Jian F Zhang

List of Publications by Year in descending order

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| 149 | 2,215 | 27 h-index | 37 |
|----------|----------------|--------------|----------------|
| papers | citations | | g-index |
| 150 | 150 | 150 | 1178 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Hole Traps in Silicon Dioxidesâ€"Part I: Properties. IEEE Transactions on Electron Devices, 2004, 51, 1267-1273. | 3.0 | 126 |
| 2 | Positive bias temperature instability in MOSFETs. IEEE Transactions on Electron Devices, 1998, 45, 116-124. | 3.0 | 70 |
| 3 | Hole trapping and trap generation in the gate silicon dioxide. IEEE Transactions on Electron Devices, 2001, 48, 1127-1135. | 3.0 | 63 |
| 4 | Two-Pulse \$C\$–\$V\$: A New Method for Characterizing Electron Traps in the Bulk of \$ hbox{SiO}_{2}/hbox{high-}kappa\$ Dielectric Stacks. IEEE Electron Device Letters, 2008, 29, 1043-1046. | 3.9 | 55 |
| 5 | NBTI Lifetime Prediction and Kinetics at Operation Bias Based on Ultrafast Pulse Measurement. IEEE Transactions on Electron Devices, 2010, 57, 228-237. | 3.0 | 55 |
| 6 | Energy Distribution of Positive Charges in Gate Dielectric: Probing Technique and Impacts of Different Defects. IEEE Transactions on Electron Devices, 2013, 60, 1745-1753. | 3.0 | 50 |
| 7 | A Single Pulse Charge Pumping Technique for Fast Measurements of Interface States. IEEE Transactions on Electron Devices, 2011, 58, 1490-1498. | 3.0 | 48 |
| 8 | Stress-Induced Positive Charge in Hf-Based Gate Dielectrics: Impact on Device Performance and a Framework for the Defect. IEEE Transactions on Electron Devices, 2008, 55, 1647-1656. | 3.0 | 44 |
| 9 | An Investigation on Border Traps in Ill–V MOSFETs With an In _{0.53} Ga _{0.47} As Channel. IEEE Transactions on Electron Devices, 2015, 62, 3633-3639. | 3.0 | 44 |
| 10 | An Analysis of the NBTI-Induced Threshold Voltage Shift Evaluated by Different Techniques. IEEE Transactions on Electron Devices, 2009, 56, 1086-1093. | 3.0 | 42 |
| 11 | Determination of capture cross sections for as-grown electron traps in HfO2â^•HfSiO stacks. Journal of Applied Physics, 2006, 100, 093716. | 2.5 | 41 |
| 12 | Defects and instabilities in Hf-dielectric/SiON stacks (Invited Paper). Microelectronic Engineering, 2009, 86, 1883-1887. | 2.4 | 39 |
| 13 | Impact of RTN on Pattern Recognition Accuracy of RRAM-Based Synaptic Neural Network. IEEE Electron Device Letters, 2018, 39, 1652-1655. | 3.9 | 38 |
| 14 | Hole-Traps in Silicon Dioxidesâ€"Part II: Generation Mechanism. IEEE Transactions on Electron Devices, 2004, 51, 1274-1280. | 3.0 | 36 |
| 15 | Effects of Measurement Temperature on NBTI. IEEE Electron Device Letters, 2007, 28, 298-300. | 3.9 | 36 |
| 16 | An Assessment of the Location of As-Grown Electron Traps in hboxHfO_2\$/HfSiO Stacks. IEEE Electron Device Letters, 2006, 27, 817-820. | 3.9 | 35 |
| 17 | Reliable Time Exponents for Long Term Prediction of Negative Bias Temperature Instability by Extrapolation. IEEE Transactions on Electron Devices, 2017, 64, 1467-1473. | 3.0 | 35 |
| 18 | Dominant Layer for Stress-Induced Positive Charges in Hf-Based Gate Stacks. IEEE Electron Device Letters, 2008, 29, 1360-1363. | 3.9 | 34 |

