

# CITATION REPORT

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An open-source compiler and PCB synthesis tool for digital microfluidic biochips

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The Integration VLSI Journal, 2015, 51, 169-193.

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#	Paper	IF	Citations
47	Harnessing QbD, Programming Languages, and Automation for Reproducible Biology. <i>Trends in Biotechnology</i> , <b>2016</b> , 34, 214-227	15.1	31
46	PCB Escape Routing and Layer Minimization for Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 69-82	2.5	9
45	Organoelement Coatings on Glass as Precursors for Biochip Technologies. <i>Macromolecular Symposia</i> , <b>2017</b> , 375, 1700025	0.8	1
44	A correct-by-construction design and programming approach for open paper-based digital microfluidics. <b>2017</b> ,		1
43	A compiler for cyber-physical digital microfluidic biochips. <b>2018</b> ,		7
42	Resource-Constrained Scheduling for Digital Microfluidic Biochips. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2018</b> , 14, 1-26	1.7	6
41	Feedback control system for large scale 2D digital microfluidic platforms. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 3616-3622	8.5	14
40	Tamper-resistant pin-constrained digital microfluidic biochips. <b>2018</b> ,		3
39	Shadow attacks on MEDA biochips. <b>2018</b> ,		7
38	. <b>2018</b> ,		1
37	Tamper-Resistant Pin-Constrained Digital Microfluidic Biochips. <b>2018</b> ,		
36	Stationary-Mixing Field-Programmable Pin-Constrained Digital Microfluidic Biochip. <i>Microelectronics Journal</i> , <b>2018</b> , 77, 34-48	1.8	2
35	Locking of biochemical assays for digital microfluidic biochips. <b>2018</b> ,		23
34	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 589-603	2.5	16
33	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1831-1843	2.5	9
32	Randomized Checkpoints: A Practical Defense for Cyber-Physical Microfluidic Systems. <i>IEEE Design and Test</i> , <b>2019</b> , 36, 5-13	1.4	10
31	Beyond high voltage in the digital microfluidic devices for an integrated portable sensing system. <i>Microfluidics and Nanofluidics</i> , <b>2019</b> , 23, 1	2.8	7

30	Machine Learning with Digital Microfluidics for Drug Discovery and Development. <b>2019</b> ,		0
29	Drug Discovery Applications: A Customized Digital Microfluidic Biochip Architecture/CAD Flow. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 13, 25-34	1.7	0
28	Deadlock Detection in Digital Microfluidics Biochip Droplet Routing. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 242-253	0.3	
27	Puddle. <b>2019</b> ,		10
26	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2019</b> , 14, 2901-2915	8	13
25	ABC-GNX: A Hybrid Algorithm for Scheduling of Digital Microfluidic Biochip Operations. <b>2019</b> ,		1
24	Checkpoints Assignment on Cyber-Physical Digital Microfluidic Biochips for Early Detection of Hardware Trojans. <b>2019</b> ,		5
23	Micro-Electrode-Dot-Array Digital Microfluidic Biochips: Technology, Design Automation, and Test Techniques. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2019</b> , 13, 292-313	5.1	19
22	Synthesis of Tamper-Resistant Pin-Constrained Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 171-184	2.5	4
21	Cyberphysical Microfluidic Biochips. <b>2020</b> , 1-17		2
20	Biolabs as Computing Components. <b>2020</b> , 263-282		
19	Bio-chemical Assay Locking to Thwart Bio-IP Theft. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2020</b> , 25, 1-20	1.5	5
18	An asymmetric electrode for directional droplet motion on digital microfluidic platforms. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 324, 128763	8.5	2
17	Field-level Digital Microfluidic Biochips Trojan detection based on Hamming distance. <b>2020</b> ,		
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15	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 143-156	2.5	5
14	Invasive weed optimization based scheduling for digital microfluidic biochip operations. <i>The Integration VLSI Journal</i> , <b>2021</b> , 76, 122-134	1.4	3
13	A hybrid artificial bee colony algorithm for scheduling of digital microfluidic biochip operations. <i>Concurrency Computation Practice and Experience</i> , <b>2021</b> , 33, e6223	1.4	0

12	Efficient One-pass Synthesis for Digital Microfluidic Biochips. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2021</b> , 26, 1-21	1.5	
11	Self-Organized Implanting of Micro/Nanofiltration Membranes in Advanced Flow Reactors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19430-19442	9.5	
10	Security model for protecting intellectual property of state-of-the-art microfluidic biochips. <i>Journal of Information Security and Applications</i> , <b>2021</b> , 58, 102773	3.5	1
9	Error-Correcting Sample Preparation with Cyberphysical Digital Microfluidic Lab-on-Chip. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2016</b> , 22, 1-29	1.5	29
8	A performance-optimizing compiler for cyber-physical digital microfluidic biochips. <b>2020</b> ,		1
7	Electrochemical applications of printed circuit boards: Electrocatalysis and internal reference electrodes. <i>Electrochemistry Communications</i> , <b>2021</b> , 132, 107141	5.1	
6	Introduction. <b>2019</b> , 1-20		
5	Prevention: Tamper-Resistant Pin-Constrained Digital Microfluidic Biochips. <b>2020</b> , 51-77		
4	Security and Trust. <b>2020</b> , 19-49		
3	BiowareCFP: An Application-Agnostic Modular Reconfigurable Cyber-Fluidic Platform.. <i>Micromachines</i> , <b>2022</b> , 13,	3.3	
2	Architecture for Security. <b>2022</b> , 19-32		
1	Asymmetric electrodes for droplet directional actuation by a square wave on an open surface. <b>2023</b> , 48, 106401		0