

# Xiaodong Li

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

5,560  
citations

186265  
28  
h-index

315739  
38  
g-index

38  
all docs

38  
docs citations

38  
times ranked

4701  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective visible-light-driven photocatalytic CO <sub>2</sub> reduction to CH <sub>4</sub> mediated by atomically thin CuIn <sub>5</sub> S <sub>8</sub> layers. <i>Nature Energy</i> , 2019, 4, 690-699.	39.5	948
2	Defect-Mediated Electron-Hole Separation in One-Unit-Cell ZnIn <sub>2</sub> S <sub>4</sub> Layers for Boosted Solar-Driven CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 7586-7594.	13.7	764
3	Efficient Visible-Light-Driven CO <sub>2</sub> Reduction Mediated by Defect-Engineered BiOBr Atomic Layers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8719-8723.	13.8	439
4	Partially Oxidized SnS <sub>2</sub> Atomic Layers Achieving Efficient Visible-Light-Driven CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 18044-18051.	13.7	368
5	Efficient and Robust Carbon Dioxide Electroreduction Enabled by Atomically Dispersed Sn <sup>I</sup> Sites. <i>Advanced Materials</i> , 2019, 31, e1808135.	21.0	321
6	Infrared Light-Driven CO <sub>2</sub> Overall Splitting at Room Temperature. <i>Joule</i> , 2018, 2, 1004-1016.	24.0	258
7	Fundamentals and challenges of ultrathin 2D photocatalysts in boosting CO <sub>2</sub> photoreduction. <i>Chemical Society Reviews</i> , 2020, 49, 6592-6604.	38.1	220
8	Carbon Dioxide Electroreduction into Syngas Boosted by a Partially Delocalized Charge in Molybdenum Sulfide Selenide Alloy Monolayers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9121-9125.	13.8	205
9	Photocatalytic Conversion of Waste Plastics into C <sub>2</sub> Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15497-15501.	13.8	198
10	Carbon Dioxide Electroreduction into Syngas Boosted by a Partially Delocalized Charge in Molybdenum Sulfide Selenide Alloy Monolayers. <i>Angewandte Chemie</i> , 2017, 129, 9249-9253.	2.0	154
11	Ultrastable and Efficient Visible-Light-Driven CO <sub>2</sub> Reduction Triggered by Regenerative Oxygen Vacancies in Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13840-13846.	13.8	152
12	Rational design of electrocatalytic carbon dioxide reduction for a zero-carbon network. <i>Chemical Society Reviews</i> , 2022, 51, 1234-1252.	38.1	148
13	Ultrathin Conductor Enabling Efficient IR Light CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 423-430.	13.7	146
14	Asymmetric Triple-Atom Sites Confined in Ternary Oxide Enabling Selective CO <sub>2</sub> Photothermal Reduction to Acetate. <i>Journal of the American Chemical Society</i> , 2021, 143, 18233-18241.	13.7	130
15	Progress and Perspective for In Situ Studies of CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 9567-9581.	13.7	125
16	Efficient Visible-Light-Driven CO <sub>2</sub> Reduction Mediated by Defect-Engineered BiOBr Atomic Layers. <i>Angewandte Chemie</i> , 2018, 130, 8855-8859.	2.0	124
17	CVD synthesis of Mo <sub>(1-x)</sub> W <sub>x</sub> S <sub>2</sub> and MoS <sub>2</sub> (1-x)Se <sub>2x</sub> alloy monolayers aimed at tuning the bandgap of molybdenum disulfide. <i>Nanoscale</i> , 2015, 7, 13554-13560.	5.6	103
18	Efficient infrared light induced CO <sub>2</sub> reduction with nearly 100% CO selectivity enabled by metallic CoN porous atomic layers. <i>Nano Energy</i> , 2020, 69, 104421.	16.0	88