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| 19 | New Analysis Method for Time-Dependent Device-To-Device Variation Accounting for Within-Device Fluctuation. IEEE Transactions on Electron Devices, 2013, 60, 2505-2511. | 3.0 | 34 |
| 20 | Two types of neutral electron traps generated in the gate silicon dioxide. IEEE Transactions on Electron Devices, 2002, 49, 1868-1875. | 3.0 | 33 |
| 21 | Properties and dynamic behavior of electron traps in HfO2/SiO2 stacks. Microelectronic Engineering, 2005, 80, 366-369. | 2.4 | 33 |
| 22 | Energy and Spatial Distributions of Electron Traps Throughout $\frac{50}{42}$ Stacks as the IPD in Flash Memory Application. IEEE Transactions on Electron Devices, 2010, 57, 288-296. | 3.0 | 33 |
| 23 | Assessment of capture cross sections and effective density of electron traps generated in silicon dioxides. IEEE Transactions on Electron Devices, 2006, 53, 1347-1354. | 3.0 | 30 |
| 24 | Effects of hydrogen on positive charges in gate oxides. Journal of Applied Physics, 2005, 97, 073703. | 2.5 | 29 |
| 25 | Time-dependent variability in RRAM-based analog neuromorphic system for pattern recognition. , 2017, , | | 29 |
| 26 | On positive charge formed under negative bias temperature stress. Journal of Applied Physics, 2007, 101, 024516. | 2.5 | 28 |
| 27 | Defect Loss: A New Concept for Reliability of MOSFETs. IEEE Electron Device Letters, 2012, 33, 480-482. | 3.9 | 28 |
| 28 | Insight Into Electron Traps and Their Energy Distribution Under Positive Bias Temperature Stress and Hot Carrier Aging. IEEE Transactions on Electron Devices, 2016, 63, 3642-3648. | 3.0 | 28 |
| 29 | Degradation of oxides and oxynitrides under hot hole stress. IEEE Transactions on Electron Devices, 2000, 47, 378-386. | 3.0 | 26 |
| 30 | As-grown-generation (AG) model of NBTI: A shift from fitting test data to prediction. Microelectronics Reliability, 2018, 80, 109-123. | 1.7 | 25 |
| 31 | Development of a Technique for Characterizing Bias Temperature Instability-Induced Device-to-Device Variation at SRAM-Relevant Conditions. IEEE Transactions on Electron Devices, 2014, 61, 3081-3089. | 3.0 | 24 |
| 32 | A New Multipulse Technique for Probing Electron Trap Energy Distribution in High-\$kappa\$ Materials for Flash Memory Application. IEEE Transactions on Electron Devices, 2010, 57, 2484-2492. | 3.0 | 23 |
| 33 | NBTI degradation effect on advanced-process 45nm high-k PMOSFETs with geometric and process variations. Microelectronics Reliability, 2010, 50, 1283-1289. | 1.7 | 23 |
| 34 | NBTI-Generated Defects in Nanoscaled Devices: Fast Characterization Methodology and Modeling. IEEE Transactions on Electron Devices, 2017, 64, 4011-4017. | 3.0 | 23 |
| 35 | Dependence of Switching Probability on Operation Conditions in Ge _x Se _{1–x} Ovonic Threshold Switching Selectors. IEEE Electron Device Letters, 2019, 40, 1269-1272. | 3.9 | 23 |
| 36 | Key Issues and Solutions for Characterizing Hot Carrier Aging of Nanometer Scale nMOSFETs. IEEE Transactions on Electron Devices, 2017, 64, 2478-2484. | 3.0 | 22 |

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| 37 | A low-power and high-speed True Random Number Generator using generated RTN. , 2018, , . | | 22 |
| 38 | As-grown-Generation Model for Positive Bias Temperature Instability. IEEE Transactions on Electron Devices, 2018, 65, 3662-3668. | 3.0 | 22 |
| 39 | Analysis of the kinetics for interface state generation following hole injection. Journal of Applied Physics, 2003, 93, 6107-6116. | 2.5 | 21 |
