

# Linjie Zhou

## List of Publications by Year in descending order

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267  
papers

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94433

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268  
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268  
docs citations

268  
times ranked

4230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zwitterionic materials for antifouling membrane surface construction. <i>Acta Biomaterialia</i> , 2016, 40, 142-152.	8.3	392
2	16 Å– 16 non-blocking silicon optical switch based on electro-optic Mach-Zehnder interferometers. <i>Optics Express</i> , 2016, 24, 9295.	3.4	196
3	2D Heterostructure Membranes with Sunlight-Driven Self-Cleaning Ability for Highly Efficient Oil-Water Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1706545.	14.9	182
4	Real-time full-field arbitrary optical waveform measurement. <i>Nature Photonics</i> , 2010, 4, 248-254.	31.4	161
5	Unified constant-frequency integration control of active power filters-steady-state and dynamics. <i>IEEE Transactions on Power Electronics</i> , 2001, 16, 428-436.	7.9	148
6	High-performance mode-locked and Q-switched fiber lasers based on novel 2D materials of topological insulators, transition metal dichalcogenides and black phosphorus: review and perspective (invited). <i>Optics Communications</i> , 2018, 406, 214-229.	2.1	139
7	Miniature Multilevel Optical Memristive Switch Using Phase Change Material. <i>ACS Photonics</i> , 2019, 6, 2205-2212.	6.6	138
8	Continuously tunable ultra-thin silicon waveguide optical delay line. <i>Optica</i> , 2017, 4, 507.	9.3	127
9	Electrically reconfigurable silicon microring resonator-based filter with waveguide-coupled feedback. <i>Optics Express</i> , 2007, 15, 9194.	3.4	117
10	Silicon electro-optic modulators using p-i-n diodes embedded 10-micron-diameter microdisk resonators. <i>Optics Express</i> , 2006, 14, 6851.	3.4	114
11	Fano resonance-based electrically reconfigurable add-drop filters in silicon microring resonator-coupled Mach-Zehnder interferometers. <i>Optics Letters</i> , 2007, 32, 781.	3.3	111
12	Silicon microring carrier-injection-based modulators/switches with tunable extinction ratios and OR-logic switching by using waveguide cross-coupling. <i>Optics Express</i> , 2007, 15, 5069.	3.4	106
13	Chlorine-resistant polyester thin film composite nanofiltration membranes prepared with $\beta$ -cyclodextrin. <i>Journal of Membrane Science</i> , 2019, 584, 282-289.	8.2	98
14	Seven-bit reconfigurable optical true time delay line based on silicon integration. <i>Optics Express</i> , 2014, 22, 22707.	3.4	95
15	Athermalizing and Trimming of Slotted Silicon Microring Resonators With UV-Sensitive PMMA Upper-Cladding. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1175-1177.	2.5	90
16	Coherent interference induced transparency in self-coupled optical waveguide-based resonators. <i>Optics Letters</i> , 2011, 36, 13.	3.3	87
17	Miniature Microring Resonator Sensor Based on a Hybrid Plasmonic Waveguide. <i>Sensors</i> , 2011, 11, 6856-6867.	3.8	77
18	Nonvolatile waveguide transmission tuning with electrically-driven ultra-small GST phase-change material. <i>Science Bulletin</i> , 2019, 64, 782-789.	9.0	75

