

# Gang Bai

## List of Publications by Year in descending order

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25  
papers

186  
citations

1163117

8  
h-index

1125743

13  
g-index

25  
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25  
docs citations

25  
times ranked

225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Ordered SnO <sub>2</sub> Nanostructures with Enhanced Humidity Sensing Performance. <i>Sensors</i> , 2017, 17, 2392.	3.8	32
2	Phenomenological analysis of phase transitions in epitaxial perovskite ferroelectric thin films. <i>Physica B: Condensed Matter</i> , 2010, 405, 1901-1907.	2.7	26
3	The flexoelectric effect associated size dependent pyroelectricity in solid dielectrics. <i>AIP Advances</i> , 2015, 5, .	1.3	16
4	Depth-dependent humidity sensing properties of silicon nanopillar array. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 526-533.	7.8	15
5	A metal/Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> /SiO <sub>2</sub> /Si single film device for charge trapping memory towards a large memory window. <i>Applied Physics Letters</i> , 2017, 110, 223501.	3.3	15
6	Properties of S-Functionalized Nitrogen-Based MXene (Ti <sub>2</sub> NS <sub>2</sub> ) as a Hosting Material for Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2021, 11, 2478.	4.1	12
7	Phase diagrams classification based on machine learning and phenomenological investigation of physical properties in K <sub>1-x</sub> NaxNbO <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2020, 127, 154101.	2.5	9
8	Organic Vapour Sensing Properties of Area-Ordered and Size-Controlled Silicon Nanopillar. <i>Sensors</i> , 2016, 16, 1880.	3.8	8
9	Large negative piezocaloric effect: Uniaxial stress effect. <i>Solid State Communications</i> , 2019, 291, 11-14.	1.9	8
10	Impact of thermal stress on the piezoelectric and dielectric properties of PbTiO <sub>3</sub> thick films on various substrates. <i>Journal of Applied Physics</i> , 2014, 116, 054103.	2.5	7
11	Phenomenological analysis of elastocaloric effect in ferroelectric poly(vinylidene fluoride) thin films. <i>Journal of Applied Physics</i> , 2014, 116, 054103.	2.5	6
12	Sensing mechanism of hydrogen storage on Li, Na and K-decorated Ti <sub>2</sub> C. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	6
13	Effect of the out-of-plane stress on the properties of epitaxial SrTiO <sub>3</sub> films with nano-pillar array on Si-substrate. <i>Journal of Applied Physics</i> , 2015, 118, 074101.	2.5	5
14	Microscopic observation of lateral and vertical charge transportation in Si nanocrystals sandwiched by amorphous SiC layers. <i>AIP Advances</i> , 2018, 8, 015224.	1.3	4
15	A separable nonlinear least squares approach for double-diode photovoltaic model parameter extraction. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	2.0	4
16	Highly Transparent Bipolar Resistive Switching Memory in Zr <sub>0.5</sub> Hf <sub>0.5</sub> O <sub>2</sub> Films With Amorphous Semiconducting In <sub>2</sub> O <sub>3</sub> as Electrode. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 3244-3249.	3.0	3
17	A generalized thermodynamic frame of magneto-electric-caloric coupling effects of single phase epitaxial multiferroic thin films. <i>Ferroelectrics</i> , 2018, 531, 186-195.	0.6	3
18	Pyroelectric property of SrTiO <sub>3</sub> /Si ferroelectric-semiconductor heterojunctions near room temperature. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550031.	2.4	2

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19	Physical properties in polydomain <i>c/a/c/a</i> phase PbTiO <sub>3</sub> ferroelectric thick films: effect of thermal stresses. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	2
20	Design of a 3-channel 5ÂGb/s/ch deserializer array for high-speed parallel links. <i>Analog Integrated Circuits and Signal Processing</i> , 2015, 82, 197-207.	1.4	1
21	Inhomogeneous probe surface induced effect in Kelvin probe force microscopy. <i>Journal of Applied Physics</i> , 2020, 127, 184302.	2.5	1
22	Design and Research of Enhanced LED Performance Based on Graphical Substrate with Multilayer Hyperbolic Metamaterials. <i>Plasmonics</i> , 2021, 16, 1593-1604.	3.4	1
23	A &#x03A3;-&#x0394; fractional-N frequency synthesizer in 0.18&#x00B5;M CMOS technology. , 2014, , .		0
24	Bipolar transparent resistive switching based in a-IGZO/STO/a-IGZO structure for nonvolatile memory application. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
25	Phase transitions and electrocaloric effects of (111)-oriented K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub> epitaxial films: effect of external stress and misfit strains. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.5	0