

Taizhi Liu

List of Publications by Year in descending order

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papers

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times ranked

115
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Framework for Analysis of Time-Dependent Performance-Reliability Degradation of SRAM Cache Memory. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 857-870.	3.1	3
2	Inverse Design of FinFET SRAM Cells. , 2020, , .		1
3	SRAM Stability Analysis and Performance-Reliability Tradeoff for Different Cache Configurations. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 620-633.	3.1	7
4	Impact of front-end wearout mechanisms on FinFET SRAM soft error rate. Microelectronics Reliability, 2019, 100-101, 113487.	1.7	5
5	A library based on deep neural networks for modeling the degradation of FinFET SRAM performance metrics due to aging. Microelectronics Reliability, 2019, 100-101, 113486.	1.7	2
6	Impact of Front-End Wearout Mechanisms on the Performance of a Ring Oscillator-Based Thermal Sensor. , 2019, , .		3
7	Comprehensive Reliability-Aware Statistical Timing Analysis Using a Unified Gate-Delay Model for Microprocessors. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 219-232.	4.6	15
8	New Electromigration Model and Its Potential Application on Degradation Simulation for FinFET SRAM. , 2018, , .		0
9	Estimation of the Optimal Accelerated Test Region for FinFET SRAMs Degraded by Front-End and Back-End Wearout Mechanisms. , 2018, , .		3
10	Optimal Accelerated Test Regions for Time-Dependent Dielectric Breakdown Lifetime Parameters Estimation in FinFET Technology. , 2018, , .		2
11	A Comprehensive Time-Dependent Dielectric Breakdown Lifetime Simulator for Both Traditional CMOS and FinFET Technology. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2470-2482.	3.1	14
12	Circuit-level reliability simulator for front-end-of-line and middle-of-line time-dependent dielectric breakdown in FinFET technology. , 2018, , .		6
13	Negative Bias Temperature Instability and Gate Oxide Breakdown Modeling in Circuits With Die-to-Die Calibration Through Power Supply and Ground Signal Measurements. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 2271-2284.	3.1	6
14	Front-end of line and middle-of-line time-dependent dielectric breakdown reliability simulator for logic circuits. Microelectronics Reliability, 2017, 76-77, 81-86.	1.7	9
15	Analysis of time-dependent dielectric breakdown induced aging of SRAM cache with different configurations. Microelectronics Reliability, 2017, 76-77, 87-91.	1.7	7
16	Modeling for SRAM reliability degradation due to gate oxide breakdown with a compact current model. , 2017, , .		5
17	A lifetime and power sensitive design optimization framework for a radio frequency circuit. , 2017, , .		3
18	Modeling of the reliability degradation of a FinFET-based SRAM due to bias temperature instability, hot carrier injection, and gate oxide breakdown. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
19	Design for reliability: A duty-cycle management system for timing violations. , 2016, , .		1
20	SRAM stability analysis for different cache configurations due to Bias Temperature Instability and Hot Carrier Injection. , 2016, , .		18
21	System-Level Modeling of Microprocessor Reliability Degradation Due to Bias Temperature Instability and Hot Carrier Injection. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 2712-2725.	3.1	17
22	Comprehensive reliability and aging analysis on SRAMs within microprocessor systems. Microelectronics Reliability, 2015, 55, 1290-1296.	1.7	15
23	Accurate standard cell characterization and statistical timing analysis using multivariate adaptive regression splines. , 2015, , .		10
24	System-level variation-aware aging simulator using a unified novel gate-delay model for bias temperature instability, hot carrier injection, and gate oxide breakdown. Microelectronics Reliability, 2015, 55, 1334-1340.	1.7	25
25	System-level modeling of microprocessor reliability degradation due to BTI and HCI. , 2014, , .		21
26	Extraction of threshold voltage degradation modeling due to Negative Bias Temperature Instability in circuits with I/O measurements. , 2014, , .		7