## Keren Bergman

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

169 4,090 30 59 h-index g-index citations papers 5,085 5.64 3.2 212 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
169	Optically connected memory for disaggregated data centers. <i>Journal of Parallel and Distributed Computing</i> , <b>2022</b> , 163, 300-300	4.4	O
168	Fixed-Point Analysis and FPGA Implementation of Deep Neural Network Based Equalizers for High-Speed PON. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	0
167	FLEET <b>B</b> ast Lanes for Expedited Execution at 10 Terabits: Program Overview. <i>IEEE Internet Computing</i> , <b>2021</b> , 25, 79-87	2.4	3
166	Ultra-Broadband Interleaver for Extreme Wavelength Scaling in Silicon Photonic Links. <i>IEEE Photonics Technology Letters</i> , <b>2021</b> , 33, 55-58	2.2	5
165	SiP-ML <b>2021</b> ,		3
164	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 5386-5392	4	12
163	Error-free data transmission through fast broadband all-optical modulation in graphenelilicon optoelectronics. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 221106	3.4	2
162	Photonic Switched Optically Connected Memory: An Approach to Address Memory Challenges in Deep Learning. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 2815-2825	4	2
161	Silicon Photonics Codesign for Deep Learning. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 1261-1282	14.3	16
160	Silicon Photonic 2.5D Multi-Chip Module Transceiver for High-Performance Data Centers. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3346-3357	4	16
159	. IEEE Journal of Selected Topics in Quantum Electronics, <b>2020</b> , 26, 1-10	3.8	9
158	PINE: Photonic Integrated Networked Energy efficient datacenters (ENLITENED Program) [Invited]. Journal of Optical Communications and Networking, <b>2020</b> , 12, 443	4.1	6
157	Evolving Requirements and Trends of HPC. Springer Handbooks, 2020, 725-755	1.3	O
156	Ultra-Broadband Silicon Photonic Interleaver for Massive Channel Count Frequency Combs 2020,		2
155	Experimental Demonstration of PAM-4 Transmission through Microring Silicon Photonic Clos Switch Fabric <b>2020</b> ,		2
154	Push-pull microring-assisted space-and-wavelength selective switch. <i>Optics Letters</i> , <b>2020</b> , 45, 2696-269	93	5
153	FPGA Implementation of Deep Neural Network Based Equalizers for High-Speed PON 2020,		2

152	Optical interconnection networks for high-performance systems <b>2020</b> , 785-825		1
151	Multi-Stage 8 B Silicon Photonic Switch Based on Dual-Microring Switching Elements. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 194-201	4	12
150	Performance Requirements for Terabit-Class Silicon Photonic Links Based on Cascaded Microring Resonators. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3469-3477	4	8
149	Optically Connected Memory for Disaggregated Data Centers <b>2020</b> ,		4
148	Energy Efficiency Analysis of Comb Source Carrier-Injection Ring-Based Silicon Photonic Link. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-13	3.8	9
147	Energy Efficiency Analysis of Frequency Comb Sources for Silicon Photonic Interconnects <b>2019</b> ,		3
146	. Journal of Lightwave Technology, <b>2019</b> , 37, 3044-3054	4	29
145	Silicon Photonics for Extreme Scale Systems. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 245-259	4	42
144	Behavioral Model of Silicon Photonics Microring with Unequal Ring and Bus Widths 2019,		2
143	Scalable Microring-Based Silicon Clos Switch Fabric With Switch-and-Select Stages. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-11	3.8	28
142	Ultralow-crosstalk, strictly non-blocking microring-based optical switch. <i>Photonics Research</i> , <b>2019</b> , 7, 155	6	39
141	Dual-Microring Resonator Based 8B Silicon Photonic Switch 2019,		5
140	Ultra-low power consumption silicon photonic link design analysis in the AIM PDK 2019,		3
139	Silicon photonic switch-based optical equalization for mitigating pulsewidth distortion. <i>Optics Express</i> , <b>2019</b> , 27, 19426-19435	3.3	3
138	Bandwidth steering in HPC using silicon nanophotonics <b>2019</b> ,		11
137	Thermal Rectification of Integrated Microheaters for Microring Resonators in Silicon Photonics Platform. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 773-788	4	43
136	Design Space Exploration of Microring Resonators in Silicon Photonic Interconnects: Impact of the Ring Curvature. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 2767-2782	4	48
135	Photonic switching in high performance datacenters [Invited]. Optics Express, 2018, 26, 16022-16043	3.3	120

