

Visible-light-driven methane formation from CO₂ with

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Visible-Light Homogeneous Photocatalytic Conversion of CO ₂ into CO in Aqueous Solutions with an Iron Catalyst. <i>ChemSusChem</i> , 2017, 10, 4447-4450.	3.6	83
3	Utilization of CO ₂ as a C1 Building Block in a Tandem Asymmetric A ³ Coupling-Carboxylative Cyclization Sequence to 2-Oxazolidinones. <i>ACS Catalysis</i> , 2017, 7, 8588-8593.	5.5	71
4	Oxygen vacancies induced exciton dissociation of flexible BiOCl nanosheets for effective photocatalytic CO ₂ conversion. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24995-25004.	5.2	215
5	An Artificial Biomimetic Catalysis Converting CO ₂ to Green Fuels. <i>Nanoscale Research Letters</i> , 2017, 12, 530.	3.1	5
6	Iron Catalyzed CO ₂ Activation with Organosilanes. <i>Catalysis Letters</i> , 2018, 148, 1162-1168.	1.4	10
7	Boosting Interfacial Interaction in Hierarchical Core-Shell Nanostructure for Highly Effective Visible Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6137-6143.	1.5	15
8	Design of Single-Atom Co ^{N5} Catalytic Site: A Robust Electrocatalyst for CO ₂ Reduction with Nearly 100% CO Selectivity and Remarkable Stability. <i>Journal of the American Chemical Society</i> , 2018, 140, 4218-4221.	6.6	945
9	High-yield synthesis of vaterite microparticles in gypsum suspension system via ultrasonic probe vibration/magnetic stirring. <i>Journal of Crystal Growth</i> , 2018, 492, 122-131.	0.7	22
10	Boron Carbon Nitride Semiconductors Decorated with CdS Nanoparticles for Photocatalytic Reduction of CO ₂ . <i>ACS Catalysis</i> , 2018, 8, 4928-4936.	5.5	413
11	Visible-Light-Driven Photoreduction of CO ₂ to CH ₄ over N,O,P-Containing Covalent Organic Polymer Submicrospheres. <i>ACS Catalysis</i> , 2018, 8, 4576-4581.	5.5	99
12	Recent Advances in Photocatalytic CO ₂ Reduction Using Earth-Abundant Metal Complexes-Derived Photocatalysts. <i>Chinese Journal of Chemistry</i> , 2018, 36, 455-460.	2.6	37
13	Recent progress on advanced design for photoelectrochemical reduction of CO ₂ to fuels. <i>Science China Materials</i> , 2018, 61, 771-805.	3.5	172
14	Snapshots of Light Induced Accumulation of Two Charges on Methylviologen using a Sequential Nanosecond Pump-Pump Photoexcitation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1086-1091.	2.1	22
15	Electrocatalytic and Photocatalytic Reduction of CO ₂ to CO by Cobalt(II) Tripodal Complexes: Low Overpotentials, High Efficiency and Selectivity. <i>ChemSusChem</i> , 2018, 11, 1025-1031.	3.6	77
16	Direct CO ₂ Addition to a Ni(0)-CO Species Allows the Selective Generation of a Nickel(II) Carboxylate with Expulsion of CO. <i>Journal of the American Chemical Society</i> , 2018, 140, 2179-2185.	6.6	52
17	Stable and Highly Efficient Electrochemical Production of Formic Acid from Carbon Dioxide Using Diamond Electrodes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2639-2643.	7.2	121
18	Highly Efficient Photocatalytic System Constructed from CoP/Carbon Nanotubes or Graphene for Visible-Light-Driven CO ₂ Reduction. <i>Chemistry - A European Journal</i> , 2018, 24, 4273-4278.	1.7	47
19	Advanced Architectures and Relatives of Air Electrodes in Zn-Air Batteries. <i>Advanced Science</i> , 2018, 5, 1700691.	5.6	645