| 40 | Interface quality of SiGe oxide prepared by RF plasma anodisation. Electronics Letters, 1994, 30, 1988-1989. | 1.0 | 21 |
| 41 | Relation between hole traps and hydrogenous species in silicon dioxides. Solid-State Electronics, 2002, 46, 1839-1847. | 1.4 | 20 |
| 42 | RTN-based defect tracking technique: Experimentally probing the spatial and energy profile of the critical filament region and its correlation with HfO <inf>2</inf> RRAM switching operation and failure mechanism. , 2016, , . | | 20 |
| 43 | Electrical signature of the defect associated with gate oxide breakdown. IEEE Electron Device Letters, 2006, 27, 393-395. | 3.9 | 19 |
| 44 | Assessment of plasma-grown oxides on Si:Ge substrates. Applied Surface Science, 1989, 39, 57-64. | 6.1 | 18 |
| 45 | Effects of high field injection on the hot carrier induced degradation of submicrometer pMOSFET's. IEEE Transactions on Electron Devices, 1995, 42, 1269-1276. | 3.0 | 18 |
| 46 | The Over-Reset Phenomenon in Ta ₂ O ₅ RRAM Device Investigated by the RTN-Based Defect Probing Technique. IEEE Electron Device Letters, 2018, 39, 955-958. | 3.9 | 18 |
| 47 | Impact of gate materials on positive charge formation in HfO2â^•SiO2 stacks. Applied Physics Letters, 2006, 89, 023507. | 3.3 | 17 |
| 48 | New Insights Into Defect Loss, Slowdown, and Device Lifetime Enhancement. IEEE Transactions on Electron Devices, 2013, 60, 413-419. | 3.0 | 17 |
| 49 | GeSe-Based Ovonic Threshold Switching Volatile True Random Number Generator. IEEE Electron Device Letters, 2020, 41, 228-231. | 3.9 | 17 |
| 50 | Energy Distribution of Positive Charges in <formula formulatype="inline"> <tex Notation="TeX">\${m Al}_{2}{m O}_{3}{m GeO}_{2}/{m Ge}\$</tex></formula> pMOSFETs. IEEE Electron Device Letters, 2014, 35, $160-162$. | 3.9 | 16 |
| 51 | Dynamic behavior of high-pressure arcs near the flow stagnation point. IEEE Transactions on Plasma Science, 1989, 17, 524-533. | 1.3 | 15 |
| 52 | Positive Bias-Induced $V_{m th}$ Instability in Graphene Field Effect Transistors. IEEE Electron Device Letters, 2012, 33, 339-341. | 3.9 | 15 |
| 53 | Understanding charge traps for optimizing Si-passivated Ge nMOSFETs. , 2016, , . | | 15 |
| 54 | Exploring the Impact of Random Telegraph Noise-Induced Accuracy Loss on Resistive RAM-Based Deep Neural Network. IEEE Transactions on Electron Devices, 2020, 67, 3335-3340. | 3.0 | 15 |

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| 55 | Electron Trapping in HfAlO High-\$kappa\$ Stack for Flash Memory Applications: An Origin of \$V_{m th}\$ Window Closure During Cycling Operations. IEEE Transactions on Electron Devices, 2011, 58, 1344-1351. | 3.0 | 14 |
| 56 | Characterization of Electron Traps in Si-Capped Ge MOSFETs With \$hbox{HfO}_{2}/hbox{SiO}_{2}\$ Gate Stack. IEEE Electron Device Letters, 2012, 33, 1681-1683. | 3.9 | 14 |
| 57 | Observation of the Ambient Effect in BTI Characteristics of Back-Gated Single Layer Graphene Field Effect Transistors. IEEE Transactions on Electron Devices, 2013, 60, 2682-2686. | 3.0 | 14 |
| 58 | A test-proven As-grown-Generation (A-G) model for predicting NBTI under use-bias. , 2015, , . | | 14 |
| 59 | Hole trap generation in gate dielectric during substrate hole injection. Semiconductor Science and Technology, 2004, 19, L1-L3. | 2.0 | 13 |
