

# Bo Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,552  
citations

394421

19  
h-index

526287

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nature-based catalyst for visible-light-driven photocatalytic CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , 2018, 11, 2382-2389.	30.8	198
2	Visible-light-driven BiOBr nanosheets for highly facet-dependent photocatalytic inactivation of <i>Escherichia coli</i> . <i>Journal of Materials Chemistry A</i> , 2015, 3, 15148-15155.	10.3	165
3	Phosphorylation of g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2016, 304, 376-383.	12.7	157
4	Enhanced Biological Hydrogen Production from <i>Escherichia coli</i> with Surface Precipitated Cadmium Sulfide Nanoparticles. <i>Advanced Energy Materials</i> , 2017, 7, 1700611.	19.5	133
5	Alkali-Induced <i>In Situ</i> Fabrication of Bi <sub>2</sub> O <sub>4</sub> -Decorated BiOBr Nanosheets with Excellent Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7715-7727.	3.1	110
6	Sterilization of <i>Escherichia coli</i> by Photothermal Synergy of WO <sub>3</sub> /C Nanosheet under Infrared Light Irradiation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3691-3701.	10.0	82
7	AgInS <sub>2</sub> /In <sub>2</sub> S <sub>3</sub> heterostructure sensitization of <i>Escherichia coli</i> for sustainable hydrogen production. <i>Nano Energy</i> , 2018, 46, 234-240.	16.0	76
8	Enhanced CO <sub>2</sub> reduction and valuable C <sub>2+</sub> chemical production by a CdS-photosynthetic hybrid system. <i>Nanoscale</i> , 2019, 11, 9296-9301.	5.6	71
9	Photocatalytic Bacterial Inactivation by a Rape Pollen-MoS <sub>2</sub> Biohybrid Catalyst: Synergetic Effects and Inactivation Mechanisms. <i>Environmental Science &amp; Technology</i> , 2020, 54, 537-549.	10.0	69
10	Defect-Type-Dependent Near-Infrared-Driven Photocatalytic Bacterial Inactivation by Defective Bi <sub>2</sub> S <sub>3</sub> nanorods. <i>ChemSusChem</i> , 2019, 12, 890-897.	6.8	68
11	Biohybrid photoheterotrophic metabolism for significant enhancement of biological nitrogen fixation in pure microbial cultures. <i>Energy and Environmental Science</i> , 2019, 12, 2185-2191.	30.8	61
12	Interaction between bacterial cell membranes and nano-TiO <sub>2</sub> revealed by two-dimensional FTIR correlation spectroscopy using bacterial ghost as a model cell envelope. <i>Water Research</i> , 2017, 118, 104-113.	11.3	48
13	Shaped FeOOH with Enhanced Charge Separation for Visible-Light-Driven Photocatalytic Overall Water Splitting. <i>ChemSusChem</i> , 2018, 11, 1365-1373.	6.8	45
14	An association network analysis among microeukaryotes and bacterioplankton reveals algal bloom dynamics. <i>Journal of Phycology</i> , 2015, 51, 120-132.	2.3	44
15	Accelerating strain engineering in biofuel research via build and test automation of synthetic biology. <i>Current Opinion in Biotechnology</i> , 2021, 67, 88-98.	6.6	35
16	Interfacing Iodine-Doped Hydrothermally Carbonized Carbon with <i>Escherichia coli</i> through an Ion-Mode for Enhanced Light-Driven Hydrogen Production. <i>Advanced Energy Materials</i> , 2021, 11, 2100291.	19.5	34
17	Treated rape pollen: a metal-free visible-light-driven photocatalyst from nature for efficient water disinfection. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9335-9344.	10.3	30
18	Panoramic insights into semi-artificial photosynthesis: origin, development, and future perspective. <i>Energy and Environmental Science</i> , 2022, 15, 529-549.	30.8	30

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19	Noble-metal loading reverses temperature dependent photocatalytic hydrogen generation in methanolâ€“water solutions. <i>Chemical Communications</i> , 2016, 52, 11657-11660.	4.1	25
20	Removal of harmful alga, <i>Chattonella marina</i> , by recyclable natural magnetic sphalerite. <i>Journal of Hazardous Materials</i> , 2017, 324, 498-506.	12.4	18
21	Growth and Toxin Production of <i>Gambierdiscus</i> spp. Can Be Regulated by Quorum-Sensing Bacteria. <i>Toxins</i> , 2018, 10, 257.	3.4	14
22	Photobiocatalytic Solar Fuel and Solar Chemical Conversion: Sufficient Activity and Better Selectivity. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 989-1000.	7.6	12
23	Cd1-xZnxS biomineralized by engineered bacterium for efficient photocatalytic hydrogen production. <i>Materials Today Energy</i> , 2021, 22, 100869.	4.7	7
24	Effective photocatalytic inactivation of the plant-pathogen <i>Rhizobium radiobacter</i> by carbon-based material: Mechanism and agriculture application. <i>Chemical Engineering Journal</i> , 2021, 407, 127047.	12.7	6
25	The Microbial Mechanisms of a Novel Photosensitive Material (Treated Rape Pollen) in Anti-Biofilm Process under Marine Environment. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3837.	4.1	6
26	Insight into the tannic acid-based modular-assembly strategy based on inorganicâ€“biological hybrid systems: a material suitability, loading effect, and biocompatibility study. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3867-3876.	5.9	4
27	Bioremediation of Crude Glycerol by a Sustainable Organicâ€“Microbe Hybrid System. <i>Frontiers in Microbiology</i> , 2021, 12, 654033.	3.5	4