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Wavelength-selective 4 × 4 nonblocking silicon optical router for networks-on-chip

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#	Paper	IF	Citations
50	Optical modulators and routers for photonic networks-on-chip. 2012,		
49	Silicon waveguide wavelength-selective switch for on-chip WDM communications. 2012,		1
48	A hybrid packet-circuit switched router for optical network on chip. <i>Computers and Electrical Engineering</i> , 2013 , 39, 2197-2206	4.3	7
47	Four-Port Silicon Multi-Wavelength Optical Router for Photonic Networks-on-Chip. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2281-2284	2.2	25
46	Tunable Fano resonances based on two-beam interference in microring resonator. <i>Applied Physics Letters</i> , 2013 , 102, 011112	3.4	45
45	Five-Port Optical Router Based on Microring Switches for Photonic Networks-on-Chip. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 492-495	2.2	50
44	Silicon photonic network-on-chip and enabling components. <i>Science China Technological Sciences</i> , 2013 , 56, 543-553	3.5	6
43	Wavelength-routed optical networks-on-chip built with comb switches. 2013,		2
42	PushPull Optical Nonreciprocal Transmission in Cascaded Silicon Microring Resonators. <i>IEEE Photonics Journal</i> , 2013 , 5, 2200307-2200307	1.8	16
41	Mach-Zehnder-based five-port silicon router for optical interconnects. <i>Optics Letters</i> , 2013 , 38, 1703-5	3	20
40	A silicon Mach Zehnder comb switch for low power operation in on-chip optical data communications. 2014,		
39	Polymeric (N)-stage serial-cascaded four-port optical router with scalable (3N) channel wavelengths for wideband signal routing application. <i>Optical and Quantum Electronics</i> , 2014 , 46, 829-849	2.4	8
38	Wavelength-routed optical network with interleave microring switches for optical network-on-chips. 2014,		
37	Optimization of a polymer four-port microring optical router with three channel wavelengths. <i>Optoelectronics Letters</i> , 2014 , 10, 91-95	0.7	
36	Microring based ratio-metric wavelength monitor on silicon. 2014,		2
35	Universal method for constructing N-port non-blocking optical router based on 2 \times 2 optical switch for photonic networks-on-chip. <i>Optics Express</i> , 2014 , 22, 12614-27	3.3	21
34	Low-Power Operation in a Silicon Switch Based on an Asymmetric Mach-Zehnder Interferometer. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-8	1.8	13

33	Reconfigurable non-blocking four-port optical router based on microring resonators. <i>Optics Letters</i> , 2015 , 40, 1129-32	3	18
32	Topology and investigation of a polymer 8-port optical router with scalable 7N channel wavelengths using N-stage cascading structure. <i>Optics Communications</i> , 2015 , 339, 94-107	2	5
31	Bandwidth and wavelength tunable optical passband filter based on silicon multiple microring resonators. <i>Optics Letters</i> , 2016 , 41, 4807-4810	3	33
30	Silicon on-chip wavelength-selective switch composed of Mach-Zehnder-interferometer-based switches and microring resonators. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 068001	1.4	3
29	Silicon Add-Drop Filter Based on Multimode Grating Assisted Couplers. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-8	1.8	6
28	Comparative study of three wavelength-routed four-port optical routers based on different polymeric microring routing elements. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	
27	Five-Port Optical Router Based on Silicon Microring Optical Switches for Photonic Networks-on-Chip. <i>IEEE Photonics Technology Letters</i> , 2016 , 1-1	2.2	18
26	Mach-Zehnder wavelength selective switch embedded with microring resonators. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 022201	1.4	8
25	Silicon Add-Drop Filter Based on Multimode Bragg Sidewall Gratings and Adiabatic Couplers. <i>Journal of Lightwave Technology</i> , 2017 , 35, 1705-1709	4	18
24	Four-Port Optical Switch for Fat-Tree Photonic Network-on-Chip. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3237-3241	4	16
23	N-port strictly non-blocking optical router based on Mach-Zehnder optical switch for photonic networks-on-chip. <i>Optics Communications</i> , 2017 , 383, 472-477	2	6
22	Design of a Flexible-Grid 1-D Wavelength-Selective Switch Using Silicon Microring Resonators. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	3
21	Optical switch compatible with wavelength division multiplexing and mode division multiplexing for photonic networks-on-chip. <i>Optics Express</i> , 2017 , 25, 20698-20707	3.3	39
20	Scalable Bandwidth-Tunable Micro-Ring Filter Based on Multi-Channel-Spectrum Combination. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1044-1047	2.2	7
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5	Integrated non-blocking optical router harnessing wavelength- and mode-selective property for photonic networks-on-chip. <i>Optics Express</i> , 2021 , 29, 1251-1264	3.3	1
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