

Xiaodong Li

List of Publications by Year in descending order

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38
papers

5,560
citations

186265

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315739

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docs citations

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times ranked

4701
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal ⁿ⁺ -Metal ^{l+} pair sites steer C-C coupling for selective CO ₂ photoreduction to C ₂ hydrocarbons. Nano Research, 2022, 15, 1882-1891.	10.4	31
2	Constructing artificial mimic-enzyme catalysts for carbon dioxide electroreduction. Science China Chemistry, 2022, 65, 106-113.	8.2	7
3	Plastics-to-syngas photocatalysed by Co ²⁺ /Ga ₂ O ₃ nanosheets. National Science Review, 2022, 9, .	9.5	42
4	Rational design of electrocatalytic carbon dioxide reduction for a zero-carbon network. Chemical Society Reviews, 2022, 51, 1234-1252.	38.1	148
5	Mechanism of the Significant Acceleration of Polyethylene Terephthalate Glycolysis by Defective Ultrathin ZnO Nanosheets with Heteroatom Doping. ACS Sustainable Chemistry and Engineering, 2022, 10, 5476-5488.	6.7	15
6	Industrial-current-density CO ₂ -to-formate conversion with low overpotentials enabled by disorder-engineered metal sites. Nano Research, 2022, 15, 6999-7007.	10.4	9
7	Industrial-Current-Density CO ₂ -to-C ₂₊ Electroreduction by Anti-swelling Anion-Exchange Ionomer-Modified Oxide-Derived Cu Nanosheets. Journal of the American Chemical Society, 2022, 144, 10446-10454.	13.7	87
8	Probing reaction pathways for H ₂ O-mediated HCHO photooxidation at room temperature. Nano Research, 2021, 14, 1471-1478.	10.4	12
9	Synergy of Fe dopants and oxygen vacancies confined in atomically-thin cobaltous oxide sheets for high-efficiency CO ₂ photoreduction. Journal of Materials Chemistry A, 2021, 9, 22353-22363.	10.3	12
10	Selective CO ₂ Photoreduction into C ₂₊ Product Enabled by Charge-Polarized Metal Pair Sites. Nano Letters, 2021, 21, 2324-2331.	9.1	71
11	In-plane heterostructured Ag ₂ S-In ₂ S ₃ atomic layers enabling boosted CO ₂ photoreduction into CH ₄ . Nano Research, 2021, 14, 4520-4527.	10.4	24
12	Efficient Photooxidation of Methane to Liquid Oxygenates over ZnO Nanosheets at Atmospheric Pressure and Near Room Temperature. Nano Letters, 2021, 21, 4122-4128.	9.1	60
13	Ultrastable and Efficient Visible-Light-Driven CO ₂ Reduction Triggered by Regenerative Oxygen Vacancies in Bi ₂ O ₃ /CO ₃ Nanosheets. Angewandte Chemie - International Edition, 2021, 60, 13840-13846.	13.8	152
14	Ultrastable and Efficient Visible-Light-Driven CO ₂ Reduction Triggered by Regenerative Oxygen Vacancies in Bi ₂ O ₃ /CO ₃ Nanosheets. Angewandte Chemie, 2021, 133, 13959-13965.	2.0	14
15	Asymmetric Triple-Atom Sites Confined in Ternary Oxide Enabling Selective CO ₂ Photothermal Reduction to Acetate. Journal of the American Chemical Society, 2021, 143, 18233-18241.	13.7	130
16	Efficient infrared light induced CO ₂ reduction with nearly 100% CO selectivity enabled by metallic Co _N porous atomic layers. Nano Energy, 2020, 69, 104421.	16.0	88
17	Opportunity of Atomically Thin Two-Dimensional Catalysts for Promoting CO ₂ Electroreduction. Accounts of Chemical Research, 2020, 53, 2964-2974.	15.6	72
18	Fundamentals and challenges of ultrathin 2D photocatalysts in boosting CO ₂ photoreduction. Chemical Society Reviews, 2020, 49, 6592-6604.	38.1	220

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19	Photocatalytic Conversion of Waste Plastics into C ₂ Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie</i> , 2020, 132, 15627-15631.	2.0	17
20	Progress and Perspective for In Situ Studies of CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 9567-9581.	13.7	125
21	Photocatalytic Conversion of Waste Plastics into C ₂ Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15497-15501.	13.8	198
22	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
23	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
24	Selective visible-light-driven photocatalytic CO ₂ reduction to CH ₄ mediated by atomically thin CuIn ₅ S ₈ layers. <i>Nature Energy</i> , 2019, 4, 690-699.	39.5	948
25	Efficient and Robust Carbon Dioxide Electroreduction Enabled by Atomically Dispersed Sn ⁺ Sites. <i>Advanced Materials</i> , 2019, 31, e1808135.	21.0	321
26	Ultrathin Conductor Enabling Efficient IR Light CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 423-430.	13.7	146
27	Ni-doped ZnCo ₂ O ₄ atomic layers to boost the selectivity in solar-driven reduction of CO ₂ . <i>Nano Research</i> , 2018, 11, 2897-2908.	10.4	55
28	Infrared Light-Driven CO ₂ Overall Splitting at Room Temperature. <i>Joule</i> , 2018, 2, 1004-1016.	24.0	258
29	Efficient Visible-Light-Driven CO ₂ Reduction Mediated by Defect-Engineered BiOBr Atomic Layers. <i>Angewandte Chemie</i> , 2018, 130, 8855-8859.	2.0	124
30	Efficient Visible-Light-Driven CO ₂ Reduction Mediated by Defect-Engineered BiOBr Atomic Layers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8719-8723.	13.8	439
31	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
32	Defect-Mediated Electron-Hole Separation in One-Unit-Cell ZnIn ₂ S ₄ Layers for Boosted Solar-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 7586-7594.	13.7	764
33	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
34	Nature-Mimic ZnO Nanoflowers Architecture: Chalcogenide Quantum Dots Coupling with ZnO/ZnTiO ₃ Nanoheterostructures for Efficient Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21096-21104.	3.1	32
35	Partially Oxidized SnS ₂ Atomic Layers Achieving Efficient Visible-Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 18044-18051.	13.7	368
36	CVD synthesis of Mo _(1-x) W _x S ₂ and MoS ₂ (1-x)Se _{2x} alloy monolayers aimed at tuning the bandgap of molybdenum disulfide. <i>Nanoscale</i> , 2015, 7, 13554-13560.	5.6	103

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37	Testing modified gravity models with recent cosmological observations. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2244-2258.	5.1	20
38	Dark energy and fate of the Universe. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1330-1334.	5.1	31