Microring-Based Si/SiN Dual-Layer Switch Fabric 2018, 134 1 Low-Power Optical Interconnects based on Resonant Silicon Photonic Devices 2018, 133 2 tSDX: Enabling Impairment-Aware All-Optical Inter-Domain Exchange. Journal of Lightwave 132 4 17 Technology, **2018**, 36, 142-154 Impact of Backscattering on Microring-Based Silicon Photonic Links 2018, 131 Wavelength Locking of Multicast Signals Using Photo-Conductive Effect in Silicon Photonic 130 2 Platform 2018. Tapless and topology agnostic calibration solution for silicon photonic switches. Optics Express, 8 129 3.3 2018, 26, 32662-32674 256/64-QAM Multicarrier Analog Radio-over-Fiber Modulation using a Linear Differential Drive 128 3 Silicon Mach-Zehnder Modulator 2018, Recent advances in optical technologies for data centers: a review. Optica, 2018, 5, 1354 8.6 180 127 Si/SiN Microring-Based Optical Router in Switch-and-Select Topology 2018, 126 4 WDM Source Based on High-Power, Efficient 1280-nm DFB Lasers for Terabit Interconnect 8 2.2 125 Technologies. IEEE Photonics Technology Letters, 2018, 30, 1929-1932 Optical interconnects for extreme scale computing systems. Parallel Computing, 2017, 64, 65-80 124 37 Modular architecture for fully non-blocking silicon photonic switch fabric. Microsystems and 123 7.7 Nanoengineering, **2017**, 3, 16071 Flexible Architecture and Autonomous Control Plane for Metro-Scale Geographically Distributed 122 4 7 Data Centers. Journal of Lightwave Technology, 2017, 35, 1188-1196 Energy-performance optimized design of silicon photonic interconnection networks for 121 16 high-performance computing 2017, Highly-scalable, low-crosstalk architecture for ring-based optical space switch fabrics 2017, 120 7 Smart Routing Tables for Integrated Photonic Switch Fabrics **2017**, 119 Automated Thermal Stabilization of Cascaded Silicon Photonic Ring Resonators for Reconfigurable 118 5 WDM Applications 2017, Quality of Transmission Prediction with Machine Learning for Dynamic Operation of Optical WDM 117 10 Networks 2017,

## (2015-2017)

116	Software-defined control-plane for wavelength selective unicast and multicast of optical data in a silicon photonic platform. <i>Optics Express</i> , <b>2017</b> , 25, 232-242	3.3	21
115	Design Space Exploration of the Dragonfly Topology. Lecture Notes in Computer Science, 2017, 57-74	0.9	3
114	Software-defined optical network for metro-scale geographically distributed data centers. <i>Optics Express</i> , <b>2016</b> , 24, 12310-20	3.3	20
113	End-to-End Modeling and Optimization of Power Consumption in HPC Interconnects 2016,		4
112	240 Gb/s mode and wavelength division multiplexed data transmission in Si photonics <b>2016</b> ,		1
111	Comprehensive Design Space Exploration of Silicon Photonic Interconnects. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 2975-2987	4	47
110	PhoenixSim <b>2016</b> ,		6
109	Programmable Dynamically-Controlled Silicon Photonic Switch Fabric. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 2952-2958	4	14
108	Ar+-Implanted Si-Waveguide Photodiodes for Mid-Infrared Detection. <i>Photonics</i> , <b>2016</b> , 3, 46	2.2	3
107	Crosstalk Penalty in Microring-Based Silicon Photonic Interconnect Systems. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 4043-4052	4	33
106	Energy-bandwidth design exploration of silicon photonic interconnects in 65nm CMOS 2016,		10
105	Loss and crosstalk of scalable MZI-based switch topologies in silicon photonic platform 2016,		3
104	A software-defined optical gateway for converged inter/intra data center networks 2015,		4
103	Optimization of microring-based filters for dense WDM silicon photonic interconnects <b>2015</b> ,		14
102	Scaling silicon photonic switch fabrics for data center interconnection networks. <i>Optics Express</i> , <b>2015</b> , 23, 1159-75	3.3	86
101	Single Microring-Based \$2times 2\$ Silicon Photonic Crossbar Switches. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 1981-1984	2.2	27
100	High-Speed BPSK Modulation in Silicon. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 1329-1332	2.2	6
99	Silicon Photonics for Exascale Systems. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 547-562	4	85