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19	Silicon integrated microwave photonic beamformer. <i>Optica</i> , 2020, 7, 1162.	9.3	75
20	Creation of active-passive integrated mechanisms on membrane surfaces for superior antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2018, 548, 621-631.	8.2	67
21	Continuously tunable reflective-type optical delay lines using microring resonators. <i>Optics Express</i> , 2014, 22, 817.	3.4	59
22	16 Å—16 silicon Mach-Zehnder interferometer switch actuated with waveguide microheaters. <i>Photonics Research</i> , 2016, 4, 202.	7.0	57
23	Low-power 2 Å—2 silicon electro-optic switches based on double-ring assisted Mach-Zehnder interferometers. <i>Optics Letters</i> , 2014, 39, 1633.	3.3	54
24	Tunable Vernier Microring Optical Filters With $\pi$ -Type Microheaters. <i>IEEE Photonics Journal</i> , 2013, 5, 6601211-6601211.	2.0	53
25	Design and analysis of a phase modulator based on a metal-polymer-silicon hybrid plasmonic waveguide. <i>Applied Optics</i> , 2011, 50, 3428.	2.1	52
26	16 Å— 16 Silicon Optical Switch Based on Dual-Ring-Assisted Mach-Zehnder Interferometers. <i>Journal of Lightwave Technology</i> , 2018, 36, 225-232.	4.6	52
27	Autonomous Acquisition of Seam Coordinates for Arc Welding Robot Based on Visual Servoing. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2006, 47, 239-255.	3.4	51
28	Aliasing-free optical phased array beam-steering with a plateau envelope. <i>Optics Express</i> , 2019, 27, 3354.	3.4	49
29	Tunable silicon Fabry-Perot comb filters formed by Sagnac loop mirrors. <i>Optics Letters</i> , 2013, 38, 567.	3.3	48
30	4 × 4 Silicon Optical Switches Based on Double-Ring-Assisted Mach-Zehnder Interferometers. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2457-2460.	2.5	47
31	Design of an Electro-Optic Modulator Based on a Silicon-Plasmonic Hybrid Phase Shifter. <i>Journal of Lightwave Technology</i> , 2013, 31, 1170-1177.	4.6	46
32	Ultracompact Si-GST Hybrid Waveguides for Nonvolatile Light Wave Manipulation. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	2.0	45
33	All-optical differential equation solver with constant-coefficient tunable based on a single microring resonator. <i>Scientific Reports</i> , 2014, 4, 5581.	3.3	41
34	Efficient silicon polarization rotator based on mode-hybridization in a double-stair waveguide. <i>Optics Express</i> , 2015, 23, 3960.	3.4	40
35	Heat-Electricity Coupled Peak Load Shifting for Multi-Energy Industrial Parks: A Stackelberg Game Approach. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 1858-1869.	8.8	39
36	Tunable two-stage self-coupled optical waveguide resonators. <i>Optics Letters</i> , 2013, 38, 1215.	3.3	38

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37	60-nm-thick basic photonic components and Bragg gratings on the silicon-on-insulator platform. <i>Optics Express</i> , 2015, 23, 20784.	3.4	38
38	Unified constant-frequency integration control of active power filters. , 0, , .		37
39	Nested Configuration of Silicon Microring Resonator With Multiple Coupling Regimes. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 580-583.	2.5	37
40	Linearity Measurement and Pulse Amplitude Modulation in a Silicon Single-Drive Push-Pull Mach-Zehnder Modulator. <i>Journal of Lightwave Technology</i> , 2016, 34, 3323-3329.	4.6	37
41	Fractional-order photonic differentiator using an on-chip microring resonator. <i>Optics Letters</i> , 2014, 39, 6355.	3.3	36
42	Modeling and optimization of a single-drive push-pull silicon Mach-Zehnder modulator. <i>Photonics Research</i> , 2016, 4, 153.	7.0	34
43	A Review on Terahertz Technologies Accelerated by Silicon Photonics. <i>Nanomaterials</i> , 2021, 11, 1646.	4.1	34
44	All-optical non-volatile tuning of an AMZI-coupled ring resonator with GST phase-change material. <i>Optics Letters</i> , 2018, 43, 5539.	3.3	34
45	Silicon Polygonal Microdisk Resonators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 1438-1449.	2.9	33
46	Broadband 4 $\times$ 4 Nonblocking Silicon Electrooptic Switches Based on Mach-Zehnder Interferometers. <i>IEEE Photonics Journal</i> , 2015, 7, 1-8.	2.0	32
47	Optical Frequency Comb and Nyquist Pulse Generation With Integrated Silicon Modulators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-8.	2.9	31
48	Integrated optical delay lines: a review and perspective [Invited]. <i>Chinese Optics Letters</i> , 2018, 16, 101301.	2.9	31
49	CMOS Compatible Reconfigurable Silicon Photonic Lattice Filters Using Cascaded Unit Cells for RF-Photonic Processing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 359-368.	2.9	29
50	Constructing dual-defense mechanisms on membrane surfaces by synergy of PFSA and SiO <sub>2</sub> nanoparticles for persistent antifouling performance. <i>Applied Surface Science</i> , 2018, 440, 113-124.	6.1	29
51	Design and evaluation of an arbitration-free passive optical crossbar for on-chip interconnection networks. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 1111-1118.	2.3	28
52	Photonic-assisted microwave signal multiplication and modulation using a silicon Mach-Zehnder modulator. <i>Scientific Reports</i> , 2016, 6, 20215.	3.3	28
53	On-Chip NRZ-to-PRZ Format Conversion Using Narrow-Band Silicon Microring Resonator-Based Notch Filters. <i>Journal of Lightwave Technology</i> , 2008, 26, 1950-1955.	4.6	27
54	Towards athermal optically-interconnected computing system using slotted silicon microring resonators and RF-photonic comb generation. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 1101-1109.	2.3	27

