

Nan Du

List of Publications by Year in descending order

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33
times ranked

814
citing authors

#	ARTICLE	IF	CITATIONS
1	Second Harmonic Generation Exploiting Ultra-Stable Resistive Switching Devices for Secure Hardware Systems. IEEE Nanotechnology Magazine, 2022, 21, 71-80.	2.0	5
2	Nano Security: From Nano-Electronics to Secure Systems. , 2021, , .		3
3	Detecting Bacterial Cell Viability in Few μ L Solutions from Impedance Measurements on Silicon-Based Biochips. International Journal of Molecular Sciences, 2021, 22, 3541.	4.1	1
4	Low-power emerging memristive designs towards secure hardware systems for applications in internet of things. Nano Materials Science, 2021, 3, 186-204.	8.8	22
5	Synaptic Plasticity in Memristive Artificial Synapses and Their Robustness Against Noisy Inputs. Frontiers in Neuroscience, 2021, 15, 660894.	2.8	17
6	Towards Reliable In-Memory Computing: From Emerging Devices to Post-von-Neumann Architectures. , 2021, , .		3
7	Towards Bacteria Counting in DI Water of Several Microliters or Growing Suspension Using Impedance Biochips. Biosensors, 2020, 10, 82.	4.7	2
8	Disturbing-Free Determination of Yeast Concentration in DI Water and in Glucose Using Impedance Biochips. Biosensors, 2020, 10, 7.	4.7	4
9	Charged domains in ferroelectric, polycrystalline yttrium manganite thin films resolved with scanning electron microscopy. Nanotechnology, 2020, 31, 31LT01.	2.6	4
10	Electroforming-free Memristors for Hardware Security Primitives. , 2019, , .		3
11	Electroforming-free resistive switching in yttrium manganite thin films by cationic substitution. Journal of Applied Physics, 2019, 126, .	2.5	9
12	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
13	Electroforming-free BiFeO ₃ switches for neuromorphic computing: Spike-timing dependent plasticity (STDP) and cycle-number dependent plasticity (CNDP). , 2019, , .		3
14	P-N Junction-Based Si Biochips with Ring Electrodes for Novel Biosensing Applications. Biosensors, 2019, 9, 120.	4.7	5
15	Field-Driven Hopping Transport of Oxygen Vacancies in Memristive Oxide Switches with Interface-Mediated Resistive Switching. Physical Review Applied, 2018, 10, .	3.8	34
16	Electroforming-free resistive switching in polycrystalline YMnO ₃ thin films. Journal of Applied Physics, 2018, 124, .	2.5	5
17	Multi-level switching in TiO _x F _y film with nanoparticles. Journal Physics D: Applied Physics, 2017, 50, 385106.	2.8	0
18	An Energy-Efficient, BiFeO ₃ -Coated Capacitive Switch with Integrated Memory and Demodulation Functions. Advanced Electronic Materials, 2016, 2, 1500352.	5.1	19

#	ARTICLE	IF	CITATIONS
19	Capacitive Switching: An Energy-Efficient, BiFeO ₃ -Coated Capacitive Switch with Integrated Memory and Demodulation Functions (<i>Adv. Electron. Mater.</i> 3/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	5.1	0
20	Plasma-Induced Nonvolatile Resistive Switching with Extremely Low SET Voltage in TiO _x F _y with AgF Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32956-32962.	8.0	9
21	BiFeO ₃ memristor-based encryption of medical data. , 2016, , .		0
22	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
23	Engineering interface-type resistive switching in BiFeO ₃ thin film switches by Ti implantation of bottom electrodes. <i>Scientific Reports</i> , 2015, 5, 18623.	3.3	29
24	Single pairing spike-timing dependent plasticity in BiFeO ₃ memristors with a time window of 25 ms to 125 μ s. <i>Frontiers in Neuroscience</i> , 2015, 9, 227.	2.8	54
25	Transport properties of Ar ⁺ irradiated resistive switching BiFeO ₃ thin films. <i>Applied Surface Science</i> , 2015, 336, 354-358.	6.1	11
26	Novel implementation of memristive systems for data encryption and obfuscation. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	11
27	Bipolar Electric-Field Enhanced Trapping and Detrapping of Mobile Donors in BiFeO ₃ Memristors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19758-19765.	8.0	84
28	Exploiting Memristive BiFeO ₃ Bilayer Structures for Compact Sequential Logics. <i>Advanced Functional Materials</i> , 2014, 24, 3357-3365.	14.9	116
29	Resistive switching in unstructured, polycrystalline BiFeO ₃ thin films with downscaled electrodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2563-2568.	1.8	8
30	Resistive switching in thin multiferroic films. , 2013, , .		4
31	Nonvolatile Multilevel Resistive Switching in Ar^+ Irradiated BiFeO_3 Thin Films. <i>IEEE Electron Device Letters</i> , 2013, 34, 54-56.	3.9	30
32	Practical guide for validated memristance measurements. <i>Review of Scientific Instruments</i> , 2013, 84, 023903.	1.3	43
33	Improved retention of nonvolatile bipolar BiFeO ₃ resistive memories validated by memristance measurements. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 636-639.	0.8	16