrochemical mass spectrometry study of the pyridine/pyridinium in the CO2 electroreduction reaction on copper electrodes. Electrochimica Acta, 2022, 436, 141445.	2.6	1
555	4-Mercaptobenzoic acid-anchored ultrafine Ag nanoparticles for efficient CO2 electrochemical reduction. Applied Surface Science, 2023, 608, 155251.	3.1	3
556	Strategies for CO2 electroreduction in cation exchange membrane electrode assembly. Chemical Engineering Journal, 2023, 453, 139826.	6.6	12
557	Deposition of Bismuth Nanoplatelets onto Graphene Foam for Electrocatalytic CO₂ Reduction. ACS Applied Nano Materials, 2022, 5, 16354-16364.	2.4	3
558	Advanced In Situ Characterization Techniques for Direct Observation of Gasâ€Involved Electrochemical Reactions. Energy and Environmental Materials, 2023, 6, .	7.3	8
559	Engineering of plasmonic gold nanocrystals through pulsed laser irradiation. Applied Physics Letters, 2022, 121, 200502.	1.5	1
560	Tandem strategy for electrochemical CO2 reduction reaction. Chem Catalysis, 2022, 2, 3395-3429.	2.9	9
561	Engineering Surface Oxophilicity of Copper for Electrochemical CO₂ Reduction to Ethanol. Advanced Science, 2023, 10, .	5.6	28

#	Article	IF	Citations
562	Recent Advances and Perspectives of Electrochemical CO2 Reduction Toward C2+ Products on Cu-Based Catalysts. Electrochemical Energy Reviews, 2022, 5, .	13.1	24
563	Dynamic ion exchange engineering BiOI-derived Bi2O2CO3 to promote CO2 electroreduction for efficient formate production. Chemical Engineering Journal, 2023, 455, 140926.	6.6	9
564	Organic molecules involved in Cu-based electrocatalysts for selective CO2 reduction to C2+ products. Materials Today Chemistry, 2023, 27, 101328.	1.7	5
565	Promoting CO2 reduction to formate selectivity on indium-doped tin oxide nanowires. Applied Surface Science, 2023, 613, 155944.	3.1	4
566	Copper/alkaline earth metal oxide interfaces for electrochemical CO2-to-alcohol conversion by selective hydrogenation. Nature Catalysis, 2022, 5, 1081-1088.	16.1	67
567	Aqueous Photoelectrochemical CO ₂ Reduction to CO and Methanol over a Silicon Photocathode Functionalized with a Cobalt Phthalocyanine Molecular Catalyst. Angewandte Chemie, 0, , .	1.6	1
568	Singleâ€Site Metalâ€"Organic Framework and Copper Foil Tandem Catalyst for Highly Selective CO₂ Electroreduction to C₂H₄. Small, 2023, 19, .	5.2	14
569	Research Progress on Graphite-Derived Materials for Electrocatalysis in Energy Conversion and Storage. Molecules, 2022, 27, 8644.	1.7	3
570	Recent status and advanced progress of tip effect induced by micro-nanostructure. Chinese Chemical Letters, 2023, 34, 108049.	4.8	5
571	Oxygenâ€Bridged Indiumâ€Nickel Atomic Pair as Dualâ€Metal Active Sites Enabling Synergistic Electrocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2023, 62, .	7.2	31
572	Tuning the C₁/C₂ Selectivity of Electrochemical CO₂ Reduction on Cuâ€"CeO₂ Nanorods by Oxidation State Control. Advanced Materials, 2023, 35, .	11.1	17
573	Molecular Catalyst with Near 100% Selectivity for CO₂ Reduction in Acidic Electrolytes. Advanced Energy Materials, 2023, 13, .	10.2	27
574	Nitrogen Defects in Porous Carbons with Adjacent Silver Nanoclusters for Efficient CO ₂ Reduction. ChemElectroChem, 2022, 9, .	1.7	0