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55	All-optical wavelength conversion and signal regeneration of PAM-4 signal using a silicon waveguide. <i>Optics Express</i> , 2016, 24, 7158.	3.4	27
56	Reconfigurable High-Resolution Microwave Photonic Filter Based on Dual-Ring-Assisted MZIs on the Si <sub>3</sub> N <sub>4</sub> Platform. <i>IEEE Photonics Journal</i> , 2018, 10, 1-12.	2.0	27
57	Silicon high-speed binary phase-shift keying modulator with a single-drive push-pull high-speed traveling wave electrode. <i>Photonics Research</i> , 2015, 3, 58.	7.0	25
58	Design and Analysis of a Miniature Intensity Modulator Based on a Silicon-Polymer-Metal Hybrid Plasmonic Waveguide. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	2.0	24
59	4 Å– 4 Nonblocking Silicon Thermo-Optic Switches Based on Multimode Interferometers. <i>Journal of Lightwave Technology</i> , 2015, 33, 857-864.	4.6	24
60	Multi-party Energy Management of Energy Hub: A Hybrid Approach with Stackelberg Game and Blockchain. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020, 8, 919-928.	5.4	24
61	Coupling characteristics between two conical micro/nano fibers: simulation and experiment. <i>Optics Express</i> , 2011, 19, 3854.	3.4	23
62	Manipulating the multifunctionalities of polydopamine to prepare high-flux anti-biofouling composite nanofiltration membranes. <i>RSC Advances</i> , 2016, 6, 32863-32873.	3.6	23
63	Mode-Selective Hybrid Plasmonic Bragg Grating Reflector. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1765-1767.	2.5	22
64	CMOS-compatible temperature-independent tunable silicon optical lattice filters. <i>Optics Express</i> , 2013, 21, 9447.	3.4	22
65	On-Chip Optical Power Monitor Using Periodically Interleaved P-N Junctions Integrated on a Silicon Waveguide. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 56-63.	2.9	22
66	Electromagnetically Induced Transparency in a Silicon Self-Coupled Optical Waveguide. <i>Journal of Lightwave Technology</i> , 2018, 36, 2188-2195.	4.6	22
67	On-Chip Integrated Photonic Devices Based on Phase Change Materials. <i>Photonics</i> , 2021, 8, 205.	2.0	21
68	Linearity Characterization of a Dual-Parallel Silicon Mach-Zehnder Modulator. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	2.0	20
69	Comparison of the phase change process in a GST-loaded silicon waveguide and MMI. <i>Optics Express</i> , 2021, 29, 3503.	3.4	20
70	Hybrid integrated external cavity laser with a 172-nm tuning range. <i>APL Photonics</i> , 2022, 7, .	5.7	20
71	Low-voltage high-speed coupling modulation in silicon racetrack ring resonators. <i>Optics Express</i> , 2015, 23, 28993.	3.4	19
72	High-Linearity Fano Resonance Modulator Using a Microring-Assisted Mach-Zehnder Structure. <i>Journal of Lightwave Technology</i> , 2020, 38, 3395-3403.	4.6	19

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73	Photonic Multiple Microwave Frequency Measurement Based on Frequency-to-Time Mapping. IEEE Photonics Journal, 2018, 10, 1-7.	2.0	18
74	High-gain erbium silicate waveguide amplifier and a low-threshold, high-efficiency laser. Optics Express, 2018, 26, 16689.	3.4	18
75	Design of Ultra-Compact Optical Memristive Switches with GST as the Active Material. Micromachines, 2019, 10, 453.	2.9	18
76	Broadband continuously tunable microwave photonic delay line based on cascaded silicon microrings. Optics Express, 2021, 29, 3375.	3.4	18
77	Phase change material enabled 2 <sup>nd</sup> silicon nonvolatile optical switch. Optics Letters, 2021, 46, 4224.	3.3	18
78	Design, optimization, and performance evaluation of GSST clad low-loss non-volatile switches. Applied Optics, 2019, 58, 8687.	1.8	18
79	Waveguide self-coupling based reconfigurable resonance structure for optical filtering and delay. Optics Express, 2011, 19, 8032.	3.4	17
80	Tunable spiral Bragg gratings in 60-nm-thick silicon-on-insulator strip waveguides. Optics Express, 2016, 24, 12831.	3.4	17
81	Nonlinearity- and dispersion- less integrated optical time magnifier based on a high-Q SiN microring resonator. Scientific Reports, 2019, 9, 14277.	3.3	17
82	Silicon Non-Blocking 4 × 4 Optical Switch Chip Integrated With Both Thermal and Electro-Optic Tuners. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	16
83	Incorporating dual-defense mechanism with functionalized graphene oxide and perfluorosulfonic acid for anti-fouling membranes. Separation and Purification Technology, 2020, 234, 116082.	7.9	16
84	Resonant multilevel optical switching with phase change material GST. Nanophotonics, 2022, 11, 3437-3446.	6.0	16
85	Analysis of subwavelength bandpass plasmonic filters based on single and coupled slot nanocavities. Applied Optics, 2013, 52, 480.	1.8	15
86	Numerical investigation of the linearity of graphene-based silicon waveguide modulator. Optics Express, 2019, 27, 9013.	3.4	15
87	Feasibility study of a Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> -clad silicon waveguide as a non-volatile optical on-off switch. OSA Continuum, 2019, 2, 49.	1.8	15
88	Photoconductive effect on p-i-p micro-heaters integrated in silicon microring resonators. Optics Express, 2014, 22, 2141.	3.4	14
89	Silicon thermo-optic variable optical attenuators based on Mach-Zehnder interference structures. Optics Communications, 2015, 341, 69-73.	2.1	14
90	4 <sup>th</sup> nonblocking optical switch fabric based on cascaded multimode interferometers. Photonics Research, 2016, 4, 21.	7.0	14