| 60 | Threshold voltage instability of p-channel metal-oxide-semiconductor field effect transistors with hafnium based dielectrics. Applied Physics Letters, 2007, 90, 143502. | 3.3 | 13 |
| 61 | Reliability nano-characterization of thin SiO2 and HfSixOy/SiO2 gate stacks. Microelectronic Engineering, 2007, 84, 2290-2293. | 2.4 | 13 |
| 62 | \$V_{m th}\$ Shift in Single-Layer Graphene Field-Effect Transistors and Its Correlation With Raman Inspection. IEEE Transactions on Device and Materials Reliability, 2012, 12, 478-481. | 2.0 | 13 |
| 63 | Time-dependent variation: A new defect-based prediction methodology. , 2014, , . | | 13 |
| 64 | Investigation of Preexisting and Generated Defects in Nonfilamentary a-Si/TiO ₂ RRAM and Their Impacts on RTN Amplitude Distribution. IEEE Transactions on Electron Devices, 2018, 65, 970-977. | 3.0 | 13 |
| 65 | Impact of process conditions on interface and high-l̂º trap density studied by variable Tcharge-Tdischarge charge pumping (VT2CP). Microelectronic Engineering, 2007, 84, 1951-1955. | 2.4 | 12 |
| 66 | A New Mobility Extraction Technique Based on Simultaneous Ultrafast \$I_{d}\$–\$V_{g}\$ and \$C_{m cg}\$–\$V_{g}\$ Measurements in MOSFETs. IEEE Transactions on Electron Devices, 2012, 59, 1906-1914. | 3.0 | 12 |
| 67 | Trigger-When-Charged: A Technique for Directly Measuring RTN and BTI-Induced Threshold Voltage Fluctuation Under Use- <inline-formula> <tex-math notation="LaTeX">\${V}_{dd}\$ </tex-math> </inline-formula> . IEEE Transactions on Electron Devices, 2019, 66, 1482-1488. | 3.0 | 12 |
| 68 | Random-telegraph-noise-enabled true random number generator for hardware security. Scientific Reports, 2020, 10, 17210. | 3.3 | 12 |
| 69 | An Assessment of the Statistical Distribution of Random Telegraph Noise Time Constants. IEEE Access, 2020, 8, 182273-182282. | 4.2 | 12 |
| 70 | Interface state behaviour of plasma grown oxides following low temperature annealing. Applied Surface Science, 1989, 39, 374-380. | 6.1 | 11 |
| 71 | Donor-like interface trap generation in pMOSFET's at room temperature. IEEE Transactions on Electron Devices, 1994, 41, 740-744. | 3.0 | 11 |
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| 73 | Probing the Critical Region of Conductive Filament in Nanoscale HfO ₂ Resistive-Switching Device by Random Telegraph Signals. IEEE Transactions on Electron Devices, 2017, 64, 4099-4105. | 3.0 | 11 |
| 74 | Low-temperature gate dielectrics formed by plasma anodisation of silicon nitride. Electronics Letters, 1988, 24, 1269. | 1.0 | 11 |
| 75 | Reliability degradation of thin HfO2/SiO2 gate stacks by remote RF hydrogen and deuterium plasma treatment. Thin Solid Films, 2008, 517, 207-208. | 1.8 | 10 |
| 76 | Investigation of Abnormal $V_{m TH}/V_{m FB}$ Shifts Under Operating Conditions in Flash Memory Cells With \$ hbox{Al}_{2}hbox{O}_{3}\$ High-\$kappa\$ Gate Stacks. IEEE Transactions on Electron Devices, 2012, 59, 1870-1877. | 3.0 | 10 |
| 77 | TDDB Mechanism in a-Si/TiO ₂ Nonfilamentary RRAM Device. IEEE Transactions on Electron Devices, 2019, 66, 777-784. | 3.0 | 10 |
| 78 | Cycling Induced Metastable Degradation in GeSe Ovonic Threshold Switching Selector. IEEE Electron Device Letters, 2021, 42, 1448-1451. | 3.9 | 10 |