575	Aqueous Photoelectrochemical CO₂Reduction to CO and Methanol over a Silicon Photocathode Functionalized with a Cobalt Phthalocyanine Molecular Catalyst. Angewandte Chemie - International Edition, 2023, 62, .	7.2	16
576	Oxygenâ€Bridged Indiumâ€Nickel Atomic Pair as Dualâ€Metal Active Sites Enabling Synergistic Electrocatalytic CO₂ Reduction. Angewandte Chemie, 2023, 135, .	1.6	6
577	Atomic design of bidirectional electrocatalysts for reversible Li-CO2 batteries. Materials Today, 2023, 63, 120-136.	8.3	9
578	Application of Time-Resolved Synchrotron X-ray Absorption Spectroscopy in an Energy Conversion Reaction. Journal of Physical Chemistry Letters, 2023, 14, 645-652.	2.1	1
579	Graphdiyne supported Agâ€"Cu tandem catalytic scheme for electrocatalytic reduction of CO₂to C₂₊products. Nanoscale, 2023, 15, 2106-2113.	2.8	8

#	Article	IF	Citations
580	Best practices for electrochemical reduction of carbon dioxide. Nature Sustainability, 2023, 6, 236-238.	11.5	23
581	Theoretical Screening of CO₂ Electroreduction over MOF-808-Supported Self-Adaptive Dual-Metal-Site Pairs. Inorganic Chemistry, 2023, 62, 930-941.	1.9	4
582	Asymmetrical electrohydrogenation of CO ₂ to ethanol with copperâ€“gold heterojunctions. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	29
583	Coordination Polymer Electrocatalysts Enable Efficient COâ€toâ€Acetate Conversion. Advanced Materials, 2023, 35, .	11.1	18
584	Dual-atom Cu2/N-doped carbon catalyst for electroreduction of CO2 to C2H4. Applied Catalysis A: General, 2023, 651, 119025.	2.2	13
585	Pause electrolysis for acidic CO2 reduction on 3-dimensional Cu. Materials Reports Energy, 2023, 3, 100173.	1.7	2
586	Supported single-atom catalysts in carbon dioxide electrochemical activation and reduction. , 2023, , 547-560.		0
587	Modulation of Nanobubble Behaviors through Ionic Liquids during CO₂ Electroreduction. ACS Sustainable Chemistry and Engineering, 2023, 11, 1909-1916.	3.2	2
588	Localized Geometry Determined Selectivity of Iodideâ€Derived Copper for Electrochemical CO₂ Reduction. Advanced Energy Materials, 2023, 13, .	10.2	20
589	Electrochemical CO2 reduction catalyzed by organic/inorganic hybrids. EScience, 2023, 3, 100097.	25.0	15
590	Ir-doped Co3O4 as efficient electrocatalyst for acidic oxygen evolution reaction. International Journal of Hydrogen Energy, 2023, 48, 14642-14649.	3.8	14
591	Steering CO₂electroreduction selectivity towards CH₄and C₂H₄on a tannic acid-modified Cu electrode. Materials Chemistry Frontiers, 2023, 7, 1395-1402.	3.2	3
592	Highly Tunable Syngas Product Ratios Enabled by Novel Nanoscale Hybrid Electrolytes Designed for Combined CO₂ Capture and Electrochemical Conversion. Advanced Functional Materials, 2023, 33, .	7.8	2
593	Assembly and electrocatalytic CO2 reduction of two-dimensional bimetallic porphyrin-based conjugated cobalt metal-organic framework. Electrochimica Acta, 2023, 443, 141896.	2.6	4
594	Reversion of catalyst valence states for highly efficient water oxidation. Catalysis Science and Technology, 0, , .	2.1	1
595	Cu⁺-Mediated CO Coordination for Promoting Câ€“C Coupling for CO₂ and CO Electroreduction. ACS Applied Materials & Interfaces, 2023, 15, 13228-13237.	4.0	4
