

Tung-Che Liang

List of Publications by Year in descending order

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16
papers

131
citations

1683354

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58
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#	ARTICLE	IF	CITATIONS
1	Sample preparation for many-reactant bioassay on DMFBs using common dilution operation sharing. , 2013, , .		28
2	Execution of provably secure assays on MEDA biochips to thwart attacks. , 2019, , .		17
3	Sample preparation for multiple-reactant bioassays on micro-electrode-dot-array biochips. , 2019, , .		11
4	Multitarget Sample Preparation Using MEDA Biochips. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2682-2695.	1.9	11
5	Adaptive Droplet Routing for MEDA Biochips via Deep Reinforcement Learning. , 2022, , .		9
6	Programmable Daisychaining of Microelectrodes to Secure Bioassay IP in MEDA Biochips. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1269-1282.	2.1	8
7	Shadow attacks on MEDA biochips. , 2018, , .		7
8	Secure Assay Execution on MEDA Biochips to Thwart Attacks Using Real-Time Sensing. ACM Transactions on Design Automation of Electronic Systems, 2020, 25, 1-25.	1.9	7
9	Molecular Barcoding as a Defense Against Benchtop Biochemical Attacks on DNA Fingerprinting and Information Forensics. IEEE Transactions on Information Forensics and Security, 2020, 15, 3595-3609.	4.5	7
10	Enhancing the Reliability of MEDA Biochips Using IJTAG and Wear Leveling. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 2063-2076.	1.9	5
11	Toward Secure Checkpointing for Micro-Electrode-Dot-Array Biochips. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4908-4920.	1.9	5
12	Programmable Daisychaining of Microelectrodes for IP Protection in MEDA Biochips. , 2019, , .		4
13	Extending the Lifetime of MEDA Biochips by Selective Sensing on Microelectrodes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3531-3543.	1.9	4
14	Reliability-Oriented IEEE Std. 1687 Network Design and Block-Aware High-Level Synthesis for MEDA Biochips*. , 2020, , .		4
15	Formal Synthesis of Adaptive Droplet Routing for MEDA Biochips. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 2504-2517.	1.9	4
16	Microfluidic Device Security. , 2021, , 555-577.		0