

Bao Yue Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,278
citations

201575

27
h-index

265120

42
g-index

44
all docs

44
docs citations

44
times ranked

2949
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly active two dimensional MoO_3 for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24223-24231.	5.2	166
2	Flexible two-dimensional indium tin oxide fabricated using a liquid metal printing technique. <i>Nature Electronics</i> , 2020, 3, 51-58.	13.1	161
3	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. <i>Nature Communications</i> , 2020, 11, 3449.	5.8	128
4	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. <i>Advanced Functional Materials</i> , 2017, 27, 1702295.	7.8	110
5	Printing two-dimensional gallium phosphate out of liquid metal. <i>Nature Communications</i> , 2018, 9, 3618.	5.8	107
6	Wafer-Sized Ultrathin Gallium and Indium Nitride Nanosheets through the Ammonolysis of Liquid Metal Derived Oxides. <i>Journal of the American Chemical Society</i> , 2019, 141, 104-108.	6.6	107
7	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. <i>Advanced Functional Materials</i> , 2018, 28, 1706006.	7.8	105
8	Graphene-Based Multilayered Metamaterials with Phototunable Architecture for on-Chip Photonic Devices. <i>ACS Photonics</i> , 2019, 6, 1033-1040.	3.2	98
9	Hexagonal metal oxide monolayers derived from the metal-gas interface. <i>Nature Materials</i> , 2021, 20, 1073-1078.	13.3	88
10	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO_2 . <i>Nanoscale</i> , 2017, 9, 19162-19175.	2.8	81
11	High-mobility p-type semiconducting two-dimensional TeO_2 . <i>Nature Electronics</i> , 2021, 4, 277-283.	13.1	75
12	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 257-268.	5.2	70
13	Green Synthesis of Low-Dimensional Aluminum Oxide Hydroxide and Oxide Using Liquid Metal Reaction Media: Ultrahigh Flux Membranes. <i>Advanced Functional Materials</i> , 2018, 28, 1804057.	7.8	67
14	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. <i>Nature Communications</i> , 2020, 11, 6086.	5.8	67
15	2D $\text{SnO}_2/\text{In}_2\text{O}_3$ van der Waals Heterostructure Photodetector Based on Printed Oxide Skin of Liquid Metals. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900007.	1.9	65
16	Synthesis of two-dimensional hematite and iron phosphide for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2789-2797.	5.2	60
17	Surface Water Dependent Properties of Sulfur-Rich Molybdenum Sulfides: Electrolyteless Gas Phase Water Splitting. <i>ACS Nano</i> , 2017, 11, 6782-6794.	7.3	57
18	2D Plasmonic Tungsten Oxide Enabled Ultrasensitive Fiber Optics Gas Sensor. <i>Advanced Optical Materials</i> , 2019, 7, 1901383.	3.6	57

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19	Bi ₂ O ₃ monolayers from elemental liquid bismuth. <i>Nanoscale</i> , 2018, 10, 15615-15623.	2.8	52
20	Two dimensional PbMoO ₄ : A photocatalytic material derived from a naturally non-layered crystal. <i>Nano Energy</i> , 2018, 49, 237-246.	8.2	45
21	Exciton-Driven Chemical Sensors Based on Excitation-Dependent Photoluminescent Two-Dimensional SnS. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42462-42468.	4.0	42
22	Deciphering the Role of Quaternary N in O ₂ Reduction over Controlled N-Doped Carbon Catalysts. <i>Chemistry of Materials</i> , 2020, 32, 1384-1392.	3.2	41
23	Recent advances of atomically thin 2D heterostructures in sensing applications. <i>Nano Today</i> , 2021, 40, 101287.	6.2	41
24	Free-standing ultra-thin Janus indium oxysulfide for ultrasensitive visible-light-driven optoelectronic chemical sensing. <i>Nano Today</i> , 2021, 37, 101096.	6.2	38
25	An Ultrasensitive Silicon Photonic Ion Sensor Enabled by 2D Plasmonic Molybdenum Oxide. <i>Small</i> , 2019, 15, e1805251.	5.2	31
26	Exfoliation Behavior of van der Waals Strings: Case Study of Bi ₂ S ₃ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42603-42611.	4.0	30
27	Atomically thin TiO ₂ nanosheets synthesized using liquid metal chemistry. <i>Chemical Communications</i> , 2020, 56, 4914-4917.	2.2	30
28	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020, 7, 827-834.	6.4	27
29	A room temperature all-optical sensor based on two-dimensional SnS ₂ for highly sensitive and reversible NO ₂ sensing. <i>Journal of Hazardous Materials</i> , 2022, 426, 127813.	6.5	25
30	3D Visible-Light-Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. <i>Advanced Functional Materials</i> , 2021, 31, 2106397.	7.8	23
31	Immobilisation of microperoxidase-11 into layered MoO ₃ for applications of enzymatic conversion. <i>Applied Materials Today</i> , 2019, 16, 185-192.	2.3	21
32	Plasmonic metal-organic framework nanocomposites enabled by degenerately doped molybdenum oxides. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 305-314.	5.0	21
33	2D Palladium Sulphate for Visible-Light-Driven Optoelectronic Reversible Gas Sensing at Room Temperature. <i>Small Science</i> , 2022, 2, .	5.8	21
34	Approximately 1Ånm-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.	6.6	21
35	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.	8.3	18
36	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.	2.4	16

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37	Hetero-metallic metal-organic frameworks for room-temperature NO ₂ sensing. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 304-312.	5.0	15
38	Highly accurate and label-free discrimination of single cancer cell using a plasmonic oxide-based nanoprobe. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113814.	5.3	14
39	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.	2.7	12
40	Investigation of the surface of Ga–Sn–Zn eutectic alloy by the characterisation of oxide nanofilms obtained by the touch-printing method. <i>Nanomaterials</i> , 2019, 9, 235.	1.9	11
41	Angstrom-scale-porous plasmonic molybdenum oxide for ultrasensitive optical chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130740.	4.0	7
42	Plasmonic metal oxides and their biological applications. <i>Materials Horizons</i> , 2022, 9, 2288-2324.	6.4	7
43	A Novel 2D Plasmonic MoO ₃ Driven pH Sensor on Silicon Photonics Platform. , 2019, , .		0