Xinliang Zhang

List of Publications by Year in descending order

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866 papers 11,161 citations

44069 48 h-index 91884 69 g-index

870 all docs 870 docs citations

870 times ranked

5929 citing authors

#	Article	IF	CITATIONS
1	2D materials–based homogeneous transistor-memory architecture for neuromorphic hardware. Science, 2021, 373, 1353-1358.	12.6	177
2	Photonic matrix multiplication lights up photonic accelerator and beyond. Light: Science and Applications, 2022, 11, 30.	16.6	167
3	Orbital angular momentum complex spectrum analyzer for vortex light based on the rotational Doppler effect. Light: Science and Applications, 2017, 6, e16251-e16251.	16.6	144
4	All-optical AND gate at 10 Gbit/s based on cascaded single-port-couple SOAs. Optics Express, 2004, 12, 361.	3.4	123
5	Refractive index sensing based on higher-order mode reflection of a microfiber Bragg grating. Optics Express, 2010, 18, 26345.	3.4	118
6	Metalâ^'Oxideâ^'Semiconductor-Structured MgZnO Ultraviolet Photodetector with High Internal Gain. Journal of Physical Chemistry C, 2010, 114, 7169-7172.	3.1	112
7	Single-crystalline cubic MgZnO films and their application in deep-ultraviolet optoelectronic devices. Applied Physics Letters, 2009, 95, .	3.3	108
8	Bandwidth and wavelength-tunable optical bandpass filter based on silicon microring-MZI structure. Optics Express, 2011, 19, 6462.	3.4	108
9	Ultrawideband monocycle generation using cross-phase modulation in a semiconductor optical amplifier. Optics Letters, 2007, 32, 1223.	3.3	107
10	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. Nature, 2021, 596, 362-366.	27.8	102
11	Integrated switchable mode exchange for reconfigurable mode-multiplexing optical networks. Optics Letters, 2016, 41, 3257.	3.3	93
12	Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. Physical Review Letters, 2018, 120, 133901.	7.8	92
13	An optically tunable wideband optoelectronic oscillator based on a bandpass microwave photonic filter. Optics Express, 2013, 21, 16381.	3.4	89
14	A Continuously Tunable Sub-Gigahertz Microwave Photonic Bandpass Filter Based on an Ultra-High-Q Silicon Microring Resonator. Journal of Lightwave Technology, 2018, 36, 4312-4318.	4.6	89
15	Advances in soliton microcomb generation. Advanced Photonics, 2020, 2, 1.	11.8	89
16	Ultra-compact bent multimode silicon waveguide with ultralow inter-mode crosstalk. Optics Letters, 2017, 42, 3004.	3.3	87
17	Universal multimode waveguide crossing based on transformation optics. Optica, 2018, 5, 1549.	9.3	87
18	Multidimensional Manipulation of Photonic Spin Hall Effect with a Singleâ€Layer Dielectric Metasurface. Advanced Optical Materials, 2019, 7, 1801365.	7.3	83

