

# Bao Yue Zhang

## List of Publications by Year in descending order

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43  
papers

2,278  
citations

201674  
27  
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265206  
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44  
all docs

44  
docs citations

44  
times ranked

2949  
citing authors

#	ARTICLE	IF	CITATIONS
1	A room temperature all-optical sensor based on two-dimensional SnS <sub>2</sub> for highly sensitive and reversible NO <sub>2</sub> sensing. <i>Journal of Hazardous Materials</i> , 2022, 426, 127813.	12.4	25
2	Highly accurate and label-free discrimination of single cancer cell using a plasmonic oxide-based nanoprobe. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113814.	10.1	14
3	Hetero-metallic metal-organic frameworks for room-temperature NO <sub>2</sub> sensing. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 304-312.	9.4	15
4	CoNi Layered Double Hydroxide Nanosheets Vertically Grown on Electrodeposited Dendritic Copper Substrates for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 2395-2404.	5.0	16
5	2D Palladium Sulphate for Visible-Light-Driven Optoelectronic Reversible Gas Sensing at Room Temperature. <i>Small Science</i> , 2022, 2, .	9.9	21
6	Plasmon-induced long-lived hot electrons in degenerately doped molybdenum oxides for visible-light-driven photochemical reactions. <i>Materials Today</i> , 2022, 55, 21-28.	14.2	18
7	Approximately 1 Ånm-sized artificial tunnels in wrinkled graphene-graphene oxide composite membranes for efficient dye/dye separation and dye desalination. <i>Chemical Engineering Journal</i> , 2022, 445, 136753.	12.7	21
8	Plasmonic metal oxides and their biological applications. <i>Materials Horizons</i> , 2022, 9, 2288-2324.	12.2	7
9	Hexagonal metal oxide monolayers derived from the metal-gas interface. <i>Nature Materials</i> , 2021, 20, 1073-1078.	27.5	88
10	A high-performance visible-light-driven all-optical switch enabled by ultra-thin gallium sulfide. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3115-3121.	5.5	12
11	High-mobility p-type semiconducting two-dimensional $\text{In}_2\text{TeO}_2$ . <i>Nature Electronics</i> , 2021, 4, 277-283.	26.0	75
12	Plasmonic metal-organic framework nanocomposites enabled by degenerately doped molybdenum oxides. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 305-314.	9.4	21
13	Free-standing ultra-thin Janus indium oxysulfide for ultrasensitive visible-light-driven optoelectronic chemical sensing. <i>Nano Today</i> , 2021, 37, 101096.	11.9	38
14	3D Visible-Light-Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. <i>Advanced Functional Materials</i> , 2021, 31, 2106397.	14.9	23
15	Recent advances of atomically thin 2D heterostructures in sensing applications. <i>Nano Today</i> , 2021, 40, 101287.	11.9	41
16	Angstrom-scale-porous plasmonic molybdenum oxide for ultrasensitive optical chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130740.	7.8	7
17	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020, 7, 827-834.	12.2	27
18	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. <i>Nature Communications</i> , 2020, 11, 6086.	12.8	67

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19	Atomically thin TiO <sub>2</sub> nanosheets synthesized using liquid metal chemistry. Chemical Communications, 2020, 56, 4914-4917.	4.1	30
20	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. Nature Communications, 2020, 11, 3449.	12.8	128
21	Synthesis of two-dimensional hematite and iron phosphide for hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 2789-2797.	10.3	60
22	Flexible two-dimensional indium tin oxide fabricated using a liquid metal printing technique. Nature Electronics, 2020, 3, 51-58.	26.0	161
23	Deciphering the Role of Quaternary N in O <sub>2</sub> Reduction over Controlled N-Doped Carbon Catalysts. Chemistry of Materials, 2020, 32, 1384-1392.	6.7	41
24	Exciton-Driven Chemical Sensors Based on Excitation-Dependent Photoluminescent Two-Dimensional SnS. ACS Applied Materials & Interfaces, 2019, 11, 42462-42468.	8.0	42
25	2D Plasmonic Tungsten Oxide Enabled Ultrasensitive Fiber Optics Gas Sensor. Advanced Optical Materials, 2019, 7, 1901383.	7.3	57
26	An Ultrasensitive Silicon Photonic Ion Sensor Enabled by 2D Plasmonic Molybdenum Oxide. Small, 2019, 15, e1805251.	10.0	31
27	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 257-268.	10.3	70
28	Immobilisation of microperoxidase-11 into layered MoO <sub>3</sub> for applications of enzymatic conversion. Applied Materials Today, 2019, 16, 185-192.	4.3	21
29	Investigation of the surface of Ga–Sn–Zn eutectic alloy by the characterisation of oxide nanofilms obtained by the touch-printing method. Nanomaterials, 2019, 9, 235.	4.1	11
30	Graphene-Based Multilayered Metamaterials with Phototunable Architecture for on-Chip Photonic Devices. ACS Photonics, 2019, 6, 1033-1040.	6.6	98
31	2D SnO/In <sub>2</sub> O <sub>3</sub> van der Waals Heterostructure Photodetector Based on Printed Oxide Skin of Liquid Metals. Advanced Materials Interfaces, 2019, 6, 1900007.	3.7	65
32	A Novel 2D Plasmonic MoO <sub>3</sub> Driven pH Sensor on Silicon Photonics Platform. , 2019, , .		0
33	Wafer-Sized Ultrathin Gallium and Indium Nitride Nanosheets through the Ammonolysis of Liquid Metal Derived Oxides. Journal of the American Chemical Society, 2019, 141, 104-108.	13.7	107
34	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. Advanced Functional Materials, 2018, 28, 1706006.	14.9	105
35	Exfoliation Behavior of van der Waals Strings: Case Study of Bi <sub>2</sub> S <sub>3</sub> . ACS Applied Materials & Interfaces, 2018, 10, 42603-42611.	8.0	30
36	Green Synthesis of Low-Dimensional Aluminum Oxide Hydroxide and Oxide Using Liquid Metal Reaction Media: Ultrahigh Flux Membranes. Advanced Functional Materials, 2018, 28, 1804057.	14.9	67

#	ARTICLE	IF	CITATIONS
37	Printing two-dimensional gallium phosphate out of liquid metal. Nature Communications, 2018, 9, 3618.	12.8	107
38	Bi <sub>2</sub> O <sub>3</sub> monolayers from elemental liquid bismuth. Nanoscale, 2018, 10, 15615-15623.	5.6	52
39	Two dimensional PbMoO <sub>4</sub> : A photocatalytic material derived from a naturally non-layered crystal. Nano Energy, 2018, 49, 237-246.	16.0	45
40	Surface Water Dependent Properties of Sulfur-Rich Molybdenum Sulfides: Electrolyteless Gas Phase Water Splitting. ACS Nano, 2017, 11, 6782-6794.	14.6	57
41	Highly active two dimensional $\text{In}_2\text{MoO}_7$ for the electrocatalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 24223-24231.	10.3	166
42	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. Advanced Functional Materials, 2017, 27, 1702295.	14.9	110
43	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO <sub>2</sub> . Nanoscale, 2017, 9, 19162-19175.	5.6	81