

Xue-Min Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,191
citations

331670

21
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology and Wettability Control of Silicon Cone Arrays Using Colloidal Lithography. <i>Langmuir</i> , 2009, 25, 7375-7382.	3.5	103
2	Elevated Ag nanohole arrays for high performance plasmonic sensors based on extraordinary optical transmission. <i>Journal of Materials Chemistry</i> , 2012, 22, 8903.	6.7	73
3	A facile PDMS coating approach to room-temperature gas sensors with high humidity resistance and long-term stability. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128810.	7.8	69
4	Fabrication of MOF Thin Films at Miscible Liquid-Liquid Interface by Spray Method. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25960-25966.	8.0	64
5	Avoiding coffee ring structure based on hydrophobic silicon pillar arrays during single-drop evaporation. <i>Soft Matter</i> , 2012, 8, 10448.	2.7	61
6	Construction of Zn/Ni Bimetallic Organic Framework Derived ZnO/NiO Heterostructure with Superior <i>N</i> -Propanol Sensing Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9206-9215.	8.0	59
7	Fabrication of Metal-Organic Framework and Infinite Coordination Polymer Nanosheets by the Spray Technique. <i>Langmuir</i> , 2017, 33, 1060-1065.	3.5	53
8	Thermal-induced surface plasmon band shift of gold nanoparticle monolayer: morphology and refractive index sensitivity. <i>Nanotechnology</i> , 2010, 21, 465702.	2.6	44
9	High-Performance Plasmonic Sensors Based on Two-Dimensional Ag Nanowell Crystals. <i>Advanced Optical Materials</i> , 2014, 2, 779-787.	7.3	40
10	Optical properties of SiO ₂ @M (M = Au, Pd, Pt) core-shell nanoparticles: material dependence and damping mechanisms. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2282-2290.	5.5	39
11	An ultra-high quantum yield Tb-MOF with phenolic hydroxyl as the recognition group for a highly selective and sensitive detection of Fe ³⁺ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 15840-15847.	5.5	36
12	Pd-Decorated PdO Hollow Shells: A H ₂ -Sensing System in Which Catalyst Nanoparticle and Semiconductor Support are Interconvertible. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42971-42981.	8.0	32
13	Self-healing superhydrophobic conductive coatings for self-cleaning and humidity-insensitive hydrogen sensors. <i>Chemical Engineering Journal</i> , 2021, 410, 128353.	12.7	31
14	Copper oxide hierarchical morphology derived from MOF precursors for enhancing ethanol vapor sensing performance. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9671-9677.	5.5	29
15	Characterization and optimization of the H ₂ sensing performance of Pd hollow shells. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 101-109.	7.8	27
16	Fabrication of 2D metal-organic framework nanosheet@fiber composites by spray technique. <i>Chemical Communications</i> , 2019, 55, 8293-8296.	4.1	26
17	Morphology-controlled two-dimensional elliptical hemisphere arrays fabricated by a colloidal crystal based micromolding method. <i>Journal of Materials Chemistry</i> , 2010, 20, 152-158.	6.7	25
18	Amorphous FeNi-bimetallic infinite coordination polymers as advanced electrocatalysts for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 12567-12570.	4.1	24