98	High-Efficiency Biwavelength Polarization Splitter-Rotator on the SOI Platform. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 518-521	2.2	19
97	Experimental demonstration of one-to-many virtual machine migration by reliable optical multicast <b>2015</b> ,		2
96	Experimental demonstration of converged inter/intra data center network architecture 2015,		2
95	Design Methodology for Optimizing Optical Interconnection Networks in High Performance Systems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 454-471	0.9	8
94	Design and characterization of a 30-GHz bandwidth low-power silicon traveling-wave modulator. <i>Optics Communications</i> , <b>2014</b> , 321, 124-133	2	55
93	Wavelength Locking and Thermally Stabilizing Microring Resonators Using Dithering Signals. Journal of Lightwave Technology, <b>2014</b> , 32, 505-512	4	84
92	A 10-Gb/s Silicon Microring Resonator-Based BPSK Link. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1805-1808	2.2	11
91	Impact of photonic switch radix on realizing optical interconnection networks for exascale systems <b>2014</b> ,		5
90	Intermodulation Crosstalk Characteristics of WDM Silicon Microring Modulators. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1478-1481	2.2	19
89	High-Speed Silicon Modulator With Slow-Wave Electrodes and Fully Independent Differential Drive. Journal of Lightwave Technology, <b>2014</b> , 32, 2240-2247	4	47
88	Fast wavelength locking of a microring resonator <b>2014</b> ,		3
87	Real-Time Power Control for Dynamic Optical Networks Algorithms and Experimentation. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2014</b> , 32, 1615-1628	14.2	12
86	Scalability of silicon photonic microring based switch <b>2014</b> ,		3
85	A Compact Low-Power 320-Gb/s WDM Transmitter Based on Silicon Microrings. <i>IEEE Photonics Journal</i> , <b>2014</b> , 6, 1-8	1.8	24
84	Fast Wavelength Locking of a Microring Resonator. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 2365-2	3 <u>6&amp;</u>	10
83	Ultra-compact 320 Gb/s and 160 Gb/s WDM transmitters based on silicon microrings <b>2014</b> ,		12
82	Resolving the thermal challenges for silicon microring resonator devices. <i>Nanophotonics</i> , <b>2014</b> , 3, 269-2	<b>86</b> .3	120
81	Reducing energy per delivered bit in silicon photonic interconnection networks <b>2014</b> ,		1

### (2012-2013)

80	Error-Free Operation of an All-Silicon Waveguide Photodiode at 1.9 \$mu{rm m}\$. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 2031-2034	2.2	12	
79	Microring resonance stabilization using thermal dithering 2013,		3	
78	Ultra-low latency optical switching for short message sizes in cluster scale systems 2013,		4	
77	Silicon photonic interconnection networks for data centers <b>2013</b> ,		4	
76	Real-time power control for dynamic optical networks - Algorithms and experimentation 2013,		2	
75	An Energy-Efficient Optically Connected Memory Module for Hybrid Packet- and Circuit-Switched Optical Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 3700407-3700407	3.8	25	
74	First Demonstration of a Cross-Layer Enabled Network Node. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 1512-1525	4	3	
73	Javanco: A software framework for optical network modelling and optimization 2013,		2	
72	Modeling and simulation environment for photonic interconnection networks in high performance computing <b>2013</b> ,		1	
71	Introduction to the Issue on Optical Interconnects for Data Centers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 0200302-0200302	3.8	1	
7º	Characterization of Nonlinear Optical Crosstalk in Silicon Nanowaveguides. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 185-187	2.2	9	
69	First Demonstration of a 10-Gb/s RZ End-to-End Four-Wave-Mixing Based Link at 1884 nm Using Silicon Nanowaveguides. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 276-278	2.2	16	
68	A Data Rate- and Modulation Format-Independent Packet-Switched Optical Network Test-Bed. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 377-379	2.2	3	
67	Colorless Optical Network Unit Based on Silicon Photonic Components for WDM PON. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1372-1374	2.2	13	
66	Experimental demonstration of wavelength-reconfigurable optical packet- and circuit-switched platform for data center networks <b>2012</b> ,		3	
65	40-Gb/s DPSK Data Transmission Through a Silicon Microring Switch. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 473-475	2.2	25	
64	Experimental characterization of the optical-power upper bound in a silicon microring modulator <b>2012</b> ,		11	
63	Optically interconnected data center architecture for bandwidth intensive energy efficient networking <b>2012</b> ,		7	

