

Zheng Wang

List of Publications by Year in descending order

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papers

462
citations

687363

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times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency of Ferroelectric Field-Effect Transistors: An Experimental Study. IEEE Transactions on Electron Devices, 2022, 69, 1568-1574.	3.0	5
2	A Technology Path for Scaling Embedded FeRAM to 28 nm and Beyond With 2T1C Structure. IEEE Transactions on Electron Devices, 2022, 69, 109-114.	3.0	5
3	An Empirical Compact Model for Ferroelectric Field-Effect Transistor Calibrated to Experimental Data. IEEE Transactions on Electron Devices, 2022, 69, 1519-1523.	3.0	3
4	Antiferroelectric negative capacitance from a structural phase transition in zirconia. Nature Communications, 2022, 13, 1228.	12.8	22
5	The Effect of Annealing Temperature on Antiferroelectric Zirconia. , 2022, , .		0
6	Exploring argon plasma effect on ferroelectric Hf _{0.5} Zr _{0.5} O ₂ thin film atomic layer deposition. Journal of Materials Research, 2021, 36, 1206-1213.	2.6	7
7	Differential charge boost in hysteretic ferroelectric dielectric heterostructure capacitors at steady state. Applied Physics Letters, 2021, 118, .	3.3	3
8	Characterization of Drain Current Variations in FeFETs for PIM-based DNN Accelerators. , 2021, , .		6
9	Extraction of Preisach model parameters for fluorite-structure ferroelectrics and antiferroelectrics. Scientific Reports, 2021, 11, 12474.	3.3	5
10	The Impacts of Ferroelectric and Interfacial Layer Thicknesses on Ferroelectric FET Design. IEEE Electron Device Letters, 2021, 42, 1156-1159.	3.9	19
11	Impact of HKMG and FDSOI FeFET drain current variation in processing-in-memory architectures. Journal of Materials Research, 2021, 36, 4379-4393.	2.6	0
12	Exploring argon plasma effect on ferroelectric Hf _{0.5} Zr _{0.5} O ₂ thin film atomic layer deposition. Journal of Materials Research, 2021, 36, 1-8.	2.6	0
13	Characterizing Ferroelectric Properties of Hf _{0.5} Zr _{0.5} O ₂ From Deep-Cryogenic Temperature (4 K) to 400 K. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2021, 7, 168-174.	1.5	11
14	Direct comparison of ferroelectric properties in Hf _{0.5} Zr _{0.5} O ₂ between thermal and plasma-enhanced atomic layer deposition. Nanotechnology, 2020, 31, 505707.	2.6	45
15	Investigating Ferroelectric Minor Loop Dynamics and History Effect—Part I: Device Characterization. IEEE Transactions on Electron Devices, 2020, 67, 3592-3597.	3.0	18
16	Drain—Erase Scheme in Ferroelectric Field-Effect Transistor—Part I: Device Characterization. IEEE Transactions on Electron Devices, 2020, 67, 955-961.	3.0	26
17	Drain-Erase Scheme in Ferroelectric Field Effect Transistor—Part II: 3-D-NAND Architecture for In-Memory Computing. IEEE Transactions on Electron Devices, 2020, 67, 962-967.	3.0	29
18	Cryogenic characterization of a ferroelectric field-effect-transistor. Applied Physics Letters, 2020, 116, .	3.3	19

#	ARTICLE	IF	CITATIONS
19	Investigating Ferroelectric Minor Loop Dynamics and History Effect—Part II: Physical Modeling and Impact on Neural Network Training. IEEE Transactions on Electron Devices, 2020, 67, 3598-3604.	3.0	15
20	Depolarization Field Induced Instability of Polarization States in HfO ₂ Based Ferroelectric FET. , 2020, , .		11
21	Interplay of Switching Characteristics, Cycling Endurance and Multilevel Retention of Ferroelectric Capacitor. , 2020, , .		11
22	Ferroelectric Relaxation Oscillators and Spiking Neurons. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2019, 5, 151-157.	1.5	14
23	A Swarm Optimization Solver Based on Ferroelectric Spiking Neural Networks. Frontiers in Neuroscience, 2019, 13, 855.	2.8	18
24	Neuro-Mimetic Dynamics of a Ferroelectric FET-Based Spiking Neuron. IEEE Electron Device Letters, 2019, 40, 1213-1216.	3.9	39
25	Cryogenic Characterization of Antiferroelectric Zirconia down to 50 mK. , 2019, , .		2
26	Investigating Dynamic Minor Loop of Ferroelectric Capacitor. , 2019, , .		2
27	Epitaxial growth and dielectric characterization of atomically smooth 0.5Ba(Zr0.2Ti0.8)O ₃ –0.5(Ba0.7Ca0.3)TiO ₃ thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	5
28	Experimental Demonstration of Ferroelectric Spiking Neurons for Unsupervised Clustering. , 2018, , .		55
29	Antiferroelectricity in lanthanum doped zirconia without metallic capping layers and post-deposition/-metallization anneals. Applied Physics Letters, 2018, 112, .	3.3	21
30	Ferroelectric Oscillators and Their Coupled Networks. IEEE Electron Device Letters, 2017, 38, 1614-1617.	3.9	46