596	Progress on Cu-based metal-organic frameworks for high-efficiency electrochemical CO2 conversion. Chemical Engineering Journal, 2023, 460, 141803.	6.6	7
597	Stable CuIn alloy for electrochemical CO2 reduction to CO with high-selectivity. Materials Today Physics, 2023, 33, 101050.	2.9	6

#	Article	IF	Citations
598	Designing Nâ€Confused Metalloporphyrinâ€Based Covalent Organic Frameworks for Enhanced Electrocatalytic Carbon Dioxide Reduction. Small, 2023, 19, .	5.2	5
599	An exploration on CO faradaic efficiency with catalyst surface wettability ranging from hydrophilic to superhydrophobic. Chemical Engineering Journal, 2023, 461, 141945.	6.6	0
600	Construction of amorphous/crystalline heterointerfaces for enhanced electrochemical processes. EScience, 2023, 3, 100112.	25.0	24
601	Deciphering mass transport behavior in membrane electrode assembly by manipulating porous structures of atomically dispersed Metal-Nx catalysts for High-Efficiency electrochemical CO2 conversion. Chemical Engineering Journal, 2023, 464, 142593.	6.6	5
602	Electro-enzyme coupling systems for selective reduction of CO2. Journal of Energy Chemistry, 2023, 80, 140-162.	7.1	10
603	Current status of carbon capture, utilization, and storage technologies in the global economy: A survey of technical assessment. Fuel, 2023, 342, 127776.	3.4	57
604	Monotonically increasing relationship between conversion selectivity from CO2 to CO and the interface area of Cu-Ag biphasic electrochemical catalyst. Journal of Alloys and Compounds, 2023, 947, 169638.	2.8	4
605	Recent advances in nanoengineering 2D metal-based materials for electrocatalytic conversion of carbon dioxide into fuels and value-added products. Fuel, 2023, 343, 127873.	3.4	7
606	Hierarchically ordered porous superstructure embedded with readily accessible atomic pair sites for enhanced CO2 electroreduction. Applied Catalysis B: Environmental, 2023, 330, 122638.	10.8	7
607	Ordered Mesoporous Intermetallic Gaâ€Pt Nanoparticles: Phaseâ€Controlled Synthesis and Performance in Oxygen Reduction Electrocatalysis. Angewandte Chemie - International Edition, 2023, 62, .	7.2	22
608	Ordered Mesoporous Intermetallic Gaâ€Pt Nanoparticles: Phaseâ€Controlled Synthesis and Performance in Oxygen Reduction Electrocatalysis. Angewandte Chemie, 2023, 135, .	1.6	0
609	Deciphering engineering principle of three-phase interface for advanced gas-involved electrochemical reactions. Journal of Energy Chemistry, 2023, 80, 302-323.	7.1	11
610	Molecular Modulation of Sequestered Copper Sites for Efficient Electroreduction of Carbon Dioxide to Methane. Advanced Functional Materials, 2023, 33, .	7.8	10
611	Plasmon manipulation by post-transition metal alloying. Matter, 2023, 6, 838-854.	5.0	4
612	Pre-Equilibrium Reaction Mechanism as a Strategy to Enhance Rate and Lower Overpotential in Electrocatalysis. Journal of the American Chemical Society, 2023, 145, 3419-3426.	6.6	4
613	Constructing Robust Bi Active Sites In Situ on Î±-Bi₂O₃ for Efficient and Selective Photoreduction of CO₂ to CH₄ via Directional Transfer of Electrons. ACS Catalysis, 2023, 13, 2513-2522.	5.5	22
614	Impact of Pore Structure on Electrochemical Reduction of Carbon Dioxide in Iron- and Nitrogen-Doped Carbon Materials: Solidâ€"Liquid Interface Versus Solidâ€"Gasâ€"Liquid Triple-Phase Boundary. Journal of Physical Chemistry C, 2023, 127, 2981-2987.	1.5	1