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20	Stable and Highly Efficient Electrochemical Production of Formic Acid from Carbon Dioxide Using Diamond Electrodes. <i>Angewandte Chemie</i> , 2018, 130, 2669-2673.	1.6	24
21	Reaction mechanisms of catalytic photochemical CO ₂ reduction using Re(I) and Ru(II) complexes. <i>Coordination Chemistry Reviews</i> , 2018, 373, 333-356.	9.5	212
22	Reticular Electronic Tuning of Porphyrin Active Sites in Covalent Organic Frameworks for Electrocatalytic Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 1116-1122.	6.6	457
23	The synergistic catalysis effect within a dinuclear nickel complex for efficient and selective electrocatalytic reduction of CO ₂ to CO. <i>Green Chemistry</i> , 2018, 20, 798-803.	4.6	60
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25	Ambient chemical fixation of CO ₂ using a highly efficient heterometallic helicate catalyst system. <i>Chemical Communications</i> , 2018, 54, 2212-2215.	2.2	83
26	Homogeneously Catalyzed Electroreduction of Carbon Dioxide—Methods, Mechanisms, and Catalysts. <i>Chemical Reviews</i> , 2018, 118, 4631-4701.	23.0	858
27	Undercoordinated Site-Abundant and Tensile-Strained Nickel for Low-Temperature CO ₂ Methanation. <i>ACS Catalysis</i> , 2018, 8, 1207-1211.	5.5	34
28	Photocatalytically Active Superstructures of Quantum Dots and Iron Porphyrins for Reduction of CO ₂ to CO in Water. <i>ACS Nano</i> , 2018, 12, 568-575.	7.3	139
29	The chemical identity, state and structure of catalytically active centers during the electrochemical CO ₂ reduction on porous Fe–nitrogen–carbon (Fe–N–C) materials. <i>Chemical Science</i> , 2018, 9, 5064-5073.	3.7	128
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33	Two-electron oxidation of water to form hydrogen peroxide catalysed by silicon-porphyrins. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1966-1973.	2.5	24
34	Emerging Earth-abundant (Fe, Co, Ni, Cu) molecular complexes for solar fuel catalysis. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 10, 60-67.	3.2	11
35	Two-Electron Oxidation of Water Through One-Photon Excitation of Aluminium Porphyrins: Molecular Mechanism and Detection of Key Intermediates. <i>ChemPhotoChem</i> , 2018, 2, 240-248.	1.5	21
36	Nachhaltige Produktion von Methan aus CO ₂ mithilfe von Sonnenlicht. <i>Angewandte Chemie</i> , 2018, 130, 44-46.	1.6	6
37	Renewable Methane Generation from Carbon Dioxide and Sunlight. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 44-45.	7.2	61

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40	Eosin ³⁻ -Functionalized Conjugated Organic Polymers for Visible-Light-Driven CO ₂ Reduction with H ₂ O to CO with High Efficiency. Angewandte Chemie, 2019, 131, 642-646.	1.6	19
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42	Nickel Metal-Organic Framework Monolayers for Photoreduction of Diluted CO ₂ : Metal-Node-Dependent Activity and Selectivity. Angewandte Chemie, 2018, 130, 17053-17057.	1.6	54
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44	Function-Integrated Ru Catalyst for Photochemical CO ₂ Reduction. Journal of the American Chemical Society, 2018, 140, 16899-16903.	6.6	60
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61	Dimension-matched plasmonic Au/TiO ₂ /BiVO ₄ nanocomposites as efficient wide-visible-light photocatalysts to convert CO ₂ and mechanistic insights. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11838-11845.	5.2	72
62	Low-overpotential CO ₂ reduction by a phosphine-substituted Ru(<i>η</i> ⁵ -Cp)(<i>η</i> ⁵ -Cp*) polypyridyl complex. <i>Chemical Communications</i> , 2018, 54, 6915-6918.	2.2	30
63	Low-Temperature CO ₂ Methanation over CeO ₂ -Supported Ru Single Atoms, Nanoclusters, and Nanoparticles Competitively Tuned by Strong Metal-Support Interactions and H-Spillover Effect. <i>ACS Catalysis</i> , 2018, 8, 6203-6215.	5.5	582
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65	Photocatalytic CO ₂ Transformation to CH ₄ by Ag/Pd Bimetals Supported on N-Doped TiO ₂ Nanosheet. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24516-24522.	4.0	99
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70	Tannic acid-assisted fabrication of Fe-Pd nanoparticles for stable rapid dechlorination of two organochlorides. <i>Chemical Engineering Journal</i> , 2018, 352, 716-721.	6.6	20
71	Highly efficient visible-light driven solar-fuel production over tetra(4-carboxyphenyl)porphyrin iron(III) chloride using CdS/Bi ₂ S ₃ heterostructure as photosensitizer. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 656-663.	10.8	80
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73	Study on the electronic structures and transport properties of the polyporphyrin nanoribbons with different edge configurations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 2769-2775.	0.9	11

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109	Topics of Environmental Sciences. , 2019, , 255-260.		0

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127	Highly Selective Photoreduction of CO ₂ with Suppressing H ₂ Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600–...nm. Angewandte Chemie - International Edition, 2019, 58, 11860-11867.	7.2	224

