

# Chenyu Xu

## List of Publications by Year in descending order

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27  
papers

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citations

516710

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526287

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27  
docs citations

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times ranked

790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photothermal Coupling Factor Achieving CO <sub>2</sub> Reduction Based on Palladium-Nanoparticle-Loaded TiO <sub>2</sub> . ACS Catalysis, 2018, 8, 6582-6593.	11.2	124
2	Hollow NiSe Nanocrystals Heterogenized with Carbon Nanotubes for Efficient Electrocatalytic Methanol Upgrading to Boost Hydrogen Co-Production. Advanced Functional Materials, 2021, 31, 2008812.	14.9	84
3	CO <sub>2</sub> -emission-free electrocatalytic CH <sub>3</sub> OH selective upgrading with high productivity at large current densities for energy saved hydrogen co-generation. Nano Energy, 2021, 80, 105530.	16.0	76
4	Enhanced mechanism of the photo-thermochemical cycle based on effective Fe-doping TiO <sub>2</sub> films and DFT calculations. Applied Catalysis B: Environmental, 2017, 204, 324-334.	20.2	75
5	Photothermal Chemistry Based on Solar Energy: From Synergistic Effects to Practical Applications. Advanced Science, 2022, 9, e2103926.	11.2	61
6	Interface-Induced Electrocatalytic Enhancement of CO <sub>2</sub> to Formate Conversion on Heterostructured Bismuth-Based Catalysts. Small, 2022, 18, e2105682.	10.0	53
7	Interfacial engineering of Cu <sub>2</sub> Se/Co <sub>3</sub> Se <sub>4</sub> multivalent hetero-nanocrystals for energy-efficient electrocatalytic co-generation of value-added chemicals and hydrogen. Applied Catalysis B: Environmental, 2021, 285, 119800.	20.2	51
8	A novel photo-thermochemical cycle for the dissociation of CO <sub>2</sub> using solar energy. Applied Energy, 2015, 156, 223-229.	10.1	49
9	Guiding effective nanostructure design for photo-thermochemical CO <sub>2</sub> conversion: From DFT calculations to experimental verifications. Nano Energy, 2017, 41, 308-319.	16.0	41
10	Carbon Dioxide Valorization via Formate Electrosynthesis in a Wide Potential Window. Advanced Functional Materials, 2022, 32, .	14.9	37
11	A novel photo-thermochemical cycle of water-splitting for hydrogen production based on TiO <sub>2</sub> <sup>x</sup> /TiO <sub>2</sub> . International Journal of Hydrogen Energy, 2016, 41, 2215-2221.	7.1	33
12	Visible light-responding perovskite oxide catalysts for photo-thermochemical CO <sub>2</sub> reduction. Catalysis Communications, 2020, 138, 105955.	3.3	21
13	Photothermal Catalysis for Selective CO <sub>2</sub> Reduction on the Modified Anatase TiO <sub>2</sub> (101) Surface. ACS Applied Energy Materials, 2021, 4, 7702-7709.	5.1	21
14	Anode-cathode interchangeable strategy for in situ reviving electrocatalysts' critical active sites for highly stable methanol upgrading and hydrogen evolution reactions. Applied Catalysis B: Environmental, 2022, 305, 121082.	20.2	21
15	Regulating the Electron Localization of Metallic Bismuth for Boosting CO <sub>2</sub> Electroreduction. Nano-Micro Letters, 2022, 14, 38.	27.0	21
16	Pathway Alteration of Water Splitting via Oxygen Vacancy Formation on Anatase Titanium Dioxide in Photothermal Catalysis. Journal of Physical Chemistry C, 2020, 124, 26214-26221.	3.1	19
17	Standalone Solar Carbon-Based Fuel Production Based on Semiconductors. Cell Reports Physical Science, 2020, 1, 100101.	5.6	18
18	Novel folic acid complex derived nitrogen and nickel co-doped carbon nanotubes with embedded Ni nanoparticles as efficient electrocatalysts for CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2020, 8, 5105-5114.	10.3	18

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19	Co- and N-doped carbon nanotubes with hierarchical pores derived from metal-organic nanotubes for oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2021, 53, 49-55.	12.9	18
20	Directionally maximizing CO selectivity to near-unity over cupric oxide with indium species for electrochemical CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2022, 427, 131654.	12.7	18
21	Accelerating photoelectric CO <sub>2</sub> conversion with a photothermal wavelength-dependent plasmonic local field. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120533.	20.2	17
22	Photothermal Catalytic Water Splitting at Diverse Two-Phase Interfaces Based on Cu-TiO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , 2022, 5, 4564-4576.	5.1	12
23	Oxygen-vacancy-anchoring Ni O loading towards efficient hydrogen evolution via photo-thermal coupling reaction. <i>Journal of Energy Chemistry</i> , 2021, 61, 77-87.	12.9	8
24	Enhanced Solar Conversion of CO <sub>2</sub> to CO Using Mn-doped TiO <sub>2</sub> Based on Photo-thermochemical Cycle. <i>ChemistrySelect</i> , 2019, 4, 236-244.	1.5	7
25	Photo-thermochemical Cycle for CO <sub>2</sub> Reduction based on Effective Ni ion Substitute-doped TiO <sub>2</sub> . <i>Acta Chimica Sinica</i> , 2017, 75, 699.	1.4	7
26	Theoretical Study of Oxygen Vacancy on Indium Oxide for Promoted Photothermal Catalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19294-19300.	3.1	4
27	United Conversion Process Coupling CO <sub>2</sub> Mineralization with Thermochemical Hydrogen Production. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12091-12100.	10.0	3