

Gang Meng

List of Publications by Year in descending order

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36
papers

1,046
citations

430874

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docs citations

36
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitatively Discriminating Alcohol Molecules by Thermally Modulating NiO-Based Sensor Arrays. <i>Advanced Materials Technologies</i> , 2022, 7, 2100762.	5.8	6
2	Visible light boosting hydrophobic ZnO/(Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ chemiresistor toward ambient trimethylamine. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131076.	7.8	8
3	Unveiling low-temperature thermal oxidation growth of W ₁₈ O ₄₉ nanowires with metastable β -W films. <i>Nanoscale</i> , 2022, 14, 5002-5009.	5.6	2
4	High-Performance Planar-Type Photodetector Based on Hot-Pressed CsPbBr ₃ Wafer. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3008-3015.	4.6	7
5	Temperature modulated p-n transition NO ₂ sensor in metal-organic framework-derived CuO. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131605.	7.8	17
6	Pt-Anchored CuCrO ₂ for Low-Temperature-Operating High-Performance H ₂ S Chemiresistors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24536-24545.	8.0	17
7	Sc-doped NiO nanoflowers sensor with rich oxygen vacancy defects for enhancing VOCs sensing performances. <i>Journal of Alloys and Compounds</i> , 2021, 851, 155760.	5.5	39
8	Aliovalent Sc and Li co-doping boosts the performance of p-type NiO sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128834.	7.8	21
9	Lead-Free CsCu ₂ I ₃ Perovskite Nanostructured Networks Gas Sensor for Selective Detection of Trace Nitrogen Dioxide at Room Temperature. <i>IEEE Sensors Journal</i> , 2021, 21, 14677-14684.	4.7	13
10	In Situ Assembly of Ordered Hierarchical CuO Microhemisphere Nanowire Arrays for High-Performance Bifunctional Sensing Applications. <i>Small Methods</i> , 2021, 5, e2100202.	8.6	12
11	An excellent impedance-type humidity sensor based on halide perovskite CsPbBr ₃ nanoparticles for human respiration monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129772.	7.8	76
12	Heterostructural (Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ /ZnO for novel high-performance H ₂ S sensor operating at low temperature. <i>Journal of Hazardous Materials</i> , 2021, 414, 125500.	12.4	23
13	Fabrications of Halide Perovskite Single-Crystal Slices and Their Applications in Solar Cells, Photodetectors, and LEDs. <i>Crystal Growth and Design</i> , 2021, 21, 5983-5997.	3.0	9
14	Humidity Sensing by Graphitic Carbon Nitride Nanosheet/TiO ₂ Nanoparticle/Ti ₃ C ₂ T _x Nanosheet Composites for Monitoring Respiration and Evaluating the Waxing of Fruits. <i>ACS Applied Nano Materials</i> , 2021, 4, 11159-11167.	5.0	19
15	Discriminating BTX Molecules by the Nonselective Metal Oxide Sensor-Based Smart Sensing System. <i>ACS Sensors</i> , 2021, 6, 4167-4175.	7.8	19
16	Delafossite AgAlO ₂ modified long-period grating for highly-sensitive ammonia sensor. <i>Optics Express</i> , 2021, 29, 42005.	3.4	5
17	Synthesis of Monodispersedly Sized ZnO Nanowires from Randomly Sized Seeds. <i>Nano Letters</i> , 2020, 20, 599-605.	9.1	40
18	Bacterial cellulose templated p-Co ₃ O ₄ /n-ZnO nanocomposite with excellent VOCs response performance. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 477-484.	1.3	4

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19	Generic Approach to Boost the Sensitivity of Metal Oxide Sensors by Decoupling the Surface Charge Exchange and Resistance Reading Process. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37295-37304.	8.0	19
20	Au nanoparticle modified single-crystalline p-type LaRhO ₃ /SrTiO ₃ heterostructure for high performing VOCs sensor. <i>Ceramics International</i> , 2020, 46, 22140-22145.	4.8	15
21	Ultrasensitive and selective CuAlO ₂ sensor toward H ₂ S based on surface sulfuration-desulfuration reaction. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128027.	7.8	32
22	Insight into the Humidity Dependent Pseudo-n-Type Response of p-CuScO ₂ toward Ammonia. <i>Inorganic Chemistry</i> , 2019, 58, 9974-9981.	4.0	8
23	Surface oxygen vacancy defect engineering of p-CuAlO ₂ via Ar&H ₂ plasma treatment for enhancing VOCs sensing performances. <i>Chemical Communications</i> , 2019, 55, 11691-11694.	4.1	28
24	Discrimination of VOCs molecules via extracting concealed features from a temperature-modulated p-type NiO sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 342-349.	7.8	60
25	Flash Surface Treatment of CH ₃ NH ₃ PbI ₃ Films Using 248nm KrF Excimer Laser Enhances the Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900020.	5.8	5
26	A novel ammonia gas sensors based on p-type delafossite AgAlO ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 777, 52-58.	5.5	42
27	Oxygen Vacancy Defects Boosted High Performance p-Type Delafossite CuCrO ₂ Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34727-34734.	8.0	112
28	Precision excimer laser annealed Ga-doped ZnO electron transport layers for perovskite solar cells. <i>RSC Advances</i> , 2018, 8, 17694-17701.	3.6	12
29	Nanoscale Thermal Management of Single SnO ₂ Nanowire: pico-Joule Energy Consumed Molecule Sensor. <i>ACS Sensors</i> , 2016, 1, 997-1002.	7.8	56
30	Rational Concept for Reducing Growth Temperature in Vapor-Liquid-Solid Process of Metal Oxide Nanowires. <i>Nano Letters</i> , 2016, 16, 7495-7502.	9.1	33
31	All-nanocellulose nonvolatile resistive memory. <i>NPG Asia Materials</i> , 2016, 8, e310-e310.	7.9	64
32	Tailoring Nucleation at Two Interfaces Enables Single Crystalline NiO Nanowires via Vapor-Liquid-Solid Route. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27892-27899.	8.0	6
33	Rational Concept for Designing Vapor-Liquid-Solid Growth of Single Crystalline Metal Oxide Nanowires. <i>Nano Letters</i> , 2015, 15, 6406-6412.	9.1	46
34	Crystal-Plane Dependence of Critical Concentration for Nucleation on Hydrothermal ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1197-1203.	3.1	67
35	Room temperature ozone sensing properties of p-type CuCrO ₂ nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 119-123.	7.8	73
36	Room temperature ozone sensing properties of p-type transparent oxide CuCrO ₂ . <i>Journal of Alloys and Compounds</i> , 2009, 484, 619-621.	5.5	31