62	4\$,times,\$44 Gb/s Packet-Level Switching in a Second-Order Microring Switch. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1555-1557	2.2	16
61	Continuous Wavelength Conversion of 40-Gb/s Data Over 100 nm Using a Dispersion-Engineered Silicon Waveguide. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 73-75	2.2	20
60	Physical-Layer Modeling and System-Level Design of Chip-Scale Photonic Interconnection Networks. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2011</b> , 30, 150	7 <del>-</del> 1520	76
59	Broadband Silicon Photonic Electrooptic Switch for Photonic Interconnection Networks. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 504-506	2.2	46
58	10-Gb/s Access Network Architecture Based on Micro-Ring Modulators With Colorless ONU and Mitigated Rayleigh Backscattering. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 914-916	2.2	2
57	DPSK Transmission Through Silicon Microring Switch for Photonic Interconnection Networks. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1103-1105	2.2	9
56	Demonstration of Failure Reconfiguration via Cross-Layer Enabled Optical Switching Fabrics. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1679-1681	2.2	4
55	Intelligent highly-functional cross-layer optimized interfaces for future access/aggregation networks <b>2011</b> ,		1
54	VANDAL: A tool for the design specification of nanophotonic networks 2011,		12
53	Experimental demonstration of 10 gigabit ethernet-based optical interconnection network interface for large-scale computing systems <b>2011</b> ,		3
52	PhoenixSim: A simulator for physical-layer analysis of chip-scale photonic interconnection networks <b>2010</b> ,		75
51	Cross-layer communications for high-bandwidth optical networks <b>2010</b> ,		2
50	Intermodulation crosstalk from silicon microring modulators in wavelength-parallel photonic networks-on-chip <b>2010</b> ,		4
49	Demonstration of 8월0-Gb/s wavelength-striped packet switching in a multi-terabit capacity optical network test-bed <b>2010</b> ,		1
48	Optically interconnected high performance data centers <b>2010</b> ,		9
47	Circuit-Switched Memory Access in Photonic Interconnection Networks for High-Performance Embedded Computing <b>2010</b> ,		21
46	Demonstration of Asynchronous Operation of a Multiwavelength Optical Packet-Switched Fabric. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 1223-1225	2.2	5
45	Implementing an Optical QoS Encoding Scheme in an Optical Packet Switching Fabric Test-Bed. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 1518-1520	2.2	1

