

# Jianyi Yang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

171 papers	2,656 citations	26 h-index	45 g-index
198 ext. papers	3,284 ext. citations	3 avg, IF	4.87 L-index

#	Paper	IF	Citations
171	Multi-Line Selective Optical Phased Array With Improved Uniformity of Radiated Beam Patterns. <i>IEEE Photonics Technology Letters</i> , <b>2022</b> , 34, 133-136	2.2	0
170	Comparison of Silicon Lattice-filter-based O-band 18 (De)Multiplexers with Flat and Gaussian-like Passbands. <i>IEEE Photonics Journal</i> , <b>2022</b> , 1-1	1.8	1
169	High-Speed and Low-Power Silicon Optical Phased Array Based on The Carrier-Depletion Mechanism. <i>IEEE Photonics Technology Letters</i> , <b>2022</b> , 1-1	2.2	0
168	Silicon-Based MZI-Embedded Microring Array with Hitless and FSR-Alignment-Free Wavelength Selection. <i>IEEE Photonics Technology Letters</i> , <b>2022</b> , 1-1	2.2	0
167	High linearity silicon DC Kerr modulator enhanced by slow light for 112 Gbit/s PAM4 over 2 km single mode fiber transmission. <i>Optics Express</i> , <b>2022</b> , 30, 16996	3.3	0
166	Text-conditioned Transformer for automatic pronunciation error detection. <i>Speech Communication</i> , <b>2021</b> , 130, 55-63	2.8	5
165	Non-volatile polarization-insensitive 10 silicon optical switch using phase-change materials. <i>Optics Communications</i> , <b>2021</b> , 479, 126407	2	6
164	Ultracompact Channel Add-Drop Filter Based on Single Multimode Nanobeam Photonic Crystal Cavity. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 162-166	4	6
163	Direct-binary-search-optimized compact silicon-based polarization beam splitter using a pixelated directional coupler. <i>Optics Communications</i> , <b>2021</b> , 484, 126670	2	1
162	Optical reversible logic gates based on graphene-silicon slot waveguides. <i>Optik</i> , <b>2021</b> , 228, 166182	2.5	1
161	Emotion Recognition Based on Skin Potential Signals with a Portable Wireless Device. <i>Sensors</i> , <b>2021</b> , 21,	3.8	6
160	Silicon Mode (de)Multiplexer Based on Cascaded Particle-Swarm-Optimized Counter-Tapered Couplers. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-10	1.8	0
159	Accent Recognition with Hybrid Phonetic Features. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
158	Compact and Low-Insertion-Loss 1N Power Splitter in Silicon Photonics. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 6253-6259	4	3
157	Electric-Field-Resonance-Based Wireless Triboelectric Nanogenerators and Sensors.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
156	Hitless Wavelength-Selective Switch Using a Single Microring Resonator Assisted With a Symmetric MZI. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 402-405	2.2	1
155	Improving the Linearity of Silicon Ring Modulators by Manipulating the Photon Dynamics. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-10	1.8	