| 79 | Impact of different defects on the kinetics of negative bias temperature instability of hafnium stacks. Applied Physics Letters, 2008, 92, 013501. | 3.3 | 9 |
| 80 | An assessment of the mobility degradation induced by remote charge scattering. Applied Physics Letters, 2009, 95, 263502. | 3.3 | 9 |
| 81 | Characterization of Negative-Bias Temperature Instability of Ge MOSFETs With <inline-formula> <tex-math notation="TeX">\${m GeO}_{2}/{m Al}_{2}{m O}_{3}\$ </tex-math></inline-formula> Stack. IEEE Transactions on Electron Devices, 2014, 61, 1307-1315. | 3.0 | 9 |
| 82 | A Comparative Study of Defect Energy Distribution and Its Impact on Degradation Kinetics in GeO2/Ge and SiON/Si pMOSFETs. IEEE Transactions on Electron Devices, 2016, 63, 3830-3836. | 3.0 | 9 |
| 83 | A Dual-Point Technique for the Entire I _D –V _G Characterization Into Subthreshold Region Under Random Telegraph Noise Condition. IEEE Electron Device Letters, 2019, 40, 674-677. | 3.9 | 9 |
| 84 | On the Accuracy in Modeling the Statistical Distribution of Random Telegraph Noise Amplitude. IEEE Access, 2021, 9, 43551-43561. | 4.2 | 9 |
| 85 | On the mechanism of electron trap generation in gate oxides. Microelectronic Engineering, 2001, 59, 89-94. | 2.4 | 8 |
| 86 | Process-induced positive charges in Hf-based gate stacks. Journal of Applied Physics, 2008, 103, 014507. | 2.5 | 8 |
| 87 | A discharge-based multi-pulse technique (DMP) for probing electron trap energy distribution in high-k materials for Flash memory application. , 2009, , . | | 8 |
| 88 | New insights into the design for end-of-life variability of NBTI in scaled high-& $\#$ xO3BA;/metal-gate Technology for the nano-reliability era., 2014,,. | | 8 |
| 89 | Impact of Hot Carrier Aging on Random Telegraph Noise and Within a Device Fluctuation. IEEE Journal of the Electron Devices Society, 2016, 4, 15-21. | 2.1 | 8 |
| 90 | Interface States Beyond Band Gap and Their Impact on Charge Carrier Mobility in MOSFETs. IEEE Transactions on Electron Devices, 2012, 59, 783-790. | 3.0 | 7 |

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| 91 | Read and Pass Disturbance in the Programmed States of Floating Gate Flash Memory Cells With High- <formula formulatype="inline"><tex notation="TeX">\$kappa\$</tex></formula> Interpoly Gate Dielectric Stacks. IEEE Transactions on Electron Devices, 2013, 60, 2261-2267. | 3.0 | 7 |
| 92 | Bias Temperature Instability of MOSFETs: Physical Processes, Models, and Prediction. Electronics (Switzerland), 2022, 11, 1420. | 3.1 | 6 |
| 93 | On the hot hole induced post-stress interface trap generation in MOSFET's., 1996,,. | | 5 |
| 94 | Hydrogen induced positive charge in Hf-based dielectrics. Microelectronic Engineering, 2007, 84, 2354-2357. | 2.4 | 5 |
| 95 | A Discharge-Based Pulse Technique for Probing the Energy Distribution of Positive Charges in Gate Dielectric. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 221-226. | 1.7 | 5 |
| 96 | A Fast Extraction Method of Energy Distribution of Border Traps in AlGaN/GaN MIS-HEMT. IEEE Journal of the Electron Devices Society, 2020, 8, 905-910. | 2.1 | 5 |
| 97 | Impact of Relaxation on the Performance of GeSe True Random Number Generator Based on Ovonic Threshold Switching. IEEE Electron Device Letters, 2022, 43, 1061-1064. | 3.9 | 5 |