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19	High-speed all-optical differentiator based on a semiconductor optical amplifier and an optical filter. Optics Letters, 2007, 32, 1872.	3.3	81
20	Simultaneous demonstration on all-optical digital encoder and comparator at 40 Gb/s with semiconductor optical amplifiers. Optics Express, 2007, 15, 15080.	3.4	81
21	Ultrafast All-Optical Signal Processing Based on Single Semiconductor Optical Amplifier and Optical Filtering. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 770-778.	2.9	81
22	Theoretical analysis and experimental verification on optical rotational Doppler effect. Optics Express, 2016, 24, 10050.	3.4	80
23	Synthesized soliton crystals. Nature Communications, 2021, 12, 3179.	12.8	77
24	Novel slow light waveguide with controllable delay-bandwidth product and utra-low dispersion. Optics Express, 2010, 18, 5942.	3.4	76
25	Comparison analysis of optical frequency comb generation with nonlinear effects in highly nonlinear fibers. Optics Express, 2013, 21, 8508.	3.4	76
26	Integrated dual-mode 3 dB power coupler based on tapered directional coupler. Scientific Reports, 2016, 6, 23516.	3.3	71
27	Self-Configuring and Reconfigurable Silicon Photonic Signal Processor. ACS Photonics, 2020, 7, 792-799.	6.6	70
28	2D Materials Enabled Nextâ€Generation Integrated Optoelectronics: from Fabrication to Applications. Advanced Science, 2021, 8, e2003834.	11.2	70
29	Ultrafast all-optical three-input Boolean XOR operation for differential phase-shift keying signals using periodically poled lithium niobate. Optics Letters, 2008, 33, 1419.	3.3	69
30	Si Photonics for Practical LiDAR Solutions. Applied Sciences (Switzerland), 2019, 9, 4225.	2.5	69
31	Triangular-shaped pulse generation based on self-convolution of a rectangular-shaped pulse. Optics Letters, 2014, 39, 2258.	3.3	67
32	On-chip data exchange for mode division multiplexed signals. Optics Express, 2016, 24, 528.	3.4	67
33	All-optical tuning of a magnetic-fluid-filled optofluidic ring resonator. Lab on A Chip, 2014, 14, 3004.	6.0	65
34	Deterministic generation and switching of dissipative Kerr soliton in a thermally controlled micro-resonator. AIP Advances, 2019, 9, .	1.3	62
35	All-optical ultrawideband monocycle generation utilizing gain saturation of a dark return-to-zero signal in a semiconductor optical amplifier. Optics Letters, 2007, 32, 2158.	3.3	59
36	Improvement of delay-bandwidth productâ€'in photonic crystal slow-light waveguides. Optics Express, 2010, 18, 16309.	3.4	58

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37	All-Optical Tunable Microlaser Based on an Ultrahigh- $\langle i \rangle Q \langle i \rangle$ Erbium-Doped Hybrid Microbottle Cavity. ACS Photonics, 2018, 5, 3794-3800.	6.6	58
38	Ultrahigh-speed all-optical half adder based on four-wave mixing in semiconductor optical amplifier. Optics Express, 2006, 14, 11839.	3.4	57
39	Compact Notch Microwave Photonic Filters Using On-Chip Integrated Microring Resonators. IEEE Photonics Journal, 2013, 5, 5500307-5500307.	2.0	57
40	Dual-pump Kerr Micro-cavity Optical Frequency Comb with varying FSR spacing. Scientific Reports, 2016, 6, 28501.	3.3	57
41	40Gb/s all-optical logic NOR and OR gates using a semiconductor optical amplifier: Experimental demonstration and theoretical analysis. Optics Communications, 2008, 281, 1710-1715.	2.1	55
42	PPLN-Based Flexible Optical Logic and Gate. IEEE Photonics Technology Letters, 2008, 20, 211-213.	2.5	54
43	N-dimentional multiplexing link with 1.036-Pbit/s transmission capacity and 112.6-bit/s/Hz spectral efficiency using OFDM-8QAM signals over 368 WDM pol-muxed 26 OAM modes. , 2014, , .		53
44	All-optical differentiator based on cross-gain modulation in semiconductor optical amplifier. Optics Letters, 2007, 32, 3029.	3.3	52
45	Reconfigurable All-Optical Logic Gates for Multi-Input Differential Phase-Shift Keying Signals: Design and Experiments. Journal of Lightwave Technology, 2009, 27, 5268-5275.	4.6	51
46	On-chip multiplexing conversion between wavelength division multiplexing–polarization division multiplexing and wavelength division multiplexing–mode division multiplexing. Optics Letters, 2014, 39, 758.	3.3	51
47	Optical Nonreciprocity in Asymmetric Optomechanical Couplers. Scientific Reports, 2015, 5, 8657.	3.3	51
48	Ultrahigh-Q microwave photonic filter with Vernier effect and wavelength conversion in a cascaded pair of active loops. Optics Letters, 2010, 35, 1242.	3.3	50
49	Temporal imaging using a time pinhole. Optics Express, 2014, 22, 8076.	3.4	50
50	Efficient Optical Angular Momentum Manipulation for Compact Multiplexing and Demultiplexing Using a Dielectric Metasurface. Advanced Optical Materials, 2020, 8, 1901666.	7.3	50
51	40 Gb/s all-optical NRZ to RZ format conversion using single SOA assisted by optical bandpass filter. Optics Express, 2007, 15, 2907.	3.4	48
52	A proposal for two-input arbitrary Boolean logic gates using single semiconductor optical amplifier by picosecond pulse injection. Optics Express, 2009, 17, 7725.	3.4	48
53	All-optical UWB generation and modulation using SOA-XPM effect and DWDM-based multi-channel frequency discrimination. Optics Express, 2010, 18, 24588.	3.4	48
54	Wideband tunable optoelectronic oscillator based on a microwave photonic filter with an ultra-narrow passband. Optics Letters, 2018, 43, 2328.	3.3	48