#### (2008-2010)

44	Cross-layer signal monitoring in an optical packet-switching test-bed via real-time burst sampling <b>2010</b> ,		4
43	Broadband Operation of Nanophotonic Router for Silicon Photonic Networks-on-Chip. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 926-928	2.2	69
42	On-chip optical interconnection network performance evaluation using power penalty metrics from silicon photonic modulators <b>2010</b> ,		4
41	Demonstration of 1.28-Tb/s transmission in next-generation nanowires for photonic networks-on-chip <b>2010</b> ,		2
40	Chip scale photonic interconnects for energy-performance optimized computing 2010,		1
39	Broadband CMOS-Compatible Silicon Photonic Electro-Optic Switch for Photonic Networks-on-Chip <b>2010</b> ,		8
38	High-Performance Modulators and Switches for Silicon Photonic Networks-on-Chip. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 6-22	3.8	82
37	Nanophotonic interconnection networks in multicore embedded computing 2009,		1
36	An Experimental Validation of a Wavelength-Striped, Packet Switched, Optical Interconnection Network. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 841-850	4	33
35	High-Speed 2\$, times ,\$2 Switch for Multiwavelength Silicon-Photonic Networks In-Chip. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 2900-2907	4	57
34	Ultrahigh-Bandwidth Silicon Photonic Nanowire Waveguides for On-Chip Networks. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 398-400	2.2	109
33	All-Optical Comb Switch for Multiwavelength Message Routing in Silicon Photonic Networks. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 767-769	2.2	139
32	Cross-Layer Communication With an Optical Packet Switched Network via a Message Injection Control Interface. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 967-969	2.2	3
31	The Data Vortex Optical Packet Switched Interconnection Network. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 1777-1789	4	79
30	Optical 4x4 hitless slicon router for optical networks-on-chip (NoC). <i>Optics Express</i> , <b>2008</b> , 16, 15915-22	3.3	288
29	Photonic Networks-on-Chip for Future Generations of Chip Multiprocessors. <i>IEEE Transactions on Computers</i> , <b>2008</b> , 57, 1246-1260	2.5	625
28	Nanophotonic Optical Interconnection Network Architecture for On-Chip and Off-Chip Communications <b>2008</b> ,		19
27	High-Speed 2½ switch for multi-wavelength message routing in on-chip silicon photonic networks <b>2008</b> ,		3

26	Design Exploration of Optical Interconnection Networks for Chip Multiprocessors 2008,		48
25	Thermally active 4월 non-blocking switch for networks-on-chip 2008,		4
24	Priority encoding scheme for contention resolution in optical packet-switched networks 2008,		1
23	250 Gb/s multi-wavelength operation of microring resonator-based broadband comb switch for silicon photonic networks-on-chip <b>2008</b> ,		3
22	Interface Optical Buffer and Packet-Switched Network Cross-Layer Signaling Demonstration 2008,		1
21	Insertion loss analysis in a photonic interconnection network for on-chip and off-chip communications <b>2008</b> ,		27
20	Demonstration of All-Optical Multi-Wavelength Message Routing for Silicon Photonic Networks <b>2008</b> ,		14
19	An All-Optical PCI-Express Network Interface for Optical Packet Switched Networks 2007,		1
18	The Data Vortex, an All Optical Path Multicomputer Interconnection Network. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2007</b> , 18, 409-420	3.7	30
17	Characterization of a 4\$,times,\$ 4 Gb/s Parallel Electronic Bus to WDM Optical Link Silicon Photonic Translator. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 456-458	2.2	22
16	Optimization of a Switching Node for Optical Multistage Interconnection Networks. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1658-1660	2.2	8
15	Silicon Microring Resonator-Based Broadband Comb Switch for Wavelength-Parallel Message Routing. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007,		8
14	Experimental Demonstration of Network Congestion Control with a Programmable Optical Packet Injection Buffer. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , <b>2007</b> ,		2
13	Demonstrated 4월 Gbps Silicon Photonic Integrated Parallel Electronic to WDM Interface 2007,		1
12	Experimental Demonstration of a Complete SPINet Optical Packet Switched Interconnection Network <b>2007</b> ,		4
11	Photonic NoC for DMA Communications in Chip Multiprocessors <b>2007</b> ,		52
10	A Modular, Scalable, Extensible, and Transparent Optical Packet Buffer. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 978-985	4	18
9	On the Design of a Photonic Network-on-Chip <b>2007</b> ,		141

#### LIST OF PUBLICATIONS

8	Signal Degradation through a 12 🛘 2 Optical Packet Switching Network <b>2006</b> ,		2	
7	Bistable Switching Node for Optical Packet Switched Networks <b>2006</b> ,		2	
6	A Novel Optical Buffer Architecture for Optical Packet Switching Routers 2006,		3	
5	Empirical Method for Determining SOA Gain Based on ASE Characterization. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 2224-2226	2.2	1	
4	Polarization-Dependent Gain in SOA-Based Optical Multistage Interconnection Networks. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 3959-3967	4	15	
3	Photonic Networks for Intra-Chip, Inter-Chip, and Box Interconnects in High-Performance Computing <b>2006</b> ,		6	
2	Photonic NoC for DMA Communications in Chip Multiprocessors		7	
1	DOE Advanced Scientific Computing Advisory Subcommittee (ASCAC) Report: Top Ten Exascale Research Challenges		18	