154	Ultra-compact and low-loss silicon polarization beam splitter using a particle-swarm-optimized counter-tapered coupler. <i>Optics Express</i> , <b>2020</b> , 28, 30701-30709	3.3	7
153	High linearity silicon modulator capable of actively compensating input distortion. <i>Optics Letters</i> , <b>2020</b> , 45, 3785-3788	3	4
152	Hitless and gridless reconfigurable optical add drop (de)multiplexer based on looped waveguide sidewall Bragg gratings on silicon. <i>Optics Express</i> , <b>2020</b> , 28, 14461-14475	3.3	2
151	Compact and low-loss 1 × polarization-insensitive optical power splitter using cascaded tapered silicon waveguides. <i>Optics Letters</i> , <b>2020</b> , 45, 5596-5599	3	2
150	Deep quantised portrait matting. <i>IET Computer Vision</i> , <b>2020</b> , 14, 339-349	1.4	2
149	An Ultra-Compact 4 × and 8 × Optical Switch Based on Dual-Microring Resonators. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 1365-1368	2.2	4
148	A Silicon Optical Single Sideband Modulator With Ultra-High Sideband Suppression Ratio. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 1-1	2.2	3
147	Silicon-Based Flexible-Grid Mode- and Wavelength-Selective Switch Utilizing Microring Resonators and Y-Junctions. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 1-1	4	0
146	Plasmonic Feynman Gate Based on Suspended Graphene Nano-Ribbon Waveguides at THz Wavelengths. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-9	1.8	1
145	A Four-Channel DWDM Tunable Add/Drop Demultiplexer Based on Silicon Waveguide Bragg Gratings. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-8	1.8	10
144	Scalable Nonblocking 4 × 4 Silicon Optical Switch Based on Dual-Microring Resonators. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 397-400	2.2	4
143	Particle swarm optimized polarization beam splitter using metasurface-assisted silicon nitride Y-junction for mid-infrared wavelengths. <i>Optics Communications</i> , <b>2019</b> , 451, 186-191	2	8
142	Broadband and compact two-mode switch using a graphene-silicon Y-junction. <i>Optics Communications</i> , <b>2019</b> , 451, 240-245	2	0
141	Experimental demonstration of a flexible-grid 1 × wavelength-selective switch based on silicon microring resonators. <i>Optics Letters</i> , <b>2019</b> , 44, 403-406	3	2
140	Twin-Fano resonator with widely tunable slope for ultra-high-resolution wavelength monitor. <i>Optics Letters</i> , <b>2019</b> , 44, 4527-4530	3	4
139	Silicon dual-series Mach-Zehnder modulator with high linearity. <i>Optics Letters</i> , <b>2019</b> , 44, 5655-5658	3	4
138	High-power traveling-wave photodetector based on an aperiodically loaded open-circuit electrode. <i>Optics Letters</i> , <b>2019</b> , 44, 5582-5585	3	6
137	Silicon two-mode multi/demultiplexer based on tapered couplers. <i>Optik</i> , <b>2019</b> , 176, 518-522	2.5	2

136	Scalable Bandwidth-Tunable Micro-Ring Filter Based on Multi-Channel-Spectrum Combination. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1044-1047	2.2	7
135	Graphene-based nonvolatile terahertz switch with asymmetric electrodes. <i>Scientific Reports</i> , <b>2018</b> , 8, 1562	4.9	9
134	Experimental demonstration of a broadband two-mode multi/demultiplexer based on asymmetric Y-junctions. <i>Optics and Laser Technology</i> , <b>2018</b> , 100, 7-11	4.2	21
133	Broadband tunable filter based on the loop of multimode Bragg grating. <i>Optics Express</i> , <b>2018</b> , 26, 559-566	5.3	21
132	Narrow-Band Add-Drop Filter Based on Phase-Modulated Grating-Assisted Contra-Directional Couplers. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 3760-3764	4	16
131	Linearity Comparison of Silicon Carrier-Depletion-Based Single, Dual-Parallel, and Dual-Series Mach-Zehnder Modulators. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 3318-3331	4	15
130	A Silicon Aperiodically Distributed Traveling-Wave Photodetector With Enhanced RF Output Power. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 3152-3161	4	6
129	Bandwidth tunable filter with large bandwidth and wavelength tuning range <b>2018</b> ,		2
128	High-Q antisymmetric multimode nanobeam photonic crystal cavities in silicon waveguides. <i>Optics Express</i> , <b>2018</b> , 26, 26196-26204	3.3	9
127	Bandwidth-tunable optical passband filter based on graphene-silicon waveguide. <i>Optics Communications</i> , <b>2018</b> , 426, 206-211	2	8
126	Enhancing bulk defect-mediated absorption in silicon waveguides by doping compensation technique. <i>Scientific Reports</i> , <b>2018</b> , 8, 9929	4.9	1
125	Flexible-Grid Wavelength-Selective Switch Based on Silicon Microring Resonators With Interferometric Couplers. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 3344-3353	4	5
124	Slope tunable Fano resonances in asymmetric embedded microring resonators. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 025803	1.7	11
123	Silicon Add-Drop Filter Based on Multimode Bragg Sidewall Gratings and Adiabatic Couplers. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 1705-1709	4	18
122	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	144
121	Integrated High-Performance Two-Stage Ratiometric Wavelength Monitors On Silicon. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 1-1	2.2	3
120	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	1
119	A Broadband Fluorographene Photodetector. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700463	24	72