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55	Ultra-compact waveguide crossing for a mode-division multiplexing optical network. Optics Letters, 2017, 42, 4913.	3.3	47
56	All-in-one silicon photonic polarization processor. Nanophotonics, 2019, 8, 2257-2267.	6.0	47
57	Photonic generation of a microwave signal by incorporating a delay interferometer and a saturable absorber. Optics Letters, 2008, 33, 554.	3.3	46
58	High-order photonic differentiator employing on-chip cascaded microring resonators. Optics Letters, 2013, 38, 628.	3.3	46
59	Single-longitudinal-mode fiber ring laser using fiber grating-based Fabry–Perot filters and variable saturable absorbers. Optics Communications, 2006, 267, 177-181.	2.1	45
60	An ultra-low crosstalk and broadband two-mode (de)multiplexer based on adiabatic couplers. Scientific Reports, 2016, 6, 38494.	3.3	44
61	Quantum Key Distribution with Onâ€Chip Dissipative Kerr Soliton. Laser and Photonics Reviews, 2020, 14, 1900190.	8.7	44
62	Silicon-on-insulator-based microwave photonic filter with narrowband and ultrahigh peak rejection. Optics Letters, 2018, 43, 1359.	3.3	43
63	Investigation of Patterning Effects in Ultrafast SOA-Based Optical Switches. IEEE Journal of Quantum Electronics, 2010, 46, 87-94.	1.9	42
64	Two-dimensional grating coupler with a low polarization dependent loss of 025  dB covering the C-band. Optics Letters, 2016, 41, 4206.	3.3	42
65	Single SOA based 16 DWDM channels all-optical NRZ-to-RZ format conversions with different duty cycles. Optics Express, 2008, 16, 16166.	3.4	41
66	Multi-channel WDM RZ-to-NRZ format conversion at 50 Gbit/s based on single silicon microring resonator. Optics Express, 2010, 18, 21121.	3.4	41
67	Switchable microwave photonic filter between high Q bandpass filter and notch filter with flat passband based on phase modulation. Optics Express, 2010, 18, 25271.	3.4	41
68	All-optical differential equation solver with constant-coefficient tunable based on a single microring resonator. Scientific Reports, 2014, 4, 5581.	3.3	41
69	On-chip programmable pulse processor employing cascaded MZI-MRR structure. Frontiers of Optoelectronics, 2019, 12, 148-156.	3.7	41
70	All-optical computation system for solving differential equations based on optical intensity differentiator. Optics Express, 2013, 21, 7008.	3.4	40
71	Compact, flexible and versatile photonic differentiator using silicon Mach-Zehnder interferometers. Optics Express, 2013, 21, 7014.	3.4	40
72	Slow light in an alternative row of ellipse-hole photonic crystal waveguide. Applied Optics, 2013, 52, 1155.	1.8	40

