

Gang Meng

List of Publications by Year in descending order

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36
papers

1,046
citations

430874

18
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414414

32
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36
docs citations

36
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen Vacancy Defects Boosted High Performance p-Type Delafossite CuCrO_2 Gas Sensors. ACS Applied Materials & Interfaces, 2018, 10, 34727-34734.	8.0	112
2	An excellent impedance-type humidity sensor based on halide perovskite CsPbBr_3 nanoparticles for human respiration monitoring. Sensors and Actuators B: Chemical, 2021, 337, 129772.	7.8	76
3	Room temperature ozone sensing properties of p-type CuCrO_2 nanocrystals. Sensors and Actuators B: Chemical, 2009, 143, 119-123.	7.8	73
4	Crystal-Plane Dependence of Critical Concentration for Nucleation on Hydrothermal ZnO Nanowires. Journal of Physical Chemistry C, 2013, 117, 1197-1203.	3.1	67
5	All-nanocellulose nonvolatile resistive memory. NPG Asia Materials, 2016, 8, e310-e310.	7.9	64
6	Discrimination of VOCs molecules via extracting concealed features from a temperature-modulated p-type NiO sensor. Sensors and Actuators B: Chemical, 2019, 293, 342-349.	7.8	60
7	Nanoscale Thermal Management of Single SnO_2 Nanowire: pico-Joule Energy Consumed Molecule Sensor. ACS Sensors, 2016, 1, 997-1002.	7.8	56
8	Rational Concept for Designing Vapor-Liquid-Solid Growth of Single Crystalline Metal Oxide Nanowires. Nano Letters, 2015, 15, 6406-6412.	9.1	46
9	A novel ammonia gas sensors based on p-type delafossite AgAlO_2 . Journal of Alloys and Compounds, 2019, 777, 52-58.	5.5	42
10	Synthesis of Monodispersedly Sized ZnO Nanowires from Randomly Sized Seeds. Nano Letters, 2020, 20, 599-605.	9.1	40
11	Sc-doped NiO nanoflowers sensor with rich oxygen vacancy defects for enhancing VOCs sensing performances. Journal of Alloys and Compounds, 2021, 851, 155760.	5.5	39
12	Rational Concept for Reducing Growth Temperature in Vapor-Liquid-Solid Process of Metal Oxide Nanowires. Nano Letters, 2016, 16, 7495-7502.	9.1	33
13	Ultrasensitive and selective CuAlO_2 sensor toward H_2S based on surface sulfuration-desulfuration reaction. Sensors and Actuators B: Chemical, 2020, 313, 128027.	7.8	32
14	Room temperature ozone sensing properties of p-type transparent oxide CuCrO_2 . Journal of Alloys and Compounds, 2009, 484, 619-621.	5.5	31
15	Surface oxygen vacancy defect engineering of p- CuAlO_2 via Ar/H_2 plasma treatment for enhancing VOCs sensing performances. Chemical Communications, 2019, 55, 11691-11694.	4.1	28
16	Heterostructural $(\text{Sr}_{0.6}\text{Bi}_{0.305})_2\text{Bi}_2\text{O}_7/\text{ZnO}$ for novel high-performance H_2S sensor operating at low temperature. Journal of Hazardous Materials, 2021, 414, 125500.	12.4	23
17	Aliovalent Sc and Li co-doping boosts the performance of p-type NiO sensor. Sensors and Actuators B: Chemical, 2021, 326, 128834.	7.8	21
18	Generic Approach to Boost the Sensitivity of Metal Oxide Sensors by Decoupling the Surface Charge Exchange and Resistance Reading Process. ACS Applied Materials & Interfaces, 2020, 12, 37295-37304.	8.0	19

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19	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. ACS Applied Nano Materials, 2021, 4, 11159-11167.	5.0	19
20	Discriminating BTX Molecules by the Nonselective Metal Oxide Sensor-Based Smart Sensing System. ACS Sensors, 2021, 6, 4167-4175.	7.8	19
21	Temperature modulated p-n transition NO ₂ sensor in metal-organic framework-derived CuO. Sensors and Actuators B: Chemical, 2022, 359, 131605.	7.8	17
22	Pt-Anchored CuCrO ₂ for Low-Temperature-Operating High-Performance H ₂ S Chemiresistors. ACS Applied Materials & Interfaces, 2022, 14, 24536-24545.	8.0	17
23	Au nanoparticle modified single-crystalline p-type LaRhO ₃ /SrTiO ₃ heterostructure for high performing VOCs sensor. Ceramics International, 2020, 46, 22140-22145.	4.8	15
24	Lead-Free CsCu ₂ I ₃ Perovskite Nanostructured Networks Gas Sensor for Selective Detection of Trace Nitrogen Dioxide at Room Temperature. IEEE Sensors Journal, 2021, 21, 14677-14684.	4.7	13
25	Precision excimer laser annealed Ga-doped ZnO electron transport layers for perovskite solar cells. RSC Advances, 2018, 8, 17694-17701.	3.6	12
26	In Situ Assembly of Ordered Hierarchical CuO Microhemisphere Nanowire Arrays for High-Performance Bifunctional Sensing Applications. Small Methods, 2021, 5, e2100202.	8.6	12
27	Fabrications of Halide Perovskite Single-Crystal Slices and Their Applications in Solar Cells, Photodetectors, and LEDs. Crystal Growth and Design, 2021, 21, 5983-5997.	3.0	9
28	Insight into the Humidity Dependent Pseudo-n-Type Response of p-CuScO ₂ toward Ammonia. Inorganic Chemistry, 2019, 58, 9974-9981.	4.0	8
29	Visible light boosting hydrophobic ZnO/(Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ chemiresistor toward ambient trimethylamine. Sensors and Actuators B: Chemical, 2022, 352, 131076.	7.8	8
30	High-Performance Planar-Type Photodetector Based on Hot-Pressed CsPbBr ₃ Wafer. Journal of Physical Chemistry Letters, 2022, 13, 3008-3015.	4.6	7
31	Tailoring Nucleation at Two Interfaces Enables Single Crystalline NiO Nanowires via Vapor-Liquid-Solid Route. ACS Applied Materials & Interfaces, 2016, 8, 27892-27899.	8.0	6
32	Quantitatively Discriminating Alcohol Molecules by Thermally Modulating NiO-Based Sensor Arrays. Advanced Materials Technologies, 2022, 7, 2100762.	5.8	6
33	Flash Surface Treatment of CH ₃ NH ₃ Pb ₃ Films Using 248-nm KrF Excimer Laser Enhances the Performance of Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900020.	5.8	5
34	Delafossite AgAlO ₂ modified long-period grating for highly-sensitive ammonia sensor. Optics Express, 2021, 29, 42005.	3.4	5
35	Bacterial cellulose templated p-Co ₃ O ₄ /n-ZnO nanocomposite with excellent VOCs response performance. Chinese Journal of Chemical Physics, 2020, 33, 477-484.	1.3	4
36	Unveiling low-temperature thermal oxidation growth of W ₁₈ O ₄₉ nanowires with metastable β -W films. Nanoscale, 2022, 14, 5002-5009.	5.6	2