615	Operando studies reveal active Cu nanograins for CO2 electroreduction. Nature, 2023, 614, 262-269.	13.7	189

#	Article	IF	Citations
616	Comprehensive understanding and rational regulation of microenvironment for gasâ€involving electrochemical reactions. , 2023, 5, .		4
617	N, O-coordinated Zn-MOFs for selective conversion of CO2 to formate. Applied Surface Science, 2023, 618, 156664.	3.1	6
618	Recycling Carbon Resources from Waste PET to Reduce Carbon Dioxide Emission: Carbonization Technology Review and Perspective. Journal of Renewable Materials, 2023, 11, 2085-2108.	1.1	0
619	Selective Tandem CO₂-to-C₂₊ Alcohol Conversion at a Single-Crystal Au/Cu Bimetallic Interface. Journal of Physical Chemistry C, 2023, 127, 3470-3477.	1.5	0
620	Can Metalâ€"Nitrogenâ€"Carbon Single-Atom Catalysts Boost the Electroreduction of Carbon Monoxide?. Jacs Au, 2023, 3, 943-952.	3.6	11
621	Electrochemical Câ€"N coupling of CO₂and nitrogenous small molecules for the electrosynthesis of organonitrogen compounds. Chemical Society Reviews, 2023, 52, 2193-2237.	18.7	47
622	Metalâ€Redox Bicatalysis Batteries for Energy Storage and Chemical Production. Advanced Materials, 2023, 35, .	11.1	8
623	Layer-Stacked Zn with Abundant Corners for Selective CO₂ Electroreduction to CO. ACS Applied Energy Materials, 2023, 6, 2954-2961.	2.5	7
624	CeO₂ Promotes CO₂ Electroreduction to Formate on Bi₂S₃ via Tuning of the *OCHO Intermediate. Inorganic Chemistry, 2023, 62, 4088-4096.	1.9	2
625	Kinetic Understanding of Catalytic Selectivity and Product Distribution of Electrochemical Carbon Dioxide Reduction Reaction. Jacs Au, 2023, 3, 905-918.	3.6	8
626	Rational design and synergistic effect of ultrafine Ag nanodots decorated fish-scale-like Zn nanoleaves for highly selective electrochemical CO2 reduction. Nano Research, 2023, 16, 8910-8918.	5.8	3
627	Bi₂S₃nanorods grown on multiwalled carbon nanotubes as highly active catalysts for CO₂electroreduction to formate. Physical Chemistry Chemical Physics, 2023, 25, 9198-9207.	1.3	2
628	Modulating microenvironments to enhance CO2 electroreduction performance. EScience, 2023, 3, 100119.	25.0	11
629	Feï£¿N₄Oï£¿C Nanoplates Covalently Bonding on Graphene for Efficient CO₂ Electroreduction and Znï£¿CO₂ Batteries. Advanced Functional Materials, 2023, 33, .	7.8	6
630	Solid-phase synthesis of ultra-small CuMo solid solution alloy for efficient electroreduction CO₂-to-C₂₊production. Chemical Communications, 2023, 59, 5221-5224.	2.2	5
631	Biohybrid CO ₂ electrolysis for the direct synthesis of polyesters from CO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	8
632	<i>In situ</i> formation of Cuâ€"Sn bimetallic catalysts for CO₂ electroreduction to formate with high efficiency. Catalysis Science and Technology, 2023, 13, 2303-2307.	2.1	3
633	Intrinsic carbon structural imperfections for enhancing energy conversion electrocatalysts. Chemical Engineering Journal, 2023, 466, 143060.	6.6	7

#	Article	IF	Citations
634	Coordinating the Edge Defects of Bismuth with Sulfur for Enhanced CO₂ Electroreduction to Formate. Angewandte Chemie - International Edition, 2023, 62, .	7.2	25
