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## Toward solar-driven carbon recycling

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#	Paper	IF	Citations
53	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion.. <i>Advanced Materials</i> , <b>2022</b> , e2200180	24	18
52	Controllable synthesized step-scheme heterojunction of CuBi <sub>2</sub> O <sub>4</sub> decorated WO <sub>3</sub> plates for visible-light-driven CO <sub>2</sub> reduction. <i>Nano Research</i> , 1	10	1
51	Photothermal tandem catalysis for CO <sub>2</sub> hydrogenation to methanol. <i>CheM</i> , <b>2022</b> , 8, 1181-1183	16.2	1
50	1d / 0d H-Bs Nts/Czs-X Heterojunction with Strong Interfacial Electric Field Coupling Enhanced Mass Transfer Based on Gas-Liquid-Solid Micro Interface Contact for Efficient Photothermal Synergistic Catalytic Co <sub>2</sub> Reduction to Syngas. <i>SSRN Electronic Journal</i> ,	1	
49	Multi-channel charge transfer of hierarchical TiO <sub>2</sub> nanosheets encapsulated MIL-125(Ti) hollow nanodisks sensitized by ZnSe for efficient CO <sub>2</sub> photoreduction. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> ,	9.3	1
48	Ethanol Electro-oxidation Reaction Selectivity on Platinum in Aqueous Media. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1
47	Surface decorated Ni sites for superior photocatalytic hydrogen production.		2
46	Low-Coordination Single Au Atoms on Ultrathin ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets for Selective Photocatalytic CO <sub>2</sub> Reduction towards CH <sub>4</sub> .		1
45	Atomically Dispersed Indium-Copper Dual-Metal Active Sites Promoting C <sub>1</sub> Coupling for CO <sub>2</sub> Photoreduction to Ethanol.		
44	Atomically Dispersed Indium-Copper Dual-Metal Active Sites Promoting C <sub>1</sub> Coupling for CO <sub>2</sub> Photoreduction to Ethanol.		12
43	Rational fabrication of cadmium-sulfide/graphitic-carbon-nitride/hematite photocatalyst with type II and Z-scheme tandem heterojunctions to promote photocatalytic carbon dioxide reduction. <b>2022</b> , 628, 129-140		3
42	2022 Pioneers in Energy Research: Jinhua Ye. <b>2022</b> , 36, 11269-11274		1
41	Unveiling the Difference in the Activity and Selectivity of Nickel Based Cocatalysts for Co <sub>2</sub> Photoreduction.		0
40	Design and application of g-C <sub>3</sub> N <sub>4</sub> -based materials for fuels photosynthesis from CO <sub>2</sub> or H <sub>2</sub> O based on reaction pathway insights. <b>2023</b> , 629, 825-846		0
39	Lattice Distortion Engineering over Ultrathin Monoclinic BiVO <sub>4</sub> Nanoflakes Triggering AQE up to 69.4% in Visible-Light-Driven Water Oxidation. 2206811		1
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37	Low-Coordination Single Au Atoms on Ultrathin ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets for Selective Photocatalytic CO <sub>2</sub> Reduction towards CH <sub>4</sub> . <b>2022</b> , 61,		6

36	Bicomponent Cocatalyst Decoration on Flux-assisted CaTaO <sub>2</sub> N Single Crystals for Photocatalytic CO <sub>2</sub> Reduction under Visible Light.	0
35	Crystalline MoS <sub>2</sub> -enhanced conductive black titania for efficient solar to chemical energy conversion: photocatalytic CO <sub>2</sub> reduction and CH <sub>4</sub> oxidation.	0
34	Black Phosphorus Boosted Bismuth Chloride Oxide for Efficient Photocatalytic CO <sub>2</sub> Reduction.	0
33	Targeted H <sub>2</sub> O activation to manipulate the selective photocatalytic reduction of CO <sub>2</sub> to CH <sub>3</sub> OH over carbon nitride-supported cobalt sulfide.	1
32	Structures, Scaling Relations, and Selectivities of the Copper-Based Binary Catalysts for CO <sub>2</sub> Reduction Reactions. <b>2022</b> , 126, 17966-17974	0
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28	Plasmonic Metal Mediated Charge Transfer in Stacked Core/Shell Semiconductor Heterojunction for Significantly Enhanced CO <sub>2</sub> Photoreduction. 2204774	4
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- 17 Heterostructured nanocatalysts to boost the hydrogen evolution reaction in neutral electrolyte. **2023**, 100499 ○
- 16 Porous Single Crystals at the Macroscale: From Growth to Application. **2023**, 56, 374-384 ○
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- 8 Sensitivity analysis and exergoeconomic optimization of an improved He-CO<sub>2</sub> cascade Brayton cycle for concentrated solar power. **2023**, 279, 116756 ○
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