## Nan Du

## List of Publications by Year in descending order

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687363 610901 33 586 13 24 citations h-index g-index papers 33 33 33 814 citing authors all docs docs citations times ranked

#	Article	IF	Citations
1	Exploiting Memristive BiFeO <sub>3</sub> Bilayer Structures for Compact Sequential Logics. Advanced Functional Materials, 2014, 24, 3357-3365.	14.9	116
2	Bipolar Electric-Field Enhanced Trapping and Detrapping of Mobile Donors in BiFeO <sub>3</sub> Memristors. ACS Applied Materials & Samp; Interfaces, 2014, 6, 19758-19765.	8.0	84
3	Single pairing spike-timing dependent plasticity in BiFeO3 memristors with a time window of 25 ms to 125 νs. Frontiers in Neuroscience, 2015, 9, 227.	2.8	54
4	Practical guide for validated memristance measurements. Review of Scientific Instruments, 2013, 84, 023903.	1.3	43
5	Field-Driven Hopping Transport of Oxygen Vacancies in Memristive Oxide Switches with Interface-Mediated Resistive Switching. Physical Review Applied, 2018, 10, .	3.8	34
6	Nonvolatile Multilevel Resistive Switching in \$ hbox{Ar}^{+}\$ Irradiated \$hbox{BiFeO}_{3}\$ Thin Films. IEEE Electron Device Letters, 2013, 34, 54-56.	3.9	30
7	Engineering interface-type resistive switching in BiFeO3 thin film switches by Ti implantation of bottom electrodes. Scientific Reports, 2015, 5, 18623.	3.3	29
8	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
9	An Energyâ€Efficient, BiFeO <sub>3</sub> â€Coated Capacitive Switch with Integrated Memory and Demodulation Functions. Advanced Electronic Materials, 2016, 2, 1500352.	5.1	19
10	Synaptic Plasticity in Memristive Artificial Synapses and Their Robustness Against Noisy Inputs. Frontiers in Neuroscience, 2021, 15, 660894.	2.8	17
11	Improved retention of nonvolatile bipolar BiFeO <sub>3</sub> resistive memories validated by memristance measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 636-639.	0.8	16
12	Ferroelectric and flexible barrier resistive switching of epitaxial BiFeO3 films studied by temperature-dependent current and capacitance spectroscopy. Journal of Materials Science: Materials in Electronics, 2016, 27, 7927-7932.	2.2	16
13	Ar+ ions irradiation induced memristive behavior and neuromorphic computing in monolithic LiNbO3 thin films. Applied Surface Science, 2019, 484, 751-758.	6.1	16
14	Novel implementation of memristive systems for data encryption and obfuscation. Journal of Applied Physics, 2014, 115, .	2.5	11
15	Transport properties of Ar+ irradiated resistive switching BiFeO3 thin films. Applied Surface Science, 2015, 336, 354-358.	6.1	11
16	Plasma-Induced Nonvolatile Resistive Switching with Extremely Low SET Voltage in TiO <sub><i>x</i></sub>	8.0	9
17	Electroforming-free resistive switching in yttrium manganite thin films by cationic substitution. Journal of Applied Physics, 2019, 126, .	2.5	9
18	Resistive switching in unstructured, polycrystalline BiFeO <sub>3</sub> thin films with downscaled electrodes. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2563-2568.	1.8	8

#	Article	IF	CITATIONS
19	Electroforming-free resistive switching in polycrystalline YMnO3 thin films. Journal of Applied Physics, 2018, $124$ , .	2.5	5
20	P-N Junction-Based Si Biochips with Ring Electrodes for Novel Biosensing Applications. Biosensors, 2019, 9, 120.	4.7	5
21	Second Harmonic Generation Exploiting Ultra-Stable Resistive Switching Devices for Secure Hardware Systems. IEEE Nanotechnology Magazine, 2022, 21, 71-80.	2.0	5
22	Resistive switching in thin multiferroic films. , 2013, , .		4
23	Disturbing-Free Determination of Yeast Concentration in DI Water and in Glucose Using Impedance Biochips. Biosensors, 2020, 10, 7.	4.7	4
24	Charged domains in ferroelectric, polycrystalline yttrium manganite thin films resolved with scanning electron microscopy. Nanotechnology, 2020, 31, 31LT01.	2.6	4
25	Electroforming-free Memristors for Hardware Security Primitives. , 2019, , .		3
26	Electroforming-free BiFeO <sub>3</sub> switches for neuromorphic computing: Spike-timing dependent plasticity (STDP) and cycle-number dependent plasticity (CNDP)., 2019,,.		3
27	Nano Security: From Nano-Electronics to Secure Systems., 2021,,.		3
28	Towards Reliable In-Memory Computing:From Emerging Devices to Post-von-Neumann Architectures., 2021,,.		3
29	Towards Bacteria Counting in DI Water of Several Microliters or Growing Suspension Using Impedance Biochips. Biosensors, 2020, 10, 82.	4.7	2
30	Detecting Bacterial Cell Viability in Few µL Solutions from Impedance Measurements on Silicon-Based Biochips. International Journal of Molecular Sciences, 2021, 22, 3541.	4.1	1
31	Capacitive Switching: An Energy-Efficient, BiFeO3-Coated Capacitive Switch with Integrated Memory and Demodulation Functions (Adv. Electron. Mater. 3/2016). Advanced Electronic Materials, 2016, 2, .	5.1	0
32	BiFeO3 memristor-based encryption of medical data., 2016,,.		0
33	Multi-level switching in TiO <sub><i>x</i></sub> F <sub><i>y</i></sub> film with nanoparticles. Journal Physics D: Applied Physics, 2017, 50, 385106.	2.8	O