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91	Optical FMCW Signal Generation Using a Silicon Dual-Parallel Mach-Zehnder Modulator. IEEE Photonics Technology Letters, 2021, 33, 301-304.	2.5	14
92	Hybrid WDM-MDM transmitter with an integrated Si modulator array and a micro-resonator comb source. Optics Express, 2021, 29, 39847.	3.4	14
93	Thermally Tuned High-Performance III-V/Si <sub>3</sub> N <sub>4</sub> External Cavity Laser. IEEE Photonics Journal, 2021, 13, 1-13.	2.0	13
94	Automatic calibration of silicon ring-based optical switch powered by machine learning. Optics Express, 2020, 28, 10438.	3.4	13
95	Photonic Microwave Frequency Measurement With High Accuracy and Sub-MHz Resolution. Journal of Lightwave Technology, 2022, 40, 2748-2753.	4.6	13
96	Multi-Scale Analysis of Regional Inequality based on Spatial Field Model: A Case Study of China from 2000 to 2012. ISPRS International Journal of Geo-Information, 2015, 4, 1982-2003.	2.9	12
97	Wavelength-selective switching using double-ring resonators coupled by a three-waveguide directional coupler. Optics Express, 2015, 23, 13488.	3.4	12
98	Microwave Pulse Generation With a Silicon Dual-Parallel Modulator. Journal of Lightwave Technology, 2020, 38, 2134-2143.	4.6	12
99	NRZ-to-PRZ format conversion using silicon second-order coupled-microring resonator-based notch filters. , 2007, , .		11
100	Design of a high-modulation-depth, low-energy silicon modulator based on coupling tuning in a resonance-split microring. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3047.	2.1	11
101	All-optical multi-channel wavelength conversion of Nyquist 16 QAM signal using a silicon waveguide. Optics Letters, 2015, 40, 5475.	3.3	11
102	Microwave frequency upconversion employing a coupling-modulated ring resonator. Photonics Research, 2017, 5, 689.	7.0	11
103	32-Gb/s OOK and 64-Gb/s PAM-4 Modulation Using a Single-Drive Silicon Mach-Zehnder Modulator with 2 V Drive Voltage. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	11
104	Contra-directional switching enabled by Si-GST grating. Optics Express, 2020, 28, 1574.	3.4	11
105	Investigation of Coupling Tuning in Self-Coupled Optical Waveguide Resonators. IEEE Photonics Technology Letters, 2013, 25, 936-939.	2.5	10
106	Channel-spacing tunable silicon comb filter using two linearly chirped Bragg gratings. Optics Express, 2014, 22, 19513.	3.4	10
107	Application of SOI microring coupling modulation in microwave photonic phase shifters. Frontiers of Optoelectronics, 2016, 9, 483-488.	3.7	10
108	Silicon optical filters reconfigured from a 16 × 16 Benes switch matrix. Optics Express, 2019, 27, 16945.	3.4	10