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19	Enhancing the Hydrogen-Sensing Performance of p-Type PdO by Modulating the Conduction Model. ACS Applied Materials & Interfaces, 2021, 13, 52754-52764.	8.0	24
20	MOF-derived CuCoNi trimetallic hybrids as efficient oxygen evolution reaction electrocatalysts. New Journal of Chemistry, 2020, 44, 2459-2464.	2.8	23
21	Photoinduced cleaning of water-soluble dyes on patterned superhydrophilic/superhydrophobic substrates. Nanoscale, 2010, 2, 277-281.	5.6	21
22	Panchromatic plasmonic color patterns: from embedded Ag nanohole arrays to elevated Ag nanohole arrays. Journal of Materials Chemistry C, 2013, 1, 933-940.	5.5	21
23	CoNi-based metal-organic framework nanoarrays supported on carbon cloth as bifunctional electrocatalysts for efficient water-splitting. New Journal of Chemistry, 2020, 44, 1694-1698.	2.8	21
24	Metallic Nanoshells with Sub-10 nm Thickness and Their Performance as Surface-Enhanced Spectroscopy Substrate. ACS Applied Materials & Interfaces, 2016, 8, 9889-9896.	8.0	20
25	Preparation of hierarchical trimetallic coordination polymer film as efficient electrocatalyst for oxygen evolution reaction. Chemical Communications, 2019, 55, 9343-9346.	4.1	19
26	Controllable Fabrication of PdO@PdAu Ternary Hollow Shells: Synergistic Acceleration of H ₂ -Sensing Speed via Morphology Regulation and Electronic Structure Modulation. Small, 2022, 18, e2106874.	10.0	17
27	Assembly of non-close-packed 3D colloidal crystals from 2D ones in a polymer matrix via in situ layer-by-layer photopolymerization. Journal of Materials Chemistry, 2008, 18, 3536.	6.7	16
28	Fabrication of 2D Metal-Organic Framework Nanosheets with Highly Colloidal Stability and High Yield through Coordination Modulation. ACS Applied Materials & Interfaces, 2021, 13, 39755-39762.	8.0	15
29	Modulate the Morphology and Spectroscopic Property of Gold Nanoparticle Arrays by Polymer-Assisted Thermal Treatment. Journal of Physical Chemistry C, 2015, 119, 11839-11845.	3.1	14
30	Fabrication of wide-detection-range H ₂ sensors with controllable saturation behavior using Au@Pd nanoparticle arrays. Chemical Communications, 2020, 56, 12636-12639.	4.1	12
31	Preparation of Superhydrophobic Metal-Organic Framework/Polymer Composites as Stable and Efficient Catalysts. ACS Applied Materials & Interfaces, 2021, 13, 32175-32183.	8.0	12
32	Ti ₃ C ₂ MXene-derived sodium titanate nanoribbons for conductometric hydrogen gas sensors. Sensors and Actuators B: Chemical, 2022, 361, 131693.	7.8	12
33	Sea urchin-like CuO particles prepared using Cu ₃ (PO ₄) ₂ flowers as precursor for high-performance ethanol sensing. Nanotechnology, 2020, 31, 165504.	2.6	11
34	Novel Zinc-Based Infinite Coordination Polymer for Highly Selective Ammonia Gas Sensing at Room Temperature. Bulletin of the Chemical Society of Japan, 2020, 93, 1070-1073.	3.2	11
35	Facile fabrication of homogeneous and gradient plasmonic arrays with tunable optical properties via thermally regulated surface charge density. Journal of Materials Chemistry C, 2017, 5, 3962-3972.	5.5	10
36	A dual-emissive europium-based metal-organic framework for selective and sensitive detection of Fe ³⁺ and Fe ²⁺ . Dalton Transactions, 2021, 50, 13823-13829.	3.3	10

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37	Optimally designed gold nanorattles with strong built-in hotspots and weak polarization dependence. <i>Nanotechnology</i> , 2017, 28, 495201.	2.6	8
38	Pd-decorated PdO nanoparticle nanonetworks: A low-cost eye-readable H ₂ indicator with reactivation ability. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132242.	7.8	8
39	Fabrication of Monodisperse Flower-Like Coordination Polymers (CP) Microparticles by Spray Technique. <i>Nanomaterials</i> , 2017, 7, 237.	4.1	7
40	Structural and Morphological Transformation of Two-Dimensional Metal-Organic Frameworks Accompanied by Controlled Preparation Using the Spray Method. <i>Langmuir</i> , 2020, 36, 7392-7399.	3.5	7
41	Preparation of Bimetallic Metal-Organic Framework Microflowers by Spray Method. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 175-177.	3.2	6
42	Solid-state structural transformation of Zn(II)-bpe coordination polymers triggered by dual stimuli. <i>Journal of Solid State Chemistry</i> , 2020, 292, 121635.	2.9	6
43	Dynamic Color Display with Viewing-Angle Tolerance Based on the Responsive Asymmetric Fabry-Perot Cavity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7200-7207.	8.0	6
44	Encapsulation of metal oxide nanoparticles inside metal-organic frameworks via surfactant-assisted nanoconfined space. <i>Nanotechnology</i> , 2020, 31, 255604.	2.6	5
45	Green and ultrafast preparation of layered CuO nanoparticles and its ultrahigh-performance ethanol sensing application. <i>Journal of Molecular Liquids</i> , 2021, 342, 117473.	4.9	4
46	Oriented self-assembly of metal-organic frameworks driven by photoinitiated monomer polymerization. <i>RSC Advances</i> , 2022, 12, 19406-19411.	3.6	4
47	The Fabrication of Rigid Crosslinker-Decorated Gold Nanoparticle Array Film for Catalyzing CO ₂ Cycloaddition. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 2004-2011.	3.2	3
48	Lab-on-fiber sensing system based on responsive Fabry-Perot optical resonance cavities prepared through in-situ construction strategy. <i>Nanotechnology</i> , 2021, 32, .	2.6	1
49	High-performance plasmonic lab-on-fiber sensing system constructed by universal polymer assisted transfer technique. <i>Nanotechnology</i> , 2022, 33, 095502.	2.6	1
50	UV-Responsive, wide color gamut, inkless dynamic photonic paper enabled by disulfide-containing polyurethane based Fabry-Perot resonant cavity. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	1