118	Broad bandwidth and large fabrication tolerance polarization beam splitter based on multimode anti-symmetric Bragg sidewall gratings. <i>Optics Letters</i> , <b>2017</b> , 42, 3912-3915	3	23
117	Silicon reflectors for external cavity lasers based on ring resonators. <i>Optics Communications</i> , <b>2017</b> , 383, 453-459	2	3
116	Design of a Flexible-Grid 1 $\times$ N Wavelength-Selective Switch Using Silicon Microring Resonators. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-10	1.8	3
115	Silicon lateral-apodized add-drop filter for on-chip optical interconnection. <i>Applied Optics</i> , <b>2017</b> , 56, 8425-8429	1.7	24
114	Silicon three-mode (de)multiplexer based on cascaded asymmetric Y junctions. <i>Optics Letters</i> , <b>2016</b> , 41, 2851-4	3	72
113	Silicon Add-Drop Filter Based on Multimode Grating Assisted Couplers. <i>IEEE Photonics Journal</i> , <b>2016</b> , 8, 1-8	1.8	6
112	Ultra-sensitive silicon photonic current sensor using a ring resonator. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 085802	1.7	1
111	High-Q and High-Order Side-Coupled Air-Mode Nanobeam Photonic Crystal Cavities in Silicon. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 1-1	2.2	4
110	High-extinction-ratio silicon polarization beam splitter with tolerance to waveguide width and coupling length variations. <i>Optics Express</i> , <b>2016</b> , 24, 6586-93	3.3	84
109	Three-port mode-(de)interleaver in silicon waveguide. <i>Optics and Laser Technology</i> , <b>2016</b> , 80, 196-203	4.2	1
108	Fano-resonance-based ultra-high-resolution ratio-metric wavelength monitor on silicon. <i>Optics Letters</i> , <b>2016</b> , 41, 544-7	3	27
107	Wavelength Tunable Cavity Mirror for Silicon Micro-Ring-Based Hybrid Integrated Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 935-938	2.2	1
106	Graphene-Based Floating-Gate Nonvolatile Optical Switch. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 284-287	2.2	19
105	. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1399-1402	2.2	1
104	Bandwidth and wavelength tunable optical passband filter based on silicon multiple microring resonators. <i>Optics Letters</i> , <b>2016</b> , 41, 4807-4810	3	33
103	Silicon band-rejection and band-pass filter based on asymmetric Bragg sidewall gratings in a multimode waveguide. <i>Optics Letters</i> , <b>2016</b> , 41, 2450-3	3	39
102	Electro-optical logic gates based on graphene-silicon waveguides. <i>Optics Communications</i> , <b>2016</b> , 372, 85-90	2	18
101	Design of an ultra-broadband silicon mode (de)multiplexer. <i>Optics Communications</i> , <b>2016</b> , 363, 7-12	2	3

100	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and p-n Heterojunctions. <i>ACS Nano</i> , <b>2016</b> , 10, 4895-919	16.7	257
99	Integrated high responsivity photodetectors based on graphene/glass hybrid waveguide. <i>Optics Letters</i> , <b>2016</b> , 41, 4214-7	3	1
98	Analysis and Design of Refractive Index Biosensors Based on Single Silicon Nanobeam Cavity. <i>IEEE Photonics Journal</i> , <b>2016</b> , 8, 1-10	1.8	5
97	An all-optical modulation method in sub-micron scale. <i>Scientific Reports</i> , <b>2015</b> , 5, 9206	4.9	14
96	Compact polarization splitter based on silicon grating-assisted couplers. <i>Optics Letters</i> , <b>2015</b> , 40, 1885-7	3	35
95	On-chip microwave signal generation based on a silicon microring modulator. <i>Optics Letters</i> , <b>2015</b> , 40, 3360-3	3	6
94	An integrated high-performance ratio-metric wavelength measurement device on glass. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 105802	1.7	3
93	Tunable microring based on-chip interrogator for wavelength-modulated optical sensors. <i>Optics Communications</i> , <b>2015</b> , 340, 116-120	2	8
92	Hybrid plasmonic waveguide crossing based on the multimode interference effect. <i>Optics Communications</i> , <b>2015</b> , 335, 86-89	2	9
91	Ultrahigh-Resolution Ratio-Metric Wavelength Monitors Based on Tunable Microrings on Silicon. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 592-595	2.2	1
90	Broadband Graphene/Glass Hybrid Waveguide Polarizer. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 927-930	2.2	22
89	A tunable silicon ring reflector. <i>Journal of Optics (India)</i> , <b>2015</b> , 44, 26-29	1.3	1
88	Proposal for a 2 $\times$ 2 Optical Switch Based on Graphene-Silicon-Waveguide Microring. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 235-238	2.2	23
87	Dual Mach-Zehnder Based Integrated X-Type Ratiometric Wavelength Monitor on Glass. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 433-436	2.2	9
86	Ultracompact plasmonic switch based on graphene-silica metamaterial. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 211104	3.4	18
85	Ultracompact optical modulator based on graphene-silica metamaterial. <i>Optics Letters</i> , <b>2014</b> , 39, 1909-12	3	34
84	Microring based ratio-metric wavelength monitor on silicon <b>2014</b> ,		2
83	Microring-based ratio-metric wavelength monitor on silicon. <i>Optics Letters</i> , <b>2014</b> , 39, 3298-300	3	13