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73	High-contrast and low-power all-optical switch using Fano resonance based on a silicon nanobeam cavity. Optics Letters, 2018, 43, 5977.	3.3	40
74	Coherent emission of light using stacked gratings. Physical Review B, 2013, 87, .	3.2	39
75	Ultrahigh-speed graphene-based optical coherent receiver. Nature Communications, 2021, 12, 5076.	12.8	39
76	Novel Kind of Semislow Light Photonic Crystal Waveguides With Large Delay-Bandwidth Product. IEEE Photonics Technology Letters, 2010, 22, 844-846.	2.5	38
77	Generation of Terahertz Vortices Using Metasurface With Circular Slits. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	38
78	On-chip WDM mode-division multiplexing interconnection with optional demodulation function. Optics Express, 2015, 23, 32130.	3.4	38
79	Broadband multi-wavelength optical sensing based on photothermal effect of 2D MXene films. Nanophotonics, 2020, 9, 123-131.	6.0	38
80	Wideband adaptive microwave frequency identification using an integrated silicon photonic scanning filter. Photonics Research, 2019, 7, 172.	7.0	38
81	All-Optical Clock Recovery From NRZ-DPSK Signal. IEEE Photonics Technology Letters, 2006, 18, 2356-2358.	2.5	37
82	Multi-Channel 40 Gbit/s NRZ-DPSK Demodulation Using a Single Silicon Microring Resonator. Journal of Lightwave Technology, 2011, 29, 677-684.	4.6	37
83	Efficient spot size converter for higher-order mode fiber-chip coupling. Optics Letters, 2017, 42, 3702.	3.3	37
84	Fractional-order photonic differentiator using an on-chip microring resonator. Optics Letters, 2014, 39, 6355.	3.3	36
85	Double metal subwavelength slit arrays interference to measure the orbital angular momentum and the polarization of light. Optics Letters, 2014, 39, 3173.	3.3	36
86	Performance of integrated optical switches based on 2D materials and beyond. Frontiers of Optoelectronics, 2020, 13, 129-138.	3.7	36
87	Anisotropic polaritons in van der Waals materials. InformaÄ n Ã-Materiály, 2020, 2, 777-790.	17.3	36
88	Subwavelength polarization splitter–rotator with ultra-compact footprint. Optics Letters, 2019, 44, 4495.	3.3	36
89	Dynamic interferometry measurement of orbital angular momentum of light. Optics Letters, 2014, 39, 6058.	3.3	35
90	Single step etched two dimensional grating coupler based on the SOI platform. Optics Express, 2015, 23, 32490.	3.4	35

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91	Ultra efficient silicon nitride grating coupler with bottom grating reflector. Optics Express, 2015, 23, 26305.	3.4	35
92	Arbitrary waveform generator and differentiator employing an integrated optical pulse shaper. Optics Express, 2015, 23, 12161.	3.4	35
93	Single SOA based all-optical adder assisted by optical bandpass filter: Theoretical analysis and performance optimization. Optics Communications, 2007, 270, 238-246.	2.1	34
94	A Tunable Microwave Photonic Filter Based on an All-Optical Differentiator. IEEE Photonics Technology Letters, 2011, 23, 308-310.	2.5	34
95	Highly efficient phase-matched second harmonic generation using an asymmetric plasmonic slot waveguide configuration in hybrid polymer-silicon photonics. Optics Express, 2013, 21, 14876.	3.4	34
96	All-optical 10 Gb/s AND logic gate in a silicon microring resonator. Optics Express, 2013, 21, 25772.	3.4	34
97	Short and efficient mode-size converter designed by segmented-stepwise method. Optics Letters, 2014, 39, 6273.	3.3	34
98	Integrated programmable photonic filter on the silicon-on-insulator platform. Optics Express, 2014, 22, 31993.	3.4	34
99	Wideband and Compact TE-Pass/TM-Stop Polarizer Based on a Hybrid Plasmonic Bragg Grating for Silicon Photonics. Journal of Lightwave Technology, 2014, 32, 1383-1386.	4.6	34
100	Compact double-part grating coupler for higher-order mode coupling. Optics Letters, 2018, 43, 3172.	3.3	34
101	High-order all-optical differential equation solver based on microring resonators. Optics Letters, 2013, 38, 3735.	3.3	33
102	Tunable megahertz bandwidth microwave photonic notch filter based on a silica microsphere cavity. Optics Letters, 2016, 41, 5078.	3.3	33
103	Monolithically mode division multiplexing photonic integrated circuit for large-capacity optical interconnection. Optics Letters, 2016, 41, 3543.	3.3	33
104	Silicon Integrated Interferometric Optical Gyroscope. Scientific Reports, 2018, 8, 8766.	3.3	33
105	Extremely Confined Acoustic Phonon Polaritons in Monolayer-hBN/Metal Heterostructures for Strong Light–Matter Interactions. ACS Photonics, 2020, 7, 2610-2617.	6.6	33
106	Silicon-on-insulator-based microwave photonic filter with widely adjustable bandwidth. Photonics Research, 2019, 7, 110.	7.0	33
107	Numerical analysis of polarization splitter based on vertically coupled microring resonator. Optics Express, 2006, 14, 11304.	3.4	32
108	On-chip passive three-port circuit of all-optical ordered-route transmission. Scientific Reports, 2015, 5, 10190.	3.3	32