635	Coordinating the Edge Defects of Bismuth with Sulfur for Enhanced CO2 Electroreduction to Formate. Angewandte Chemie, 0, , .	1.6	1
636	Tandem engineering for CO2 electrolysis toward multicarbon products. Nano Research, 2023, 16, 8670-8683.	5.8	6
637	Hydroxypillar[5]areneâ€Confined Silver Nanocatalyst for Selective Electrochemical Reduction of CO₂ to Ethanol. Advanced Functional Materials, 2023, 33, .	7.8	5
648	Coordination environment engineering of single-atom catalysts for the oxygen reduction reaction. Materials Chemistry Frontiers, 2023, 7, 3595-3624.	3.2	6
663	Ligand-Controlled Electroreduction of CO₂ to Formate over Facet-Defined Bimetallic Sulfide Nanoplates. Nano Letters, 2023, 23, 5911-5918.	4.5	2
667	Progress of electrocatalytic urea synthesis: strategic design, reactor engineering, mechanistic details and techno-commercial study. Materials Chemistry Frontiers, 2023, 7, 3820-3854.	3.2	6
677	Photoelectrochemical and electrochemical CO₂ reduction to formate on post-transition metal block-based catalysts. Sustainable Energy and Fuels, 2023, 7, 2545-2567.	2.5	0
678	Nanowire photochemical diodes for artificial photosynthesis. Science Advances, 2023, 9, .	4.7	13
688	Recent progress of dual-site catalysts in emerging electrocatalysis: a review. Catalysis Science and Technology, 2023, 13, 4615-4634.	2.1	3
693	Electrochemical Carbon Dioxide Reduction to Ethylene: From Mechanistic Understanding to Catalyst Surface Engineering. Nano-Micro Letters, 2023, 15, .	14.4	11
694	Sub-nanomaterials for Photo/Electro-catalytic CO2 Reduction: Achievements, Challenges, and Opportunities. Chemical Research in Chinese Universities, 2023, 39, 580-598.	1.3	2
710	Electrochemical nitration for organic Câ€"N bond formation: a current view on possible N-sources, mechanisms, and technological feasibility. Green Chemistry, 0, , .	4.6	0
716	Unveiling the anode reaction environment in a CO₂ electrolyzer to provide a guideline for anode development. Journal of Materials Chemistry A, 2023, 11, 19312-19320.	5.2	0
724	é"œåŸºå•åŽŸåå‚¬åŒ–å‰‚ç"µå‚¬åŒ–è¿˜åŽŸäºŒæ°§åŒ–ç¢³ç š„ç"ç©¶è¿›å±•. Science China Materials, 2023, 66, 3765-3781.	6.5	2
728	Application of X-ray absorption spectroscopy in carbon-supported electrocatalysts. Nano Research, 2023, 16, 12438-12452.	5.8	2
746	Electrocatalysis with molecules and molecular assemblies within gas diffusion electrodes. Chemical Science, 2023, 14, 13696-13712.	3.7	0
766	Status and challenges for CO₂ electroreduction to CH₄: advanced catalysts and enhanced strategies. Green Chemistry, 2024, 26, 103-121.	4.6	1

#	Article	IF	Citations
773	Hollow carbon-based materials for electrocatalytic and thermocatalytic CO₂ conversion. Chemical Science, 0, , .	3.7	0
774	Application in Catalysis. , 2024, , 221-291.		0
782	Cu hollow fiber with coaxially grown Bi nanosheet arrays as an integrated gas-penetrable electrode enables high-current-density and durable formate electrosynthesis. Nanoscale, 0, , .	2.8	0
793	Recent research progress on building Câ€“N bonds <i>via</i> electrochemical NO_{<i>x</i>} reduction. Nanoscale, 2024, 16, 2805-2819.	2.8	0
803	Novel applications of photobiocatalysts in chemical transformations. RSC Advances, 2024, 14, 2590-2601.	1.7	0