

# Zemin Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1577835/publications.pdf>

Version: 2024-02-01

14  
papers

448  
citations

1040056

9  
h-index

1199594

12  
g-index

14  
all docs

14  
docs citations

14  
times ranked

677  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Toward efficient photoelectrochemical water-splitting by using screw-like SnO <sub>2</sub> nanostructures as photoanode after being decorated with CdS quantum dots. <i>Nano Energy</i> , 2016, 19, 318-327.           | 16.0 | 139       |
| 2  | Enhanced charge separation and transfer through Fe <sub>2</sub> O <sub>3</sub> /ITO nanowire arrays wrapped with reduced graphene oxide for water-splitting. <i>Nano Energy</i> , 2016, 30, 892-899.                   | 16.0 | 71        |
| 3  | Beneficial CuO Phase Segregation in the Ternary p-Type Oxide Photocathode CuBi <sub>2</sub> O <sub>4</sub> . <i>ACS Applied Energy Materials</i> , 2019, 2, 4111-4117.   | 5.1  | 48        |
| 4  | CuBi <sub>2</sub> O <sub>4</sub> : Electronic Structure, Optical Properties, and Photoelectrochemical Performance Limitations of the Photocathode. <i>Chemistry of Materials</i> , 2021, 33, 934-945.                  | 6.7  | 45        |
| 5  | Fermi Level Engineering of Passivation and Electron Transport Materials for p-Type CuBi <sub>2</sub> O <sub>4</sub> Employing a High-Throughput Methodology. <i>Advanced Functional Materials</i> , 2020, 30, 2000948. | 14.9 | 28        |
| 6  | CuBi <sub>2</sub> O <sub>4</sub> photocathode with integrated electric field for enhanced H <sub>2</sub> O <sub>2</sub> production. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120980.                     | 20.2 | 27        |
| 7  | Carbon quantum dots based charge bridge between photoanode and electrocatalysts for efficiency water oxidation. <i>Electrochimica Acta</i> , 2018, 273, 208-215.   | 5.2  | 25        |
| 8  | Significantly improved charge collection and interface injection in 3D BiVO <sub>4</sub> based multilayered core-shell nanowire photocatalysts. <i>Nanoscale</i> , 2017, 9, 14015-14022.                               | 5.6  | 23        |
| 9  | BiFeO <sub>3</sub> photocathodes for efficient H <sub>2</sub> O <sub>2</sub> production <i>via</i> charge carrier dynamics engineering. <i>Materials Horizons</i> , 2022, 9, 1999-2006.                                | 12.2 | 13        |
| 10 | Understanding the Role of Oxygen and Hydrogen Defects in Modulating the Optoelectronic Properties of P-Type Metal Oxide Semiconductors. <i>Chemistry of Materials</i> , 2021, 33, 7829-7838.                           | 6.7  | 12        |
| 11 | Enhanced charge collection and surface activity of a CuBi <sub>2</sub> O <sub>4</sub> photocathode <i>via</i> crystal facet engineering. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9427-9434.                | 10.3 | 9         |
| 12 | Computation-assisted performance optimization for photoelectrochemical photoelectrodes. <i>Applied Physics Letters</i> , 2022, 120, .  | 3.3  | 4         |
| 13 | Self-Powered Photodetector Based on p-Type CuBi <sub>2</sub> O <sub>4</sub> with Fermi Level Engineering. <i>Advanced Materials Interfaces</i> , 0, , 2101443.   | 3.7  | 3         |
| 14 | Enhanced Photocarrier Collection in Bismuth Vanadate Photoanode through Modulating the Inner Potential Distribution. <i>Advanced Optical Materials</i> , 0, , 2200046.   | 7.3  | 1         |