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109	Tunable Slow Light Based on Plasmon-Induced Transparency in Dual-Stub-Coupled Waveguide. IEEE Photonics Technology Letters, 2015, 27, 89-92.	2.5	32
110	Repetition Rate Multiplication Pulsed Laser Source Based on a Microring Resonator. ACS Photonics, 2017, 4, 1677-1683.	6.6	32
111	De-multiplexing free on-chip low-loss multimode switch enabling reconfigurable inter-mode and inter-path routing. Nanophotonics, 2018, 7, 1571-1580.	6.0	32
112	Microstructure and grain growth direction of SRR99 single-crystal superalloy by selective laser melting. Journal of Alloys and Compounds, 2019, 808, 151740.	5.5	32
113	Double-layer graphene on photonic crystal waveguide electro-absorption modulator with 12 GHz bandwidth. Nanophotonics, 2020, 9, 2377-2385.	6.0	32
114	A tunable and switchable single-longitudinal-mode dual-wavelength fiber laser incorporating a reconfigurable dual-pass Mach–Zehnder interferometer and its application in microwave generation. Optics Communications, 2011, 284, 2337-2340.	2.1	31
115	Simultaneous multiple DWDM channel NRZ-to-RZ regenerative format conversion at 10 and 20 Gb/s. Optics Express, 2009, 17, 3964.	3.4	30
116	All-Optical Canonical Logic Units-Based Programmable Logic Array (CLUs-PLA) Using Semiconductor Optical Amplifiers. Journal of Lightwave Technology, 2012, 30, 3532-3539.	4.6	30
117	Tunable bandpass microwave photonic filter with ultrahigh stopband attenuation and skirt selectivity. Optics Express, 2016, 24, 18655.	3.4	30
118	A Simplified Photonic Approach to Measuring the Microwave Doppler Frequency Shift. IEEE Photonics Technology Letters, 2018, 30, 246-249.	2.5	30
119	Ultrafast time-stretch microscopy based on dual-comb asynchronous optical sampling. Optics Letters, 2018, 43, 2118.	3.3	30
120	Real-time observation of frequency Bloch oscillations with fibre loop modulation. Light: Science and Applications, 2021, 10, 48.	16.6	30
121	20-Gb/s All-Optical Format Conversions From RZ Signals With Different Duty Cycles to NRZ Signals. IEEE Photonics Technology Letters, 2007, 19, 1027-1029.	2.5	29
122	All-Optical Format Conversions Using Periodically Poled Lithium Niobate Waveguides. IEEE Journal of Quantum Electronics, 2009, 45, 195-205.	1.9	29
123	Single Passband Microwave Photonic Filter With Continuous Wideband Tunability Based on Electro-Optic Phase Modulator and Fabry–Pérot Semiconductor Optical Amplifier. Journal of Lightwave Technology, 2011, 29, 3542-3550.	4.6	29
124	Iron-oxide nanoparticles embedded silica microsphere resonator exhibiting broadband all-optical wavelength tunability. Optics Letters, 2014, 39, 3845.	3.3	29
125	On-chip switch for reconfigurable mode-multiplexing optical network. Optics Express, 2016, 24, 21722.	3.4	29
126	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	6.6	29