82	Trade-off between optical modulation amplitude and modulation bandwidth of silicon micro-ring modulators. <i>Optics Express</i> , <b>2014</b> , 22, 15178-89	3.3	42
81	. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 2043-2046	2.2	16
80	On Reducing Insertion Loss in Wavelength-Routed Optical Network-on-Chip Architecture. <i>Journal of Optical Communications and Networking</i> , <b>2014</b> , 6, 879	4.1	6
79	LioeSim: A Network Simulator for Hybrid Opto-Electronic Networks-on-Chip Analysis. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 4301-4310	4	3
78	Modelling and analysis of phase modulator based on silicon microring for long-haul transmission. <i>IET Optoelectronics</i> , <b>2014</b> , 8, 161-166	1.5	
77	Influence of photocarriers to silicon optical modulator based on reverse-biased pn diode at 1550 nm wavelength. <i>Optik</i> , <b>2013</b> , 124, 2076-2078	2.5	1
76	Coupled Mode Theory Under The Parity-Time Symmetry Frame. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 2477-2481	4	14
75	Transmission characteristics of a plasmonic Bragg reflector based on a metal-embedded slot structure. <i>Journal of Optics (United Kingdom)</i> , <b>2013</b> , 15, 105005	1.7	7
74	Four-Port Silicon Multi-Wavelength Optical Router for Photonic Networks-on-Chip. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 2281-2284	2.2	25
73	Tunable Fano resonances based on two-beam interference in microring resonator. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 011112	3.4	45
72	A novel electrode structure with a reverse-biased p-n diode for high speed polymer-infiltrated slot modulators. <i>Optik</i> , <b>2013</b> , 124, 3436-3438	2.5	1
71	Silicon photonic network-on-chip and enabling components. <i>Science China Technological Sciences</i> , <b>2013</b> , 56, 543-553	3.5	6
70	Wavelength-routed optical networks-on-chip built with comb switches <b>2013</b> ,		2
69	Silicon mode multi/demultiplexer based on multimode grating-assisted couplers. <i>Optics Express</i> , <b>2013</b> , 21, 17904-11	3.3	133
68	FSR-free add-drop filter based on silicon grating-assisted contradirectional couplers. <i>Optics Letters</i> , <b>2013</b> , 38, 1-3	3	43
67	Mode multi/demultiplexer based on cascaded asymmetric Y-junctions. <i>Optics Express</i> , <b>2013</b> , 21, 25113-9	3.3	89
66	Enhancement of nonreciprocal phase shift by using nanoscale air gap: erratum. <i>Optics Letters</i> , <b>2013</b> , 38, 3354	3	
65	Low-chirp high-extinction-ratio modulator based on graphene-silicon waveguide. <i>Optics Letters</i> , <b>2013</b> , 38, 2512-5	3	43