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19	Industrial-Current-Density CO <sub>2</sub> -to-C <sub>2+</sub> Electroreduction by Anti-swelling Anion-Exchange Ionomer-Modified Oxide-Derived Cu Nanosheets. <i>Journal of the American Chemical Society</i> , 2022, 144, 10446-10454.	13.7	87
20	Opportunity of Atomically Thin Two-Dimensional Catalysts for Promoting CO <sub>2</sub> Electroreduction. <i>Accounts of Chemical Research</i> , 2020, 53, 2964-2974.	15.6	72
21	Selective CO <sub>2</sub> Photoreduction into C <sub>2</sub> Product Enabled by Charge-Polarized Metal Pair Sites. <i>Nano Letters</i> , 2021, 21, 2324-2331.	9.1	71
22	Efficient Photooxidation of Methane to Liquid Oxygenates over ZnO Nanosheets at Atmospheric Pressure and Near Room Temperature. <i>Nano Letters</i> , 2021, 21, 4122-4128.	9.1	60
23	Ni-doped ZnCo <sub>2</sub> O <sub>4</sub> atomic layers to boost the selectivity in solar-driven reduction of CO <sub>2</sub> . <i>Nano Research</i> , 2018, 11, 2897-2908.	10.4	55
24	Plastics-to-syngas photocatalysed by Co <sup>2+</sup> /Ga <sub>2</sub> O <sub>3</sub> nanosheets. <i>National Science Review</i> , 2022, 9, .	9.5	42
25	Visible-Light-Driven Overall Water Splitting Boosted by Tetrahedrally Coordinated Blende Cobalt(II) Oxide Atomic Layers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3032-3036.	13.8	41
26	Nature-Mimic ZnO Nanoflowers Architecture: Chalcogenide Quantum Dots Coupling with ZnO/ZnTiO <sub>3</sub> Nanoheterostructures for Efficient Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21096-21104.	3.1	32
27	Dark energy and fate of the Universe. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1330-1334.	5.1	31
28	Metal <sup>+</sup> -Metal <sup>+</sup> pair sites steer C-C coupling for selective CO <sub>2</sub> photoreduction to C <sub>2</sub> hydrocarbons. <i>Nano Research</i> , 2022, 15, 1882-1891.	10.4	31
29	In-plane heterostructured Ag <sub>2</sub> S-In <sub>2</sub> S <sub>3</sub> atomic layers enabling boosted CO <sub>2</sub> photoreduction into CH <sub>4</sub> . <i>Nano Research</i> , 2021, 14, 4520-4527.	10.4	24
30	Testing modified gravity models with recent cosmological observations. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 2244-2258.	5.1	20
31	Visible-Light-Driven Overall Water Splitting Boosted by Tetrahedrally Coordinated Blende Cobalt(II) Oxide Atomic Layers. <i>Angewandte Chemie</i> , 2019, 131, 3064-3068.	2.0	17
32	Photocatalytic Conversion of Waste Plastics into C <sub>2</sub> Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie</i> , 2020, 132, 15627-15631.	2.0	17
33	Mechanism of the Significant Acceleration of Polyethylene Terephthalate Glycolysis by Defective Ultrathin ZnO Nanosheets with Heteroatom Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5476-5488.	6.7	15
34	Ultrastable and Efficient Visible-Light-Driven CO <sub>2</sub> Reduction Triggered by Regenerative Oxygen Vacancies in Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 13959-13965.	2.0	14
35	Probing reaction pathways for H <sub>2</sub> O-mediated HCHO photooxidation at room temperature. <i>Nano Research</i> , 2021, 14, 1471-1478.	10.4	12
36	Synergy of Fe dopants and oxygen vacancies confined in atomically-thin cobaltous oxide sheets for high-efficiency CO <sub>2</sub> photoreduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22353-22363.	10.3	12

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37	Industrial-current-density CO <sub>2</sub> -to-formate conversion with low overpotentials enabled by disorder-engineered metal sites. <i>Nano Research</i> , 2022, 15, 6999-7007.	10.4	9
38	Constructing artificial mimic-enzyme catalysts for carbon dioxide electroreduction. <i>Science China Chemistry</i> , 2022, 65, 106-113.	8.2	7