

Yao Shuai

List of Publications by Year in descending order

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42
papers

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567281

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1214
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	Wide Band BAW Filter Based on Single-Crystalline LiNbO ₃ Thin Film With Insulating Bragg Reflector. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1535-1541.	3.0	15
3	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
4	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
5	A Memristor-Based Bioinspired Multimodal Sensory Memory System for Sensory Adaptation of Robots. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	4
6	BAW Resonator with an Optimized SiO ₂ /Ta ₂ O ₅ Reflector for 5G Applications. <i>ACS Omega</i> , 2022, 7, 20994-20999.	3.5	8
7	Highly precise Ti/Pt/Cr/Au thin-film temperature sensor embedded in a microfluidic device. <i>Rare Metals</i> , 2021, 40, 195-201.	7.1	7
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	Mo/Ti multilayer Bragg reflector for LiNbO ₃ film bulk acoustic wave resonators. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	23
14	The thin film bulk acoustic wave resonator based on single-crystalline 43°-Y-cut lithium niobate thin films. <i>AIP Advances</i> , 2020, 10, .	1.3	26
15	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
16	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
17	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
18	The electrical properties of single-crystalline Z-cut LiNbO ₃ thin films fabricated by crystal-ion-slicing technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8996-9002.	2.2	3

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19	Ar ⁺ ions irradiation induced memristive behavior and neuromorphic computing in monolithic LiNbO ₃ thin films. Applied Surface Science, 2019, 484, 751-758.	6.1	16
20	Ultra-high Efficient Integrated Microchannel Cooling for Multi-unit Microsystems. , 2019, , .		1
21	Fabrication of Y128- and Y36-cut lithium niobate single-crystalline thin films by crystal-ion-slicing technique. Japanese Journal of Applied Physics, 2018, 57, 04FK05.	1.5	14
22	Surface modifications of crystal-ion-sliced LiNbO ₃ thin films by low energy ion irradiations. Applied Surface Science, 2018, 434, 669-673.	6.1	28
23	Investigation of Temperature Fluctuation Resulted in Dissolved Gas for Single-Phase Microchannel Heat Sink. , 2018, , .		0
24	Microchannel Heat Sink with Enhanced Heat Transfer Performance by Laser Process. , 2018, , .		1
25	Numerical and Experimental Study of Valve-Less Micropump Using Dynamic Multiphysics Model. , 2018, , .		3
26	Investigation of Temperature Fluctuation Resulted in Dissolved Gas for Single-Phase Microchannel Heat Sink. , 2018, , .		0
27	A Comprehensive Study of a Micro-Channel Heat Sink Using Integrated Thin-Film Temperature Sensors. Sensors, 2018, 18, 299.	3.8	12
28	Investigation of the Temperature Fluctuation of Single-Phase Fluid Based Microchannel Heat Sink. Sensors, 2018, 18, 1498.	3.8	8
29	Switchable diode effect in oxygen vacancy-modulated SrTiO ₃ single crystal. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	20
30	Rectifying filamentary resistive switching in ion-exfoliated LiNbO ₃ thin films. Applied Physics Letters, 2016, 108, .	3.3	30
31	Plasma-Induced Nonvolatile Resistive Switching with Extremely Low SET Voltage in TiO _x F _y with AgF Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 32956-32962.	8.0	9
32	Resistive switching behavior in single crystal SrTiO ₃ annealed by laser. Applied Surface Science, 2016, 389, 1104-1107.	6.1	28
33	Ferroelectric and flexible barrier resistive switching of epitaxial BiFeO ₃ films studied by temperature-dependent current and capacitance spectroscopy. Journal of Materials Science: Materials in Electronics, 2016, 27, 7927-7932.	2.2	16
34	Exploiting Memristive BiFeO ₃ Bilayer Structures for Compact Sequential Logics. Advanced Functional Materials, 2014, 24, 3357-3365.	14.9	116
35	Forming-Free Resistive Switching in Multiferroic BiFeO ₃ thin Films with Enhanced Nanoscale Shunts. ACS Applied Materials & Interfaces, 2013, 5, 12764-12771.	8.0	50
36	A model based comparison of BiFeO ₃ device applicability in neuromorphic hardware. , 2013, , .		8

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37	Improved retention of nonvolatile bipolar BiFeO ₃ resistive memories validated by memristance measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 636-639.	0.8	16
38	Substrate effect on the resistive switching in BiFeO ₃ thin films. Journal of Applied Physics, 2012, 111, .	2.5	26
39	Decisive role of oxygen vacancy in ferroelectric versus ferromagnetic Mn-doped BaTiO ₃ thin films. Journal of Applied Physics, 2011, 109, .	2.5	112
40	Nonvolatile bipolar resistive switching in Au/BiFeO ₃ /Pt. Journal of Applied Physics, 2011, 109, 124117.	2.5	116
41	Control of Rectifying and Resistive Switching Behavior in BiFeO ₃ Thin Films. Applied Physics Express, 2011, 4, 095802.	2.4	22
42	Reduced leakage current in BiFeO ₃ thin films with rectifying contacts. Applied Physics Letters, 2011, 98, .	3.3	39