

Wei Dong Zhang

List of Publications by Citations

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58

papers

1,022

citations

17

h-index

30

g-index

75

ext. papers

1,325

ext. citations

3.2

avg. IF

4.03

L-index

#	Paper	IF	Citations
58	Recommended Methods to Study Resistive Switching Devices. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800143	6.4	297
57	Two-Pulse $C\delta V$: A New Method for Characterizing Electron Traps in the Bulk of $\text{SiO}_2/\text{high-}\kappa$ Dielectric Stacks. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1043-1046	4.4	46
56	The role of nitrogen doping in ALD Ta2O5 and its influence on multilevel cell switching in RRAM. <i>Applied Physics Letters</i> , 2017 , 110, 102902	3.4	36
55	A Single Pulse Charge Pumping Technique for Fast Measurements of Interface States. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1490-1498	2.9	33
54	Energy Distribution of Positive Charges in Gate Dielectric: Probing Technique and Impacts of Different Defects. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 1745-1753	2.9	31
53	An Investigation on Border Traps in $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ Channel. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3633-3639	2.9	30
52	Two types of neutral electron traps generated in the gate silicon dioxide. <i>IEEE Transactions on Electron Devices</i> , 2002 , 49, 1868-1875	2.9	28
51	Energy and Spatial Distributions of Electron Traps Throughout $\text{SiO}_2/\text{Al}_2\text{O}_3$ Stacks as the IPD in Flash Memory Application. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 288-296	2.9	25
50	Impact of RTN on Pattern Recognition Accuracy of RRAM-Based Synaptic Neural Network. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1652-1655	4.4	25
49	Reliable Time Exponents for Long Term Prediction of Negative Bias Temperature Instability by Extrapolation. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1467-1473	2.9	24
48	Robust fuzzy control for fractional-order systems with estimated fraction-order. <i>Nonlinear Dynamics</i> , 2019 , 98, 2375-2385	5	24
47	Dynamic programming strategy based on a type-2 fuzzy wavelet neural network. <i>Nonlinear Dynamics</i> , 2019 , 95, 1661-1672	5	24
46	New Analysis Method for Time-Dependent Device-To-Device Variation Accounting for Within-Device Fluctuation. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2505-2511	2.9	21
45	A New Multipulse Technique for Probing Electron Trap Energy Distribution in High- κ Materials for Flash Memory Application. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 2484-2492	2.9	20
44	On the interface states generated under different stress conditions. <i>Applied Physics Letters</i> , 2001 , 79, 3092-3094	3.4	20
43	Committee machines-a universal method to deal with non-idealities in memristor-based neural networks. <i>Nature Communications</i> , 2020 , 11, 4273	17.4	20
42	Enhanced switching stability in Ta2O5 resistive RAM by fluorine doping. <i>Applied Physics Letters</i> , 2017 , 111, 092904	3.4	17

41	The Over-Reset Phenomenon in Ta2O5 RRAM Device Investigated by the RTN-Based Defect Probing Technique. <i>IEEE Electron Device Letters</i> , 2018 , 39, 955-958	4.4	15
40	Dependence of Switching Probability on Operation Conditions in GexSe1-x Ovonic Threshold Switching Selectors. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1269-1272	4.4	15
39	Development of a Technique for Characterizing Bias Temperature Instability-Induced Device-to-Device Variation at SRAM-Relevant Conditions. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 3081-3089	2.9	15
38	Key Issues and Solutions for Characterizing Hot Carrier Aging of Nanometer Scale nMOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 2478-2484	2.9	14
37	Insight Into Electron Traps and Their Energy Distribution Under Positive Bias Temperature Stress and Hot Carrier Aging. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 3642-3648	2.9	14
36	Effects of detrapping on electron traps generated in gate oxides. <i>Semiconductor Science and Technology</i> , 2003 , 18, 174-182	1.8	13
35	A low-power and high-speed True Random Number Generator using generated RTN 2018 ,		13
34	As-grown-Generation Model for Positive Bias Temperature Instability. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3662-3668	2.9	12
33	New Insights Into Defect Loss, Slowdown, and Device Lifetime Enhancement. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 413-419	2.9	12
32	. <i>IEEE Access</i> , 2017 , 5, 20946-20952	3.5	12
31	Investigation of Preexisting and Generated Defects in Nonfilamentary a-Si/TiO2 RRAM and Their Impacts on RTN Amplitude Distribution. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 970-977	2.9	11
30	Energy Distribution of Positive Charges in $\text{Al}_2\text{O}_3/\text{GeO}_2/\text{Ge}$ pMOSFETs. <i>IEEE Electron Device Letters</i> , 2014 , 35, 160-162	4.4	11
29	. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4011-4017	2.9	11
28	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1344-1351	2.9	11
27	Probing the Critical Region of Conductive Filament in Nanoscale HfO2 Resistive-Switching Device by Random Telegraph Signals. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4099-4105	2.9	9
26	TDDDB Mechanism in a-Si/TiO2 Nonfilamentary RRAM Device. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 777-784	2.9	9
25	Investigation of Abnormal $V_{\text{TH}}/V_{\text{FB}}$ Shifts Under Operating Conditions in Flash Memory Cells With Al_2O_3 High- κ Gate Stacks. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 1870-1877	2.9	8
24	. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1307-1315	2.9	8