| 98 | Relation between hydrogen and the generation of interface state precursors. Microelectronic Engineering, 1999, 48, 135-138. | 2.4 | 4 |
| 99 | On the role of hydrogen in hole-induced electron trap creation. Semiconductor Science and Technology, 2004, 19, 1333-1338. | 2.0 | 4 |
| 100 | NBTI of Ge pMOSFETs: Understanding defects and enabling lifetime prediction. , 2014, , . | | 4 |
| 101 | Experimental Evidence Toward Understanding Charge Pumping Signals in 3-D Devices With Poly-Si Channel. IEEE Transactions on Electron Devices, 2014, 61, 1501-1507. | 3.0 | 4 |
| 102 | Energy distribution of positive charges in high-k dielectric. Microelectronics Reliability, 2014, 54, 2329-2333. | 1.7 | 4 |
| 103 | AC NBTI of Ge pMOSFETs: Impact of energy alternating defects on lifetime prediction. , 2015, , . | | 4 |
| 104 | True Random Number Generator (TRNG) for Secure Communications in the Era of IoT., 2020, , . | | 4 |
| 105 | The computation of self-similar arcs. Computer Physics Communications, 1987, 47, 267-280. | 7.5 | 3 |
| 106 | Plasma oxidation of Si and SiGe. Microelectronic Engineering, 1995, 28, 221-224. | 2.4 | 3 |
| 107 | Generation of mobile hydrogenous ions in gate oxide and their potential applications. Electronics Letters, 2001, 37, 716. | 1.0 | 3 |
| 108 | Real-time observation of charging dynamics in hafnium silicate films using MOS capacitance transients. Microelectronic Engineering, 2007, 84, 2390-2393. | 2.4 | 3 |

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| 109 | On the activation and passivation of precursors for process-induced positive charges in Hf-dielectric stacks. Journal of Applied Physics, 2009, 105, 054505. | 2.5 | 3 |
| 110 | Impact of PDA temperature on electron trap energy and spatial distributions in SiO2/Al2O3 stack as the IPD in Flash memory cells. Microelectronic Engineering, 2009, 86, 1834-1837. | 2.4 | 3 |
| 111 | RTN in GexSe1-x OTS selector devices. Microelectronic Engineering, 2019, 215, 110990. | 2.4 | 3 |
| 112 | Stochastic Computing Based on Volatile GeSe Ovonic Threshold Switching Selectors. IEEE Electron Device Letters, 2020, 41, 1496-1499. | 3.9 | 3 |
| 113 | Oxide Defects. , 2014, , 253-285. | | 3 |
| 114 | An Integral Methodology for Predicting Long-Term RTN. IEEE Transactions on Electron Devices, 2022, 69, 3869-3875. | 3.0 | 3 |
| 115 | Hydrogen induced and plasma charging enhanced positive charge generation in gate oxides. , 0, , . | | 2 |
| 116 | MOSFETs reliability: electron trapping in gate dielectric., 0, , . | | 2 |
| 117 | Dependence of energy distributions of interface states on stress conditions. Microelectronic Engineering, 2001, 59, 95-99. | 2.4 | 2 |
| 118 | Evaluation and Solutions for P/E Window Instability Induced by Electron Trapping in High- <inline-formula> <tex-math notation="TeX">\$kappa\$ </tex-math></inline-formula> Intergate Dielectrics of Flash Memory Cells. IEEE Transactions on Electron Devices, 2014, 61, 1299-1306. | 3.0 | 2 |
| 119 | Generation and annealing of hot hole induced interface states. Microelectronic Engineering, 1997, 36, 227-230. | 2.4 | 1 |
| 120 | Still image compression based on 2D discrete wavelet transform. Electronics Letters, 1999, 35, 1934. | 1.0 | 1 |
| 121 | Generation of hole traps in silicon dioxides. , 0, , . | | 1 |
| 122 | A review of positive charge formation in gate oxides. , 0, , . | | 1 |