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127	Experimental demonstration of both inverted and non-inverted wavelength conversion based on transient cross phase modulation of SOA. Optics Express, 2006, 14, 7587.	3.4	28
128	40â€Gbit/s reconfigurable photonic logic gates based on various nonlinearities in single SOA. Electronics Letters, 2007, 43, 884.	1.0	28
129	Integrated tunable mode filter for a mode-division multiplexing system. Optics Letters, 2018, 43, 3658.	3.3	28
130	Fully integrated CMOS-compatible polarization analyzer. Nanophotonics, 2019, 8, 467-474.	6.0	28
131	All-optical format conversion using a periodically poled lithium niobate waveguide and a reflective semiconductor optical amplifier. Applied Physics Letters, 2007, 91, 051107.	3.3	27
132	Experimental demonstration on 40Gbit/s all-optical multicasting logic XOR gate for NRZ-DPSK signals using four-wave mixing in highly nonlinear fiber. Optics Communications, 2009, 282, 2615-2619.	2.1	27
133	All-Optical Format Conversion From RZ to NRZ Utilizing Microfiber Resonator. IEEE Photonics Technology Letters, 2009, 21, 1202-1204.	2.5	27
134	Bandwidth improvement for germanium photodetector using wire bonding technology. Optics Express, 2015, 23, 25700.	3.4	27
135	Experimental observation of optical differentiation and optical Hilbert transformation using a single SOI microdisk chip. Scientific Reports, 2015, 4, 3960.	3.3	27
136	Compact and broadband multimode waveguide bend by shape-optimizing with transformation optics. Photonics Research, 2020, 8, 1843.	7.0	27
137	Program-controlled single soliton microcomb source. Photonics Research, 2021, 9, 66.	7.0	27
138	Chip-integrated all-optical 4-bit Gray code generation based on silicon microring resonators. Optics Express, 2015, 23, 21414.	3.4	26
139	Enhanced optical gradient forces between coupled graphene sheets. Scientific Reports, 2016, 6, 28568.	3.3	26
140	Energy-efficient on-chip optical diode based on the optomechanical effect. Optics Express, 2017, 25, 8975.	3.4	26
141	Whispering gallery modes in a single silica microparticle attached to an optical microfiber and their application for highly sensitive displacement sensing. Optics Express, 2018, 26, 195.	3.4	26
142	Tunable Brillouin and Raman microlasers using hybrid microbottle resonators. Nanophotonics, 2019, 8, 931-940.	6.0	26
143	Chip-Scale Optical Matrix Computation for PageRank Algorithm. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	2.9	26
144	On-chip terahertz isolator with ultrahigh isolation ratios. Nature Communications, 2021, 12, 5570.	12.8	26

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145	Silicon mode multiplexer processing dual-path mode-division multiplexing signals. Optics Letters, 2016, 41, 5511.	3.3	26
146	Tunable all-optical NOR gate at 10 Gb/s based on SOA fiber ring laser. Optics Express, 2005, 13, 2793.	3.4	25
147	Active microring optical integrator associated with electroabsorption modulators for high speed low light power loadable and erasable optical memory unit. Optics Express, 2009, 17, 12835.	3.4	25
148	Analysis of modulation format in the 40 Gbit/s optical communication system. Optik, 2010, 121, 1550-1557.	2.9	25
149	Reconfigurable photonic full-adder and full-subtractor based on three-input XOR gate and logic minterms. Electronics Letters, 2012, 48, 399.	1.0	25
150	Phase regeneration of phase-shift keying signals in highly nonlinear hybrid plasmonic waveguides. Optics Letters, 2013, 38, 848.	3.3	25
151	Tunable fractional-order differentiator using an electrically tuned silicon-on-isolator Mach-Zehnder interferometer. Optics Express, 2014, 22, 18232.	3.4	25
152	40 Gb/s reconfigurable optical logic gates based on FWM in silicon waveguide. Optics Express, 2016, 24, 2701.	3.4	25
153	Self-locked orthogonal polarized dual comb in a microresonator. Photonics Research, 2018, 6, 363.	7.0	25
154	Two-dimensional silicon photonic grating coupler with low polarization-dependent loss and high tolerance. Optics Express, 2019, 27, 22268.	3.4	25
155	Voltage-actuated thermally tunable on-chip terahertz filters based on a whispering gallery mode resonator. Optics Letters, 2019, 44, 4670.	3.3	25
156	A small microring array that performs large complex-valued matrix-vector multiplication. Frontiers of Optoelectronics, 2022, 15 , .	3.7	25
157	Simultaneous ultraviolet, visible, and near-infrared continuous-wave lasing in a rare-earth-doped microcavity. Advanced Photonics, 2022, 4, .	11.8	25
158	Analysis on dynamic characteristics of semiconductor optical amplifiers with certain facet reflection based on detailed wideband model. Optics Express, 2007, 15, 9096.	3.4	24
159	Transmission characteristics of dual microring resonators coupled via 3×3 couplers. Optics Express, 2007, 15, 13557.	3.4	24
160	Terahertz-bandwidth photonic temporal differentiator based on a silicon-on-isolator directional coupler. Optics Letters, 2015, 40, 5614.	3.3	24
161	Highly Nonlinear Organic-Silicon Slot Waveguide for Ultrafast Multimode All-Optical Logic Operations. IEEE Photonics Journal, 2020, 12, 1-12.	2.0	24
162	Multiwavelength lasers based on semiconductor optical amplifiers. IEEE Photonics Technology Letters, 2002, 14, 750-752.	2.5	23

