

# Huidong Shen

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,675  
citations

331538

21  
h-index

552653

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1760  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Electrochemical ammonia synthesis: Mechanistic understanding and catalyst design. <i>CheM</i> , 2021, 7, 1708-1754.   | 5.8  | 253       |
| 2  | Synergistic effect of surface oxygen vacancies and interfacial charge transfer on Fe(III)/Bi <sub>2</sub> MoO <sub>6</sub> for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 247, 150-162.  | 10.8 | 185       |
| 3  | Photocatalytic Reduction of CO <sub>2</sub> by Metal-Free Based Materials: Recent Advances and Future Perspective. <i>Solar Rrl</i> , 2020, 4, 1900546.   | 3.1  | 177       |
| 4  | Alkali-assisted synthesis of direct Z-scheme based Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> MoO <sub>6</sub> photocatalyst for highly efficient photocatalytic degradation of phenol and hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2019, 375, 399-409.                    | 3.1  | 108       |
| 5  | Design and construction of the sandwich-like Z-scheme multicomponent CdS/Ag/Bi <sub>2</sub> MoO <sub>6</sub> heterostructure with enhanced photocatalytic performance in RhB photodegradation. <i>New Journal of Chemistry</i> , 2016, 40, 8614-8624.   | 1.4  | 100       |
| 6  | Ag/Bi <sub>2</sub> MoO <sub>6-x</sub> with enhanced visible-light-responsive photocatalytic activities via the synergistic effect of surface oxygen vacancies and surface plasmon. <i>Applied Surface Science</i> , 2018, 436, 536-547.   | 3.1  | 84        |
| 7  | In situ fabrication of Bi <sub>2</sub> MoO <sub>6</sub> /Bi <sub>2</sub> MoO <sub>6-x</sub> homojunction photocatalyst for simultaneous photocatalytic phenol degradation and Cr(VI) reduction. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 741-751.                             | 5.0  | 80        |
| 8  | Photocatalytic nitrogen reduction to ammonia: Insights into the role of defect engineering in photocatalysts. <i>Nano Research</i> , 2022, 15, 2773-2809.   | 5.8  | 69        |
| 9  | Porous BiOBr/Bi <sub>2</sub> MoO <sub>6</sub> Heterostructures for Highly Selective Adsorption of Methylene Blue. <i>ACS Omega</i> , 2016, 1, 566-577.  | 1.6  | 59        |
| 10 | Photocatalytic performance and mechanism insights of a S-scheme g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> heterostructure in phenol degradation and hydrogen evolution reactions under visible light. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26278-26288. | 1.3  | 55        |
| 11 | Photocatalytic activity of Bi <sub>2</sub> WO <sub>6</sub> /Bi <sub>2</sub> S <sub>3</sub> heterojunctions: the facilitation of exposed facets of Bi <sub>2</sub> WO <sub>6</sub> substrate. <i>Applied Surface Science</i> , 2017, 393, 496-503.   | 3.1  | 53        |
| 12 | La and F co-doped Bi <sub>2</sub> MoO <sub>6</sub> architectures with enhanced photocatalytic performance via synergistic effect. <i>RSC Advances</i> , 2016, 6, 71052-71060.   | 1.7  | 51        |
| 13 | Magnetically recyclable Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> /Bi <sub>2</sub> WO <sub>6</sub> /Bi <sub>2</sub> S <sub>3</sub> with visible-light-driven photocatalytic oxidative desulfurization. <i>Materials Research Bulletin</i> , 2019, 118, 110520.                             | 2.7  | 50        |
| 14 | Ultrafine Au nanoparticles anchored on Bi <sub>2</sub> MoO <sub>6</sub> with abundant surface oxygen vacancies for efficient oxygen molecule activation. <i>Catalysis Science and Technology</i> , 2019, 9, 3193-3202.  | 2.1  | 46        |
| 15 | Magnetically recyclable Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> /Bi <sub>2</sub> WO <sub>6</sub> ·xH <sub>2</sub> O photocatalyst with well-designed core-shell nanostructure for the reduction of Cr(VI). <i>Chemical Engineering Journal</i> , 2019, 370, 1522-1533.                   | 6.6  | 45        |
| 16 | Efficient Degradation of Phenol and 4-Nitrophenol by Surface Oxygen Vacancies and Plasmonic Silver Co-Modified Bi <sub>2</sub> MoO <sub>6</sub> Photocatalysts. <i>Chemistry - A European Journal</i> , 2018, 24, 18463-18478.  | 1.7  | 40        |
| 17 | Metal-Tuned W <sub>18</sub> O <sub>49</sub> for Efficient Electrocatalytic N <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2957-2963.   | 3.2  | 39        |
| 18 | Surface-engineered oxidized two-dimensional Sb for efficient visible light-driven N <sub>2</sub> fixation. <i>Nano Energy</i> , 2020, 78, 105368.   | 8.2  | 37        |

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|----|--|-----|-----------|
| 19 | Synthesis of nano-porous Bi <sub>2</sub> WO <sub>6</sub> hierarchical microcrystal with selective adsorption for cationic dyes. <i>Materials Research Bulletin</i> , 2016, 83, 387-395.  | 2.7 | 35        |
| 20 | Achieving Highly Selective Electrocatalytic CO <sub>2</sub> Reduction by Tuning CuO-Sb <sub>2</sub> O <sub>3</sub> Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4948-4954.  | 3.2 | 33        |
| 21 | Single yttrium sites on carbon-coated TiO <sub>2</sub> for efficient electrocatalytic N <sub>2</sub> reduction. <i>Chemical Communications</i> , 2020, 56, 10910-10913.  | 2.2 | 31        |
| 22 | AgBr nanoparticles decorated BiPO <sub>4</sub> microrod: a novel p-n heterojunction with enhanced photocatalytic activities. <i>RSC Advances</i> , 2015, 5, 72830-72840.   | 1.7 | 21        |
| 23 | Preparation of polymeric aluminum ferric chloride (PAFC) coagulant from fly ash for the treatment of coal-washing wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 18260-18274.   | 1.0 | 14        |
| 24 | A facile approach for the synthesis of sea urchin-like Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> @Ag nanocomposites as highly efficient and recyclable photocatalysts. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10616-10621. | 1.1 | 4         |
| 25 | Synthesis of Diatomite/g-C <sub>3</sub> N <sub>4</sub> ; Composite with Enhanced Visible-light-responsive Photocatalytic Activity. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2016, 31, 881.  | 0.6 | 4         |
| 26 | A Miracle Metal@Zeolite for Selective Conversion of Syngas to Ethanol. <i>Chem</i> , 2020, 6, 546-548.   | 5.8 | 2         |
| 27 | Frontispiece: Efficient Degradation of Phenol and 4-Nitrophenol by Surface Oxygen Vacancies and Plasmonic Silver Co-Modified Bi <sub>2</sub> MoO <sub>6</sub> Photocatalysts. <i>Chemistry - A European Journal</i> , 2018, 24, .                                    | 1.7 | 0         |