| 123 | Abnormal V <inf>TH</inf> /V <inf>FB</inf> shift caused by as-grown mobile charges in Al <inf>2</inf> O <inf>3</inf> and its impacts on Flash memory cell operations., 2011,,. | | 1 |
| 124 | Development of a Fast Technique for Characterizing Interface States. ECS Transactions, 2011, 35, 81-93. | 0.5 | 1 |
| 125 | Towards understanding hole traps and NBTI of Ge/GeO2/Al2O3 structure. Microelectronic Engineering, 2013, 109, 43-45. | 2.4 | 1 |
| 126 | Optimization of inter-gate-dielectrics in hybrid float gate devices to reduce window instability during memory operations. Microelectronics Reliability, 2014, 54, 2258-2261. | 1.7 | 1 |

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| 128 | Understanding Generated RTN as an Entropy Source for True Random Number Generators., 2021,,. | | 1 |
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| 130 | A comparative study of positive and negative bias temperature instabilities in MOSFETs., 0,,. | | 0 |
| 131 | Relation between hole traps and non-reactive hydrogen-induced positive charges. Microelectronic Engineering, 2001, 59, 67-72. | 2.4 | 0 |
| 132 | Defect Losses under Different Processes, Stress, Recovery, and Anneal Conditions. ECS Transactions, 2013, 52, 929-934. | 0.5 | 0 |
| 133 | Time-dependent device-to-device variation accounting for within-device fluctuation (TVF): A new characterization technique. , 2014 , , . | | 0 |
| 134 | NBTI prediction and its induced time dependent variation. , 2015, , . | | 0 |
| 135 | Hot carrier aging of nano-meter devices. , 2016, , . | | 0 |
| 136 | Hot carrier aging of nano-scale devices: Characterization method, statistical variation, and their impact on use voltage. , 2017 , , . | | 0 |
| 137 | A framework for defects in PBTI and hot carrier ageing. , 2018, , . | | 0 |
| 138 | Predictive As-grown-generation model for NBTI of advanced CMOS devices and circuits. , 2018, , . | | 0 |
| 139 | An assessment of RTN-induced threshold voltage jitter. , 2019, , . | | 0 |
| 140 | Understanding lifetime prediction methodology for In0.53Ga0.47As nFETs under Positive Bias Temperature Instability (PBTI) condition. , 2019, , . | | 0 |
| 141 | A Comparative Study of AC Positive Bias Temperature Instability of Germanium nMOSFETs With GeOâ,,/Ge and Si-cap/Ge Gate Stack. IEEE Journal of the Electron Devices Society, 2021, 9, 539-544. | 2.1 | 0 |
| 142 | Microscopy of plasma anodised materials for VLSI. Proceedings Annual Meeting Electron Microscopy Society of America, 1990, 48, 632-633. | 0.0 | 0 |
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| 144 | Investigation on the Implementation of Stateful Minority Logic for Future In-Memory Computing. IEEE Access, 2021, 9, 168648-168655. | 4.2 | 0 |

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| 145 | Defect loss and its physical processes. , 2020, , . | | 0 |
| 146 | A Probability-Based Strong Physical Unclonable Function With Strong Machine Learning Immunity. IEEE Electron Device Letters, 2022, 43, 138-141. | 3.9 | 0 |
| 147 | A comparative study of positive and negative bias temperature instabilities in MOSFETs., 0,,. | | 0 |
| 148 | Realization of NOR logic using Cu/ZnO/Pt CBRAM. , 2022, , . | | 0 |
| 149 | Realization of Logical NOT Based on Standard DRAM Cells for security-centric Compute-in-Memory applications. , 2022, , . | | O |