

Wenbo

List of Publications by Year in descending order

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papers

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845
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltage-programmable negative differential resistance in memristor of single-crystalline lithium niobate thin film. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	11
2	Ion Implantation Caused Defects and Their Effects on LiTaO_3 Crystal Exfoliation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	1
3	Reliable resistive switching and synaptic plasticity in Ar^+ -irradiated single-crystalline LiNbO_3 memristor. <i>Applied Surface Science</i> , 2022, 596, 153653.	6.1	15
4	Highly heterogeneous epitaxy of flexoelectric BaTiO_3 membrane on Ge. <i>Nature Communications</i> , 2022, 13, .	12.8	22
5	BAW Resonator with an Optimized $\text{SiO}_2/\text{Ta}_2\text{O}_5$ Reflector for 5G Applications. <i>ACS Omega</i> , 2022, 7, 20994-20999.	3.5	8
6	A synaptic memristor based on two-dimensional layered WSe_2 nanosheets with short- and long-term plasticity. <i>Nanoscale</i> , 2021, 13, 6654-6660.	5.6	51
7	Effects of helium implantation fluence on the crystal-ion-slicing fabrication of Y-cut lithium niobate film. <i>Materials Express</i> , 2021, 11, 717-723.	0.5	2
8	Effects of rapid thermal annealing parameters on crystal ion slicing-fabricated LiTaO_3 thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	2
9	Resistive Switching Effects of Crystal Ion Slicing Fabricated LiNbO_3 Single Crystalline Thin Film on Flexible Polyimide Substrate. <i>Advanced Electronic Materials</i> , 2021, 7, 2100301.	5.1	10
10	A Solidly Mounted Resonator Fabricated by LiNbO_3 Single-Crystalline Film on Flexible Polyimide Substrate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2585-2589.	3.0	12
11	Effects of Ar^+ irradiation on the performance of memristor based on single-crystalline LiNbO_3 thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 20817-20826.	2.2	7
12	Fabrication of large-scale flexible silicon membrane by crystal-ion-slicing technique using BCB bonding layer. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
13	Observation of nonvolatile resistive switching behaviors in 2D layered InSe nanosheets through controllable oxidation. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
14	Oxygen vacancy induced phase and conductivity transition of epitaxial BaTiO_3 films directly grown on Ge (001) without surface passivation. <i>Journal of Applied Physics</i> , 2021, 129, 045302.	2.5	1
15	Lithium niobate single crystal thin film resonator with benzocyclobutene as a reflective layer. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 016502.	1.5	12
16	Mo/Ti multilayer Bragg reflector for LiNbO_3 film bulk acoustic wave resonators. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	23
17	A Low Temperature Drifting Acoustic Wave Pressure Sensor with an Integrated Vacuum Cavity for Absolute Pressure Sensing. <i>Sensors</i> , 2020, 20, 1788.	3.8	12
18	The thin film bulk acoustic wave resonator based on single-crystalline Y -cut lithium niobate thin films. <i>AIP Advances</i> , 2020, 10, .	1.3	26

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19	High specific detectivity infrared detector using crystal ion slicing transferred LiTaO ₃ single-crystal thin films. <i>Sensors and Actuators A: Physical</i> , 2019, 300, 111650.	4.1	10
20	Compliance-current-modulated resistive switching with multi-level resistance states in single-crystalline LiNbO ₃ thin film. <i>Solid State Ionics</i> , 2019, 334, 1-4.	2.7	4
21	Infrared detector based on crystal ion sliced LiNbO ₃ single-crystal film with BCB bonding and thermal insulating layer. <i>Microelectronic Engineering</i> , 2019, 213, 1-5.	2.4	15
22	Ar ⁺ ions irradiation induced memristive behavior and neuromorphic computing in monolithic LiNbO ₃ thin films. <i>Applied Surface Science</i> , 2019, 484, 751-758.	6.1	16
23	Ultra-high Efficient Integrated Microchannel Cooling for Multi-unit Microsystems. , 2019, , .		1
24	Fabrication of lead selenide thin film photodiode for near-infrared detection via O ₂ -plasma treatment. <i>Journal of Alloys and Compounds</i> , 2018, 753, 6-10.	5.5	12
25	Fabrication of Y128- and Y36-cut lithium niobate single-crystalline thin films by crystal-ion-slicing technique. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FK05.	1.5	14
26	Surface modifications of crystal-ion-sliced LiNbO ₃ thin films by low energy ion irradiations. <i>Applied Surface Science</i> , 2018, 434, 669-673.	6.1	28
27	Investigation of Temperature Fluctuation Resulted in Dissolved Gas for Single-Phase Microchannel Heat Sink. , 2018, , .		0
28	Microchannel Heat Sink with Enhanced Heat Transfer Performance by Laser Process. , 2018, , .		1
29	Numerical and Experimental Study of Valve-Less Micropump Using Dynamic Multiphysics Model. , 2018, , .		3
30	Investigation of Temperature Fluctuation Resulted in Dissolved Gas for Single-Phase Microchannel Heat Sink. , 2018, , .		0
31	A Comprehensive Study of a Micro-Channel Heat Sink Using Integrated Thin-Film Temperature Sensors. <i>Sensors</i> , 2018, 18, 299.	3.8	12
32	Investigation of the Temperature Fluctuation of Single-Phase Fluid Based Microchannel Heat Sink. <i>Sensors</i> , 2018, 18, 1498.	3.8	8
33	Lead free KNN/P(VDF-TrFE) 0â€³ pyroelectric composite films and its infrared sensor. <i>Infrared Physics and Technology</i> , 2017, 80, 100-104.	2.9	15
34	PMN-PT/PVDF Nanocomposite for High Output Nanogenerator Applications. <i>Nanomaterials</i> , 2016, 6, 67.	4.1	34
35	Rectifying filamentary resistive switching in ion-exfoliated LiNbO ₃ thin films. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	30
36	Forming free resistive switching in Au/TiO ₂ /Pt stack structure. <i>Thin Solid Films</i> , 2016, 617, 63-66.	1.8	15

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37	A simple implement of submicron meter RRAM array based on porous SiO ₂ film with uniform and large pores. <i>Vacuum</i> , 2016, 132, 119-122.	3.5	3
38	Surfactant-Assisted Hydrothermal Synthesis of PMN-PT Nanorods. <i>Nanoscale Research Letters</i> , 2016, 11, 49.	5.7	6
39	Ferroelectric and flexible barrier resistive switching of epitaxial BiFeO ₃ films studied by temperature-dependent current and capacitance spectroscopy. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7927-7932.	2.2	16
40	Monolithic pyroelectric infrared detectors using SiO ₂ aerogel thin films. <i>Sensors and Actuators A: Physical</i> , 2015, 228, 69-74.	4.1	15
41	Exploiting Memristive BiFeO ₃ Bilayer Structures for Compact Sequential Logics. <i>Advanced Functional Materials</i> , 2014, 24, 3357-3365.	14.9	116
42	Quick response PZT/P(VDF-TrFE) composite film pyroelectric infrared sensor with patterned polyimide thermal isolation layer. <i>Infrared Physics and Technology</i> , 2014, 66, 34-38.	2.9	21
43	An infrared pyroelectric detector improved by cool isostatic pressing with cup-shaped PZT thick film on silicon substrate. <i>Infrared Physics and Technology</i> , 2013, 61, 313-318.	2.9	8
44	Forming-Free Resistive Switching in Multiferroic BiFeO ₃ thin Films with Enhanced Nanoscale Shunts. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12764-12771.	8.0	50