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163	Experimental observation of all-optical non-return-to-zero-to-return-to-zero format conversion based on cascaded second-order nonlinearity assisted by active mode-locking. Optics Letters, 2007, 32, 2462.	3.3	23
164	All-optical format conversion from CS-RZ to NRZ at 40Gbit/s. Optics Express, 2007, 15, 5693.	3.4	23
165	Optical phase erasure and its application to format conversion through cascaded second-order processes in periodically poled lithium niobate. Optics Letters, 2008, 33, 1804.	3.3	23
166	SOA-Based Ultrafast Multifunctional All-Optical Logic Gates With PolSK Modulated Signals. IEEE Journal of Quantum Electronics, 2009, 45, 1542-1550.	1.9	23
167	Ultra-Wideband Generation Based on Cascaded Mach–Zehnder Modulators. IEEE Photonics Technology Letters, 2011, 23, 1754-1756.	2.5	23
168	All-optical control of ultrahigh-Q silica microcavities with iron oxide nanoparticles. Optics Letters, 2017, 42, 5133.	3.3	23
169	Controllable Kerr and Raman-Kerr frequency combs in functionalized microsphere resonators. Nanophotonics, 2019, 8, 2321-2329.	6.0	23
170	Single-longitudinal-mode dual-wavelength fiber ring laser by incorporating variable saturable absorbers and feedback fiber loops. Optics Communications, 2007, 273, 231-237.	2.1	22
171	Generation of a 640 Gbit/s NRZ OTDM signal using a silicon microring resonator. Optics Express, 2011, 19, 6471.	3.4	22
172	Optimized Quantum–Well Semiconductor Optical Amplifier for RZ-DPSK Signal Regeneration. IEEE Journal of Quantum Electronics, 2011, 47, 819-826.	1.9	22
173	Phase regeneration for polarization-division multiplexed signals based on vector dual-pump nondegenerate phase sensitive amplification. Optics Express, 2015, 23, 2010.	3.4	22
174	A Low Crosstalk and Broadband Polarization Rotator and Splitter Based on Adiabatic Couplers. IEEE Photonics Technology Letters, 2016, 28, 2253-2256.	2.5	22
175	Analysis of Performance Optimization for a Microwave Photonic Filter Based on Stimulated Brillouin Scattering. Journal of Lightwave Technology, 2017, 35, 4375-4383.	4.6	22
176	Ultrafast electrical spectrum analyzer based on all-optical Fourier transform and temporal magnification. Optics Express, 2017, 25, 7520.	3.4	22
177	Integrated silicon multifunctional mode-division multiplexing system. Optics Express, 2019, 27, 10798.	3.4	22
178	Optical UWB doublet pulse generation using multiple nonlinearities of single SOA. Electronics Letters, 2008, 44, 1083.	1.0	21
179	82-channel multi-wavelength comb generation in a SOA fiber ring laser. Optics and Laser Technology, 2010, 42, 285-288.	4.6	21
180	Filter-Free Optically Switchable and Tunable Ultrawideband Monocycle Generation Based on Wavelength Conversion and Fiber Dispersion. IEEE Photonics Technology Letters, 2010, 22, 42-44.	2.5	21

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181	Simultaneous all-optical demodulation and format conversion for multi-channel (CS)RZ-DPSK signals. Optics Express, 2011, 19, 12427.	3.4	21
182	Simultaneous all-optical multi-channel RZ and CSRZ to NRZ format conversion. Optics Communications, 2011, 284, 129-135.	2.1	21
183	All-optical wavelength conversion for mode division multiplexed superchannels. Optics Express, 2016, 24, 8926.	3.4	21
184	Integrated all-optical programmable logic array based on semiconductor optical amplifiers. Optics Letters, 2018, 43, 2150.	3.3	21
185	Ultracompact optical switch using a single semisymmetric Fano nanobeam cavity. Optics Letters, 2020, 45, 2363.	3.3	21
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