Christopher Batten

List of Publications by Citations

16 papers	226 citations	8 h-index	15 g-index
21 ext. papers	336 ext. citations	2.3 avg, IF	3.05 L-index

#	Paper	IF	Citations
16	Designing Chip-Level Nanophotonic Interconnection Networks. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2012**, 2, 137-153	5.2	41
15	PyMTL: A Unified Framework for Vertically Integrated Computer Architecture Research **2014**,		36
14	The Celerity Open-Source 511-Core RISC-V Tiered Accelerator Fabric: Fast Architectures and Design Methodologies for Fast Chips. *IEEE Micro*, **2018**, 38, 30-41	1.8	34
13	Enabling Realistic Fine-Grain Voltage Scaling with Reconfigurable Power Distribution Networks **2014**,		31
12	Accelerating Irregular Algorithms on GPGPUs Using Fine-Grain Hardware Worklists **2014**,		25
11	Architectural Specialization for Inter-Iteration Loop Dependence Patterns **2014**,		17
10	Asymmetry-Aware Work-Stealing Runtimes **2016**,		10
9	A 1.4 GHz 695 Giga Risc-V Inst/s 496-Core Manycore Processor With Mesh On-Chip Network and an All-Digital Synthesized PLL in 16nm CMOS **2019**,		8
8	PyMTL3: A Python Framework for Open-Source Hardware Modeling, Generation, Simulation, and Verification. *IEEE Micro*, **2020**, 40, 58-66	1.8	6
7	Four Monolithically Integrated Switched-Capacitor DCDC Converters With Dynamic Capacitance Sharing in 65-nm CMOS. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2018**, 65, 2035-2047	3.9	6
6	Evaluating Celerity: A 16-nm 695 Giga-RISC-V Instructions/s Manycore Processor With Synthesizable PLL. *IEEE Solid-State Circuits Letters*, **2019**, 2, 289-292	2	5
5	Mamba: Closing the Performance Gap in Productive Hardware Development Frameworks **2018**,		4
4	PyOCN: A Unified Framework for Modeling, Testing, and Evaluating On-Chip Networks **2019**,		3
3	Cross-layer workload characterization of meta-tracing JIT VMs **2017**,		0
2	PyH2: Using PyMTL3 to Create Productive and Open-Source Hardware Testing Methodologies. *IEEE Design and Test*, **2021**, 38, 53-61	1.4	0
1	. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2021**, 1-1	2.5	0