

# Qiang Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

912  
citations

567281

15  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1204  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Highly aligned Cu <sub>2</sub> O/CuO/TiO <sub>2</sub> core/shell nanowire arrays as photocathodes for water photoelectrolysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2418-2425.  | 10.3 | 195       |
| 2  | Recent progress in photocathodes for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15824-15837.  | 10.3 | 160       |
| 3  | Lead-Free Perovskite Cs <sub>2</sub> AgBiX <sub>6</sub> Nanocrystals with a Band Gap Funnel Structure for Photocatalytic CO <sub>2</sub> Reduction under Visible Light. <i>Chemistry of Materials</i> , 2021, 33, 4971-4976.                              | 6.7  | 60        |
| 4  | High visible-light photocatalytic performance of stable lead-free Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskite nanocrystals. <i>Journal of Catalysis</i> , 2021, 397, 27-35.   | 6.2  | 47        |
| 5  | Carbon dioxide dissociation in non-thermal radiofrequency and microwave plasma. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 294001.   | 2.8  | 36        |
| 6  | Boudouard reaction driven by thermal plasma for efficient CO <sub>2</sub> conversion and energy storage. <i>Journal of Energy Chemistry</i> , 2020, 45, 128-134.  | 12.9 | 34        |
| 7  | Morphology Regulation and Photocatalytic CO <sub>2</sub> Reduction of Lead-Free Perovskite Cs <sub>3</sub> Sb <sub>2</sub> I <sub>9</sub> Microcrystals. <i>ACS Applied Energy Materials</i> , 2021, 4, 5913-5917.  | 5.1  | 31        |
| 8  | Synthesis and CO <sub>2</sub> Photoreduction of Lead-Free Cesium Bismuth Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18328-18333.   | 3.1  | 29        |
| 9  | Synthesis of Stable Lead-Free Cs <sub>3</sub> Sb <sub>2</sub> (Br <sub>x</sub> I <sub>1-x</sub> ) <sub>9</sub> (0 ≤ x ≤ 1) Perovskite Nanoplatelets and Their Application in CO <sub>2</sub> Photocatalytic Reduction. <i>Small</i> , 2022, 18, e2106001. | 10.0 | 28        |
| 10 | Impact of Hydroiodic Acid on Resistive Switching Performance of Lead-Free Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskite Memory. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1973-1978.   | 4.6  | 27        |
| 11 | Tuning of Conversion and Optical Emission by Electron Temperature in Inductively Coupled CO <sub>2</sub> Plasma. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19338-19347.   | 3.1  | 26        |
| 12 | Ultrastable Lead-Free CsAgCl <sub>2</sub> Perovskite Microcrystals for Photocatalytic CO <sub>2</sub> Reduction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5110-5114.  | 4.6  | 26        |
| 13 | Hydrogen Evolution from Pt Nanoparticles Covered p-Type CdS:Cu Photocathode in Scavenger-Free Electrolyte. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2306-2311.   | 3.1  | 22        |
| 14 | Amino-mediated anchoring of FAPbBr <sub>3</sub> perovskite quantum dots on silica spheres for efficient visible light photocatalytic NO removal. <i>Chemical Engineering Journal</i> , 2021, 406, 126740.   | 12.7 | 21        |
| 15 | Highly crystalline lead-free Cs <sub>3</sub> Sb <sub>2</sub> Br <sub>9</sub> perovskite microcrystals enable efficient and selective photocatalytic oxidation of benzyl alcohol. <i>Journal of Catalysis</i> , 2022, 408, 36-42.                          | 6.2  | 18        |
| 16 | Dry Reforming of Methane under Mild Conditions Using Radio Frequency Plasma. <i>Energy Technology</i> , 2020, 8, 1900886.   | 3.8  | 17        |
| 17 | <i>In Situ</i> Study of the Conversion Reaction of CO <sub>2</sub> and CO <sub>2</sub> -H <sub>2</sub> Mixtures in Radio Frequency Discharge Plasma. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019, 35, 292-298.                           | 4.9  | 17        |
| 18 | Visible light driven photocatalytic reduction of CO <sub>2</sub> on Au-Pt/Cu <sub>2</sub> O/ReS <sub>2</sub> with high efficiency and controllable selectivity. <i>Chemical Engineering Journal</i> , 2022, 437, 135299.                                  | 12.7 | 17        |

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|----|---|------|-----------|
| 19 | Enhancing CO <sub>2</sub> plasma conversion using metal grid catalysts. Journal of Applied Physics, 2021, 129, .  | 2.5  | 14        |
| 20 | Lead-free perovskite Cs <sub>2</sub> XCl <sub>6</sub> (X= Hf, Zr, Te) microcrystals for photocatalytic CO <sub>2</sub> reduction. Materials Today Energy, 2022, 28, 101067.   | 4.7  | 14        |
| 21 | Phases transformation of nickel lateritic ore during dehydration. Journal of Mining and Metallurgy, Section B: Metallurgy, 2011, 47, 45-51.   | 0.8  | 13        |
| 22 | Carbon Dioxide Conversion Synergistically Activated by Dielectric Barrier Discharge Plasma and the CsPbBr <sub>3</sub> @TiO <sub>2</sub> Photocatalyst. Journal of Physical Chemistry Letters, 2022, 13, 2418-2427. | 4.6  | 13        |
| 23 | CO <sub>2</sub> conversion by thermal plasma with carbon as reducing agent: high CO yield and energy efficiency. Plasma Science and Technology, 2019, 21, 012001.   | 1.5  | 11        |
| 24 | Metabolites from the co-culture of nigranoic acid and <i>Umbelopsis dimorpha</i> SWUKD3.1410, an endophytic fungus from <i>Kadsura angustifolia</i> . Natural Product Research, 2017, 31, 1414-1421.                | 1.8  | 10        |
| 25 | Study of CO diffusion on stepped Pt(111) surface by scanning tunneling microscopy. Surface Science, 2010, 604, 322-326.   | 1.9  | 8         |
| 26 | Conversion of CO <sub>2</sub> by non-thermal inductively-coupled plasma catalysis. Chinese Journal of Chemical Physics, 2020, 33, 243-251.  | 1.3  | 6         |
| 27 | Enhancing the brightness of CsPbBr <sub>3</sub> quantum dot electroluminescence light-emitting diodes by manipulation of PEDOT:PSS films. Journal of Materials Chemistry C, 2021, 9, 15910-15917.                   | 5.5  | 6         |
| 28 | Photo- and Electro-catalytic CO <sub>2</sub> Reduction Based on Stable Lead-Free Perovskite Cs <sub>2</sub> PdBr <sub>6</sub> . Energy and Environmental Materials, 2023, 6, .                                      | 12.8 | 4         |
| 29 | Collision-induced desorption of CO from Ru(0001) by hyperthermal argon and nitrogen. Surface Science, 2016, 650, 230-236.   | 1.9  | 0         |
| 30 | Plasma Surface Interaction. , 2018, , 573-584.  |      | 0         |