

Xiao-Di Huang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Forming-Free, Fast, Uniform, and High Endurance Resistive Switching From Cryogenic to High Temperatures in W/AlO _x /Al ₂ O ₃ /Pt Bilayer Memristor. IEEE Electron Device Letters, 2020, 41, 549-552.	3.9	73
2	Low-Power Artificial Neurons Based on Ag/TiN/HfAlO _x /Pt Threshold Switching Memristor for Neuromorphic Computing. IEEE Electron Device Letters, 2020, 41, 1245-1248.	3.9	58
3	Low-Power Memristive Logic Device Enabled by Controllable Oxidation of 2D HfSe ₂ for In-Memory Computing. Advanced Science, 2021, 8, e2005038.	11.2	47
4	Controlled Memory and Threshold Switching Behaviors in a Heterogeneous Memristor for Neuromorphic Computing. Advanced Electronic Materials, 2020, 6, 2000309.	5.1	38
5	Reconfigurable Synaptic and Neuronal Functions in a V/VO _x /HfWO _x /Pt Memristor for Nonpolar Spiking Convolutional Neural Network. Advanced Functional Materials, 2022, 32, .	14.9	25
6	Design of High Robustness BNN Inference Accelerator Based on Binary Memristors. IEEE Transactions on Electron Devices, 2020, 67, 3435-3441.	3.0	22
7	Enhancement of DC/AC resistive switching performance in AlO _x memristor by two-technique bilayer approach. Applied Physics Letters, 2020, 116, 173504.	3.3	18
8	Controlled Majority-Inverter Graph Logic With Highly Nonlinear, Self-Rectifying Memristor. IEEE Transactions on Electron Devices, 2021, 68, 4897-4902.	3.0	12
9	Pt/Al ₂ O ₃ /TaO _x /Ta Self-Rectifying Memristor With Record-Low Operation Current ($\approx 2\text{ pA}$), Low Power (f), and High Scalability. IEEE Transactions on Electron Devices, 2022, 69, 838-842.	3.0	11
10	12.7 MA/cm ² On-Current Density and High Uniformity Realized in AgGeSe/Al ₂ O ₃ Selectors. IEEE Electron Device Letters, 2021, 42, 613-616.	3.9	4
11	Analysis of Memristive Quantized Convolutional Neural Network Accelerator with Device Nonideality. , 2020, , .		0