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567	Tailored Persistent Radical-Containing Heterotrimetal-Organic Framework for Boosting Efficiency of Visible/NIR Light-Driven Photocatalytic CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	7
568	Highly efficient and highly selective CO ₂ reduction to CO driven by laser. <i>Joule</i> , 2022, 6, 2735-2744.	11.7	11
569	Metal-Organic Framework-Based Photocatalysis for Solar Fuel Production. <i>Small Methods</i> , 2023, 7, .	4.6	43
570	1/4-Oxo Dimerization Effects on Ground- and Excited-State Properties of a Water-Soluble Iron Porphyrin CO ₂ Reduction Catalyst. <i>Inorganic Chemistry</i> , 2022, 61, 20493-20500.	1.9	0
571	Synergistic Porosity and Charge Effects in a Supramolecular Porphyrin Cage Promote Efficient Photocatalytic CO ₂ Reduction**. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	15
572	Wurtzite CuGaS ₂ with an In-Situ-Formed CuO Layer Photocatalyzes CO ₂ Conversion to Ethylene with High Selectivity. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	13
573	Gallium Nitride-based Materials as Promising Catalysts for CO ₂ Reduction: A DFT Study on the Effect of CO ₂ Coverage and the Incorporation of Mg Doping or Substitutional In. <i>ChemCatChem</i> , 2023, 15, .	1.8	4
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575	Synthesis of the CeO ₂ Support with a Honeycomb-Lantern-like Structure and Its Application in Dry Reforming of Methane Based on the Surface Spatial Confinement Strategy. <i>Journal of Physical Chemistry C</i> , 2023, 127, 1032-1048.	1.5	5
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577	Ultrathin metal-organic layers/carbon nitride nanosheet composites as 2D/2D heterojunctions for efficient CO ₂ photoreduction. <i>Journal of Materials Chemistry A</i> , 2023, 11, 2225-2232.	5.2	8
578	Electrocatalysis Mechanism and Structure-Activity Relationship of Atomically Dispersed Metal-Nitrogen-Carbon Catalysts for Electrocatalytic Reactions. <i>Small Methods</i> , 2023, 7, .	4.6	7
579	Electrochemical organic reactions: A tutorial review. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	11
580	Theoretical Screening of CO ₂ Electroreduction over MOF-808-Supported Self-Adaptive Dual-Metal-Site Pairs. <i>Inorganic Chemistry</i> , 2023, 62, 930-941.	1.9	4
581	Facilitated Photocatalytic CO ₂ Reduction in Aerobic Environment on a Copper-Porphyrin Metal-Organic Framework. <i>Angewandte Chemie</i> , 0, , .	1.6	1
582	Facilitated Photocatalytic CO ₂ Reduction in Aerobic Environment on a Copper-Porphyrin Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	21
583	Engineering covalently integrated COF@CeO ₂ Z-scheme heterostructure for visible light driven photocatalytic CO ₂ conversion. <i>Applied Surface Science</i> , 2023, 615, 156335.	3.1	4

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585	Emerging Ru-Co homogeneous-heterogeneous photocatalytic CO ₂ reduction systems. <i>Materials Research Bulletin</i> , 2023, 161, 112145.	2.7	4
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587	Porphyrins Acting as Photosensitizers in the Photocatalytic CO ₂ Reduction Reaction. <i>Catalysts</i> , 2023, 13, 282.	1.6	8
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604	Designing Heteroatom-Codoped Iron Metal-Organic Framework for Promotional Photoreduction of Carbon Dioxide to Ethylene. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
605	Designing Heteroatom-Codoped Iron Metal-Organic Framework for Promotional Photoreduction of Carbon Dioxide to Ethylene. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	27
606	Converting CO ₂ into Value-Added Products by Cu ₂ O-Based Catalysts: From Photocatalysis, Electrocatalysis to Photoelectrocatalysis. <i>Small</i> , 2023, 19, .	5.2	33
607	Highly Selective Photoelectroreduction of Carbon Dioxide to Ethanol over Graphene/Silicon Carbide Composites. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	7
608	Molecular Characteristics of Water-Insoluble Tin-Porphyrins for Designing the One-Photon-Induced Two-Electron Oxidation of Water in Artificial Photosynthesis. <i>Molecules</i> , 2023, 28, 1882.	1.7	5
609	Progress, challenge and significance of building a carbon industry system in the context of carbon neutrality strategy. <i>Petroleum Exploration and Development</i> , 2023, 50, 210-228.	3.0	13
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614	Spin Manipulation in a Metal-Organic Layer through Mechanical Exfoliation for Highly Selective CO ₂ Photoreduction. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
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616	Integrating Dual-Metal Sites into Covalent Organic Frameworks for Enhanced Photocatalytic CO ₂ Reduction. <i>ACS Catalysis</i> , 2023, 13, 4316-4329.	5.5	42
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