

Howard Wang

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

753
citations

1163117

8
h-index

1199594

12
g-index

24
all docs

24
docs citations

24
times ranked

780
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical 4x4 hitless silicon router for optical networks-on-chip (NoC). Optics Express, 2008, 16, 15915.	3.4	355
2	The Data Vortex Optical Packet Switched Interconnection Network. Journal of Lightwave Technology, 2008, 26, 1777-1789.	4.6	102
3	Low-power, transparent optical network interface for high bandwidth off-chip interconnects. Optics Express, 2009, 17, 6550.	3.4	78
4	Rethinking the physical layer of data center networks of the next decade. Computer Communication Review, 2013, 43, 52-58.	1.8	50
5	Optical multicast system for data center networks. Optics Express, 2015, 23, 22162.	3.4	37
6	Next-Generation Optically-Interconnected High-Performance Data Centers. Journal of Lightwave Technology, 2012, 30, 3836-3844.	4.6	31
7	Nanophotonic Optical Interconnection Network Architecture for On-Chip and Off-Chip Communications. , 2008, , .		25
8	Optical 4x4 hitless Silicon router for optical Networks-on-Chip (NoC): erratum. Optics Express, 2008, 16, 19395.	3.4	17
9	Real-Time Power Control for Dynamic Optical Networks Algorithms and Experimentation. IEEE Journal on Selected Areas in Communications, 2014, 32, 1615-1628.	14.0	12
10	Optically interconnected data center architecture for bandwidth intensive energy efficient networking. , 2012, , .		9
11	Experimental Demonstration of a Complete SPINet Optical Packet Switched Interconnection Network. , 2007, , .		6
12	Optically Interconnected High Performance Data Centers. Optical Networks Series, 2013, , 155-167.	1.1	5
13	Accelerating incast and multicast traffic delivery for data-intensive applications using physical layer optics. , 2014, , .		4
14	An All-Optical PCI-Express Network Interface for Optical Packet Switched Networks. , 2007, , .		3
15	Cross-Layer Communication With an Optical Packet Switched Network via a Message Injection Control Interface. IEEE Photonics Technology Letters, 2008, 20, 967-969.	2.5	3
16	Experimental demonstration of 10 gigabit ethernet-based optical interconnection network interface for large-scale computing systems. , 2011, , .		3
17	Experimental demonstration of wavelength-reconfigurable optical packet- and circuit-switched platform for data center networks. , 2012, , .		3
18	Real-time power control for dynamic optical networks - Algorithms and experimentation. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
19	Experimental Demonstration of Network Congestion Control with a Programmable Optical Packet Injection Buffer. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	2
20	Demonstration of End-to-End Bit-Parallel Memory Transactions Across the Ultra-Low Latency Data Vortex Optical Packet Switch. , 2010, , .		2
21	Transparent, Low Power Optical WDM Interface for Off-Chip Interconnects. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
22	Priority encoding scheme for contention resolution in optical packet-switched networks. , 2008, , .		1
23	Interface Optical Buffer and Packet-Switched Network Cross-Layer Signaling Demonstration. , 2008, , .		1
24	Accelerating incast and multicast traffic delivery for data-intensive applications using physical layer optics. Computer Communication Review, 2015, 44, 373-374.	1.8	0