

Zipeng Li

List of Publications by Year in descending order

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papers

508
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123
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#	ARTICLE	IF	CITATIONS
1	High-level synthesis for micro-electrode-dot-array digital microfluidic biochips. , 2016, , .		52
2	Droplet Size-Aware High-Level Synthesis for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 612-626.	2.7	50
3	Micro-Electrode-Dot-Array Digital Microfluidic Biochips: Technology, Design Automation, and Test Techniques. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 292-313.	2.7	38
4	Exact routing for micro-electrode-dot-array digital microfluidic biochips. , 2017, , .		35
5	Error recovery in a micro-electrode-dot-array digital microfluidic biochip?. , 2016, , .		33
6	Efficient and Adaptive Error Recovery in a Micro-Electrode-Dot-Array Digital Microfluidic Biochip. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 601-614.	1.9	30
7	Reliability-Driven Pipelined Scan-Like Testing of Digital Microfluidic Biochips. , 2014, , .		24
8	Experimental demonstration of error recovery in an integrated cyberphysical digital-microfluidic platform. , 2015, , .		24
9	Adaptive and Roll-Forward Error Recovery in MEDA Biochips Based on Droplet-Aliquot Operations and Predictive Analysis. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 577-592.	2.5	24
10	Advances in Design Automation Techniques for Digital-Microfluidic Biochips. , 2015, , 190-223.		23
11	Piracy prevention of digital microfluidic biochips. , 2017, , .		23
12	Adaptive error recovery in MEDA biochips based on droplet-aliquot operations and predictive analysis. , 2017, , .		22
13	Built-in self-test for micro-electrode-dot-array digital microfluidic biochips. , 2016, , .		21
14	Synthesis of Error-Recovery Protocols for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. Transactions on Embedded Computing Systems, 2017, 16, 1-22.	2.1	21
15	Structural and Functional Test Methods for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 968-981.	1.9	21
16	Droplet Size-Aware and Error-Correcting Sample Preparation Using Micro-Electrode-Dot-Array Digital Microfluidic Biochips. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1380-1391.	2.7	20
17	Test-cost optimization in a scan-compression architecture using support-vector regression. , 2017, , .		13
18	Sample Preparation on Micro-Electrode-Dot-Array Digital Microfluidic Biochips. , 2017, , .		13

#	ARTICLE	IF	CITATIONS
19	Module Placement under Completion-Time Uncertainty in Micro-Electrode-Dot-Array Digital Microfluidic Biochips. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 811-821.	2.5	11
20	Prebond Testing and Test-Path Design for the Silicon Interposer in 2.5-D ICs. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1406-1419.	1.9	5
21	Optimization of heaters in a digital microfluidic biochip for the polymerase chain reaction. , 2014, , .		3