64	Fano resonances in ultracompact waveguide Fabry-Perot resonator side-coupled lossy nanobeam cavities. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 091104	3-4	29
63	A Generic Optical Router Design for Photonic Network-on-Chips. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 368-376	4	60
62	A General Characterizing Method for Ring Resonators Based on Low Coherence Measurement. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 846-852	4	1
61	Circuit-switched on-chip photonic interconnection network <b>2012</b> ,		5
60	Asymmetric Fano resonance in eye-like microring system. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 021110	3-4	29
59	Four-port broadband optical router based on 1 $\times$ 1 optical switches <b>2012</b> ,		1
58	Mach-Zehnder based 2 $\times$ 2 electro-optical switches on silicon-on-insulator with low crosstalk <b>2012</b> ,		1
57	Mach-Zehnder-Based Four-Port Switching Module on SOI. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1313-1315	2-2	5
56	Characteristics of electro-refractive modulating based on Graphene-Oxide-Silicon waveguide. <i>Optics Express</i> , <b>2012</b> , 20, 22398-405	3-3	112
55	An improved surface-plasmonic nanobeam cavity for higher Q and smaller V. <i>Science Bulletin</i> , <b>2012</b> , 57, 3371-3374		6
54	Thermally Tunable Filters Based on Third-Order Microring Resonators for WDM Applications. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 524-526	2-2	44
53	A silicon quasi-DOS based on reverse-biased pn diode. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 635-638	1-2	2
52	Performance evaluation of photonic UWB generation based on silicon MZM. <i>Optics Express</i> , <b>2012</b> , 20, 7398-403	3-3	3
51	Performance influence of FCA and nonlinear FCD to the Mach-Zehnder-Interference based silicon DPSK generation. <i>Optics Express</i> , <b>2012</b> , 20, 23527-34	3-3	
50	A 2 $\times$ 2 nonblocking Mach-Zehnder-based silicon switch matrix. <i>Optics Express</i> , <b>2012</b> , 20, 12593-8	3-3	10
49	Highly integrated 3 $\times$ 3 silicon thermo-optical switch using a single combined phase shifter for optical interconnects. <i>Optics Letters</i> , <b>2012</b> , 37, 2307-9	3	12
48	On-chip wavelength-routed photonic networks with comb switches <b>2012</b> ,		4
47	On a Scalable, Non-Blocking Optical Router for Photonic Networks-on-Chip Designs <b>2011</b> ,		20



46	Analysis of thermal spreading resistance in high power LED package and its design optimization <b>2011</b> ,		5
45	Analysis of Electrooptic Modulator With 1-D Slotted Photonic Crystal Nanobeam Cavity. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 992-994	2.2	18
44	Chirp Characteristics of Silicon Mach-Zehnder Modulator Under Small-Signal Modulation. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 1011-1017	4	22
43	Electro-optical logic application of multimode interference coupler by multivalued controlling. <i>Applied Optics</i> , <b>2011</b> , 50, 2299-304	0.2	4
42	Ultrasmall-V high-Q photonic crystal nanobeam microcavities based on slot and hollow-core waveguides. <i>Optics Letters</i> , <b>2011</b> , 36, 1314-6	3	18
41	Wavelength-selective 4 × 4 nonblocking silicon optical router for networks-on-chip. <i>Optics Letters</i> , <b>2011</b> , 36, 4710-2	3	44
40	CMOS-Compatible 1 × 3 Silicon Electrooptic Switch With Low Crosstalk. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 751-753	2.2	6
39	High-speed compact silicon digital optical switch with slot structure. <i>Optik</i> , <b>2011</b> , 122, 955-959	2.5	3
38	Integrated optical isolators based on two-mode interference couplers. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 015403	1.7	2
37	A CMOS compatible 1B optical switch based on silicon on insulator <b>2010</b> ,		1
36	Ultracompact Electrooptic Silicon Modulator With Horizontal Photonic Crystal Slotted Slab. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 724-726	2.2	8
35	Enhancement of nonreciprocal phase shift by using nanoscale air gap. <i>Optics Letters</i> , <b>2010</b> , 35, 1335-7	3	8
34	Slab-Modulated Sidewall Bragg Gratings in Silicon-on-Insulator Ridge Waveguides. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> ,	2.2	10
33	Study of silicon photonics based on standard CMOS foundry <b>2010</b> ,		1
32	LiNbO3 Based 1 × 2 Y-Branch Digital Optical Switch Integrated with S-Bend Variable Optical Attenuator <b>2010</b> ,		1
31	Research of high speed optical switch based on compound semiconductor. <i>Science Bulletin</i> , <b>2009</b> , 54, 3679-3684		7
30	Asymmetric multimode interference isolator based on nonreciprocal phase shift. <i>Optics Communications</i> , <b>2009</b> , 282, 862-866	2	10
29	Electro-optic polymer assisted optical switch based on silicon slot structure. <i>Optics Communications</i> , <b>2009</b> , 282, 2506-2510	2	8