23	Trigger-When-Charged: A Technique for Directly Measuring RTN and BTI-Induced Threshold Voltage Fluctuation Under Use- $\{V\}_{dd}$. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1482-1488	2.9	7
22	GeSe-Based Ovonic Threshold Switching Volatile True Random Number Generator. <i>IEEE Electron Device Letters</i> , 2020 , 41, 228-231	4.4	7
21	An Assessment of the Statistical Distribution of Random Telegraph Noise Time Constants. <i>IEEE Access</i> , 2020 , 8, 182273-182282	3.5	7
20	Structural changes during the switching transition of chalcogenide selector devices. <i>Applied Physics Letters</i> , 2019 , 115, 163503	3.4	6
19	Tailoring the synaptic properties of a-IGZO memristors for artificial deep neural networks. <i>APL Materials</i> , 2022 , 10, 011113	5.7	6
18	Impact of Hot Carrier Aging on Random Telegraph Noise and Within a Device Fluctuation. <i>IEEE Journal of the Electron Devices Society</i> , 2016 , 4, 15-21	2.3	5
17	. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 783-790	2.9	5
16	A robust control of a class of induction motors using rough type-2 fuzzy neural networks. <i>Soft Computing</i> , 2020 , 24, 9809-9819	3.5	5
15	General type-2 fuzzy multi-switching synchronization of fractional-order chaotic systems. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 100, 104163	7.2	5
14	. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 3830-3836	2.9	5
13	. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 1924-1930	2.9	4
12	On the Accuracy in Modeling the Statistical Distribution of Random Telegraph Noise Amplitude. <i>IEEE Access</i> , 2021 , 9, 43551-43561	3.5	4
11	RTN in GexSe1-x OTS selector devices. <i>Microelectronic Engineering</i> , 2019 , 215, 110990	2.5	3
10	Experimental Evidence Toward Understanding Charge Pumping Signals in 3-D Devices With Poly-Si Channel. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1501-1507	2.9	3
9	Read and Pass Disturbance in the Programmed States of Floating Gate Flash Memory Cells With High- κ Interpoly Gate Dielectric Stacks. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2261-2267	2.9	3
8	A Discharge-Based Pulse Technique for Probing the Energy Distribution of Positive Charges in Gate Dielectric. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2015 , 28, 221-226	2.6	2
7	Stochastic Computing Based on Volatile GeSe Ovonic Threshold Switching Selectors. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1496-1499	4.4	2
6	A Fast Extraction Method of Energy Distribution of Border Traps in AlGaN/GaN MIS-HEMT. <i>IEEE Journal of the Electron Devices Society</i> , 2020 , 8, 905-910	2.3	2

5	Cycling Induced Metastable Degradation in GeSe Ovonic Threshold Switching Selector. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1448-1451	4.4	2
4	An Integral Methodology for Predicting Long-Term RTN. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	2
3	Evaluation and Solutions for P/E Window Instability Induced by Electron Trapping in High- κ Intergate Dielectrics of Flash Memory Cells. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1299-1306	2.9	0
2	Impact of relaxation on the performance of GeSe true random number generator based on Ovonic threshold switching. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	0
1	A Comparative Study of AC Positive Bias Temperature Instability of Germanium nMOSFETs With GeO ₂ /Ge and Si-cap/Ge Gate Stack. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 539-544	2.3	