

# Lichao Jia

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,283  
citations

279798

23  
h-index

434195

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Embedding laser generated nanocrystals in BiVO <sub>4</sub> photoanode for efficient photoelectrochemical water splitting. <i>Nature Communications</i> , 2019, 10, 2609.	12.8	140
2	Size-tailored ZnO Submicrometer Spheres: Bottom-up Construction, Size-related Optical Extinction, and Selective Aniline Trapping. <i>Advanced Materials</i> , 2011, 23, 1865-1870.	21.0	119
3	Mo doped BiVO <sub>4</sub> gas sensor with high sensitivity and selectivity towards H <sub>2</sub> S. <i>Chemical Engineering Journal</i> , 2020, 395, 125144.	12.7	90
4	Micro/Nanostructured Ordered Porous Films and Their Structurally Induced Control of the Gas Sensing Performances. <i>Advanced Functional Materials</i> , 2010, 20, 3765-3773.	14.9	83
5	Hetero-apertured Micro/Nanostructured Ordered Porous Array: Layer-by-Layered Construction and Structure-Induced Sensing Parameter Controllability. <i>ACS Nano</i> , 2009, 3, 2697-2705.	14.6	65
6	Highly ordered macro-mesoporous carbon nitride film for selective detection of acidic/basic molecules. <i>Chemical Communications</i> , 2014, 50, 5976-5979.	4.1	61
7	Size-related native defect engineering in high intensity ultrasonication of nanoparticles for photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2013, 6, 799.	30.8	58
8	Boosting hematite photoelectrochemical water splitting by decoration of TiO <sub>2</sub> at the grain boundaries. <i>Chemical Engineering Journal</i> , 2019, 368, 959-967.	12.7	54
9	Porous CuBi <sub>2</sub> O <sub>4</sub> photocathodes with rationally engineered morphology and composition towards high-efficiency photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21997-22004.	10.3	53
10	Ordered porous BiVO <sub>4</sub> based gas sensors with high selectivity and fast-response towards H <sub>2</sub> S. <i>Chemical Engineering Journal</i> , 2019, 375, 121924.	12.7	50
11	±-Fe <sub>2</sub> O <sub>3</sub> films for photoelectrochemical water oxidation – insights of key performance parameters. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20196-20202.	10.3	45
12	Facile synthesis of Ti <sub>4</sub> O <sub>7</sub> on hollow carbon spheres with enhanced polysulfide binding for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10494-10504.	10.3	43
13	Hierarchical porous LaFeO <sub>3</sub> nanostructure for efficient trace detection of formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128022.	7.8	38
14	Polar-Field-Induced Double-Layer Nanostructured ZnO and Its Strong Violet Photoluminescence. <i>Crystal Growth and Design</i> , 2008, 8, 4367-4371.	3.0	36
15	Gradient Ti-doping in hematite photoanodes for enhanced photoelectrochemical performance. <i>Journal of Power Sources</i> , 2020, 449, 227473.	7.8	34
16	Electrospun Bi-doped SnO <sub>2</sub> porous nanosheets for highly sensitive nitric oxide detection. <i>Journal of Hazardous Materials</i> , 2021, 416, 126118.	12.4	34
17	Activating a Semiconductor-Liquid Junction via Laser-Derived Dual Interfacial Layers for Boosted Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2022, 34, e2201140.	21.0	34
18	Sputtering Deposition of Ultra-thin ±-Fe <sub>2</sub> O <sub>3</sub> Films for Solar Water Splitting. <i>Journal of Materials Science and Technology</i> , 2015, 31, 655-659.	10.7	32

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19	Photomediated assembly of single crystalline silver spherical particles with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 692-698.	10.3	29
20	Layer-by-layer strategy for the general synthesis of 2D ordered micro/nanostructured porous arrays: structural, morphological and compositional controllability. <i>Journal of Materials Chemistry</i> , 2009, 19, 7301.	6.7	28
21	C-doped LaFeO <sub>3</sub> Porous Nanostructures for Highly Selective Detection of Formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130550.	7.8	25
22	A facile photo-induced synthesis of COOH functionalized meso-macroporous carbon films and their excellent sensing capability for aromatic amines. <i>Chemical Communications</i> , 2012, 48, 9029.	4.1	24
23	Highly Ordered Nanoporous Carbon Films with Tunable Pore Diameters and their Excellent Sensing Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 697-703.	3.3	24
24	Laser-generated BiVO <sub>4</sub> colloidal particles with tailoring size and native oxygen defect for highly efficient gas sensing. <i>Journal of Hazardous Materials</i> , 2020, 392, 122471.	12.4	18
25	Boosting carrier dynamics of BiVO <sub>4</sub> photoanode via heterostructuring with ultrathin BiOI nanosheets for enhanced solar water splitting. <i>Journal of Materials Science and Technology</i> , 2021, 79, 21-28.	10.7	18
26	Fe <sub>2</sub> O <sub>3</sub> Porous Film with Single Grain Layer for Photoelectrochemical Water Oxidation: Reducing of Grain Boundary Effect. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500434.	3.7	16
27	Fabrication of Self-Standing Silver Nanoplate Arrays by Seed-Decorated Electrochemical Route and Their Structure-Induced Properties. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	2.7	13
28	Boosting the solar water oxidation performance of BiVO <sub>4</sub> photoanode via non-stoichiometric ratio driven surface reconstruction. <i>Journal of Power Sources</i> , 2022, 528, 231242.	7.8	10
29	Surface defect passivation of Ta <sub>3</sub> N <sub>5</sub> photoanode via pyridine grafting for enhanced photoelectrochemical performance. <i>Journal of Chemical Physics</i> , 2020, 153, 024705.	3.0	5
30	Reconstruction of Solar Fuel Ultrathin Films via Periodically Microbending for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 6748-6757.	5.1	3