

Zheng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

462
citations

687363

13
h-index

752698

20
g-index

30
all docs

30
docs citations

30
times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Demonstration of Ferroelectric Spiking Neurons for Unsupervised Clustering. , 2018, , .		55
2	Ferroelectric Oscillators and Their Coupled Networks. IEEE Electron Device Letters, 2017, 38, 1614-1617.	3.9	46
3	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
4	Neuro-Mimetic Dynamics of a Ferroelectric FET-Based Spiking Neuron. IEEE Electron Device Letters, 2019, 40, 1213-1216.	3.9	39
5	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
6	Drain—Erase Scheme in Ferroelectric Field-Effect Transistor—Part I: Device Characterization. IEEE Transactions on Electron Devices, 2020, 67, 955-961.	3.0	26
7	Antiferroelectric negative capacitance from a structural phase transition in zirconia. Nature Communications, 2022, 13, 1228.	12.8	22
8	Antiferroelectricity in lanthanum doped zirconia without metallic capping layers and post-deposition/-metallization anneals. Applied Physics Letters, 2018, 112, .	3.3	21
9	Cryogenic characterization of a ferroelectric field-effect-transistor. Applied Physics Letters, 2020, 116, .	3.3	19
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	A Swarm Optimization Solver Based on Ferroelectric Spiking Neural Networks. Frontiers in Neuroscience, 2019, 13, 855.	2.8	18
12	Investigating Ferroelectric Minor Loop Dynamics and History Effect—Part I: Device Characterization. IEEE Transactions on Electron Devices, 2020, 67, 3592-3597.	3.0	18
13	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
14	Ferroelectric Relaxation Oscillators and Spiking Neurons. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2019, 5, 151-157.	1.5	14
15	Depolarization Field Induced Instability of Polarization States in HfO ₂ Based Ferroelectric FET. , 2020, , .		11
16	Interplay of Switching Characteristics, Cycling Endurance and Multilevel Retention of Ferroelectric Capacitor. , 2020, , .		11
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Characterization of Drain Current Variations in FeFETs for PIM-based DNN Accelerators. , 2021, , .		6
20	Epitaxial growth and dielectric characterization of atomically smooth $0.5\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3\text{-}0.5(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	5
21	Extraction of Preisach model parameters for fluorite-structure ferroelectrics and antiferroelectrics. Scientific Reports, 2021, 11, 12474.	3.3	5
22	Efficiency of Ferroelectric Field-Effect Transistors: An Experimental Study. IEEE Transactions on Electron Devices, 2022, 69, 1568-1574.	3.0	5
23	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
24	Differential charge boost in hysteretic ferroelectric dielectric heterostructure capacitors at steady state. Applied Physics Letters, 2021, 118, .	3.3	3
25	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
26	Cryogenic Characterization of Antiferroelectric Zirconia down to 50 mK. , 2019, , .		2
27	Investigating Dynamic Minor Loop of Ferroelectric Capacitor. , 2019, , .		2
28	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
29	Exploring argon plasma effect on ferroelectric $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ thin film atomic layer deposition. Journal of Materials Research, 2021, 36, 1-8.	2.6	0
30	The Effect of Annealing Temperature on Antiferroelectric Zirconia. , 2022, , .		0