28	Athermal silicon arrayed waveguide grating with polymer-filled slot structure. <i>Optics Communications</i> , <b>2009</b> , 282, 2841-2844	2	12
27	Analysis of an MMI-Based Six-Port Circulator by Using 3-D Magneto-Optical Beam Propagation Method. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 4660-4666	4	2
26	Performance influence of carrier absorption to the Mach-Zehnder-interference based silicon optical switches. <i>Optics Express</i> , <b>2009</b> , 17, 7043-51	3.3	26
25	Fano-resonance-based Mach-Zehnder optical switch employing dual-bus coupled ring resonator as two-beam interferometer. <i>Optics Express</i> , <b>2009</b> , 17, 7708-16	3.3	28
24	A Proposal of Zero Leakage-Loss Passive Optical Combiner Based on Nonreciprocal Waveguide. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1493-1495	2.2	2
23	Fabrication of silicon photonic devices by utilizing industrial CMOS technology <b>2009</b> ,		2
22	Generalized reflection and transmission of beams. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	2
21	Wavelength-Selective Optical Waveguide Isolator Based on Nonreciprocal Ring-Coupled Mach-Zehnder Interferometer. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 3166-3172	4	7
20	Mode quasi-degeneracy and beam reflection in the total-internal-reflection optical waveguide switch. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 1568	1.7	1
19	Analytical model of spatial four-waveguide coupler. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 2769-2777	1.1	1
18	Turning-Mirror-Integrated Arrayed-Waveguide Gratings on Silicon-on-Insulator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2006</b> , 12, 1329-1334	3.8	3
17	2B Thermo-optical switch utilizing total internal reflection. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 011106	3.4	12
16	Optical switch based on multimode interference coupler. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 421-423	2.2	55
15	Low crosstalk 1/spl times/2 thermo-optic digital optical switch with integrated S-bend attenuator. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 610-612	2.2	11
14	Analytical model for the grazing reflection of a narrow beam. <i>Optics Letters</i> , <b>2006</b> , 31, 2747-9	3	3
13	Fabrication of compact turning mirrors in silicon-on-insulator materials. <i>Applied Optics</i> , <b>2005</b> , 44, 2409-15	1.7	4
12	Beam expansion in thermo-optic-effect-induced total internal reflection and its applications in optical switches. <i>Applied Optics</i> , <b>2005</b> , 44, 4846-53	1.7	4
11	Silicon-on-insulator-based optical demultiplexer employing turning-mirror-integrated arrayed-waveguide grating. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 378-380	2.2	18

10	Compact variable optical attenuator based on multimode interference coupler. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2361-2363	2.2	25
9	The design of a 2 $\mu$ m polymer TIR switch based on thermal field analysis employing thermo-optic effect <b>2005</b> ,		1
8	Etched-Diffraction-Grating-Based Planar Waveguide Demultiplexer on Silicon-on-Insulator. <i>Optical and Quantum Electronics</i> , <b>2004</b> , 36, 559-566	2.4	15
7	Polymer-based electrooptical circular-polarization modulator. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 96-98	2.2	8
6	Two-dimensional wavelength demultiplexing employing multilevel arrayed waveguides. <i>Optics Express</i> , <b>2004</b> , 12, 1084-9	3.3	20
5	Influence of loss on linearity of microring-assisted Mach-Zehnder modulator. <i>Optics Express</i> , <b>2004</b> , 12, 4178-88	3.3	38
4	Optical circular-polarization modulator employing tilt-poled electrooptic polymers. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 1930-1934	4	7
3	Characteristics of optical bandpass filters employing series-cascaded double-ring resonators. <i>Optics Communications</i> , <b>2003</b> , 228, 91-98	2	12
2	Polyimide-waveguide-based thermal optical switch using total-internal-reflection effect. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2947-2949	3.4	49
1	Multifunctional optical waveguide chips <b>2002</b> ,		1