

Xiaodong Fang

List of Publications by Year in descending order

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23
papers

753
citations

687363

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1205
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	An Efficient Approach to Fabricate Air-Stable Perovskite Solar Cells via Addition of a Self-Polymerizing Ionic Liquid. <i>Advanced Materials</i> , 2020, 32, e2003801.	21.0	84
7	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
8	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
9	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
10	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
11	Flash Surface Treatment of CH ₃ NH ₃ PbI ₃ Films Using 248-nm KrF Excimer Laser Enhances the Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900020.	5.8	5
12	Retarding Thermal Degradation in Hybrid Perovskites by Ionic Liquid Additives. <i>Advanced Functional Materials</i> , 2019, 29, 1902021.	14.9	76
13	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
14	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
15	Bioinspired Design of Strong, Tough, and Highly Conductive Polyol-Polypyrrole Composites for Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5692-5698.	8.0	64
16	Magnetically directed soft actuators driven by moisture. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4129-4133.	5.5	16
17	Nanosecond laser ablation tandem inductively coupled plasma mass and optical emission spectrometry for micro-chemical elemental analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2246-2253.	3.0	1
18	Room temperature deposition of amorphous p-type CuFeO ₂ and fabrication of CuFeO ₂ /n-Si heterojunction by RF sputtering method. <i>Bulletin of Materials Science</i> , 2016, 39, 883-887.	1.7	9

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19	Credible evidence for the passivation effect of remnant PbI_2 in $\text{CH}_3\text{NH}_3\text{PbI}_3$ films in improving the performance of perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6600-6608.	5.6	86
20	The morphologies and optoelectronic properties of delafossite CuFeO_2 thin films prepared by PEG assisted sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 297-302.	2.4	17
21	Fabrication of polycrystalline $\text{La}_2\text{NiMnO}_6$ thin films on Si (1 0 0) substrates by chemical solution deposition. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 655-659.	2.4	2
22	Effect of homo-buffer layers on the optical properties of ZnO thin films grown by pulsed laser deposition on Si (100). <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 538-542.	2.2	3
23	Synthesis of CuAlO_2 ceramics using sol-gel. <i>Materials Letters</i> , 2007, 61, 686-689.	2.6	69