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109	Enhanced near-infrared photodetection with avalanche gain in silicon microdisk resonators integrated with p-n diodes. <i>Optics Letters</i> , 2014, 39, 4525.	3.3	9
110	Assembly of self-cleaning perfluoroalkyl coating on separation membrane surface. <i>Applied Surface Science</i> , 2019, 496, 143674.	6.1	9
111	Energy Management Considering Energy Storage and Demand Response for Smart Energy Hub in Internet of Things. <i>IEEE Access</i> , 2024, , 1-1.	4.2	9
112	Focusing and defocusing switching of an indium selenide-silicon photonic metalens. <i>Optics Letters</i> , 2021, 46, 4088.	3.3	9
113	Broadband 1Å–8 Optical Beamforming Network Based on Anti-resonant Microring Delay Lines. <i>Journal of Lightwave Technology</i> , 2022, 40, 6919-6928.	4.6	9
114	Hybrid Integrated Frequency-Modulated Continuous-Wave Laser With Synchronous Tuning. <i>Journal of Lightwave Technology</i> , 2022, 40, 5636-5645.	4.6	9
115	Fully Reconfigurable Silicon Photonic Lattice Filters with Four Cascaded Unit Cells. , 2010, , .		8
116	Dual-Layer Cross-Coupled Tunable Resonator System in a Three-Dimensional Si <sub>3</sub> N <sub>4</sub> Photonic Integration Platform. <i>Journal of Lightwave Technology</i> , 2019, 37, 3298-3304.	4.6	8
117	A design method for high fabrication tolerance integrated optical mode multiplexer. <i>Science China Information Sciences</i> , 2020, 63, 1.	4.3	8
118	Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. <i>IEEE Photonics Journal</i> , 2020, 12, 1-11.	2.0	8
119	Broadband Silicon Four-Mode (De)Multiplexer Using Subwavelength Grating-Assisted Triple-Waveguide Couplers. <i>Journal of Lightwave Technology</i> , 2021, 39, 5042-5047.	4.6	8
120	Fano resonances in prism-coupled multimode square micropillar resonators. <i>Optics Letters</i> , 2005, 30, 1527.	3.3	7
121	Efficient Fiber-to-Slot-Waveguide Grating Couplers Based on a Double-Strip Waveguide. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2377-2380.	2.5	7
122	Analysis of a Silicon Reconfigurable Feed-Forward Optical Delay Line. <i>IEEE Photonics Journal</i> , 2014, 6, 1-11.	2.0	7
123	Selective excitation of microring resonances using a pulley-coupling structure. <i>Applied Optics</i> , 2014, 53, 878.	1.8	7
124	Optimization of adiabatic microring resonators with few-mode and high-Q resonances. <i>Applied Optics</i> , 2015, 54, 10207.	2.1	7
125	Hybrid plasmonic waveguide made of a nanofiber attached to a metal film. <i>Optics Express</i> , 2015, 23, 16984.	3.4	7
126	Optimized Silicon QPSK Modulator With 64-Gb/s Modulation Speed. <i>IEEE Photonics Journal</i> , 2015, 7, 1-6.	2.0	7



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127	Field-programmable silicon temporal cloak. Nature Communications, 2019, 10, 2726.	12.8	7
128	Modeling a Dual-Parallel Silicon Modulator for Sinc-Shaped Nyquist Pulse Generation. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	7
129	Integrated multi-beam optical phased array based on a 4×4 Butler matrix. Optics Letters, 2021, 46, 1566.		
130	Linearity characterization of a dual-parallel Mach-Zehnder modulator. , 2016, , .		7
131	Characterisation of microring resonator optical delay and its dependence on coupling gap using modulation phase-shift technique. Electronics Letters, 2012, 48, 1613-1614.	1.0	6
132	Six-wave mixing induced by free-carrier plasma in silicon nanowire waveguides. Laser and Photonics Reviews, 2016, 10, 1054-1061.	8.7	6
133	Non-volatile optical memory based on a slot nanobeam resonator filled with GST material. , 2018, , .		6
134	Reconfigurable RF notch filter based on an integrated silicon optical true time delay line. Journal Physics D: Applied Physics, 2019, 52, 194001.	2.8	6
135	Phase-Coded Microwave Signal Generation Based on a Segmented Silicon Mach-Zehnder Modulator. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	2.9	6
136	Double-Layer Cross-Coupled Silicon Nitride Multi-Ring Resonator Systems. IEEE Photonics Technology Letters, 2020, 32, 227-230.	2.5	6
137	Design and analysis of a highly efficient coupler between a micro/nano optical fiber and an SOI waveguide. Applied Optics, 2012, 51, 3410.	1.8	5
138	Silicon active microring resonators for optical switching. , 2016, , .		5
139	Optical Power Monitoring with Ultrahigh Sensitivity in Silicon Waveguides and Ring Resonators. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	5
140	Integrated High-Resolution Optical Spectrum Analyzer With Broad Operational Bandwidth. IEEE Photonics Technology Letters, 2020, 32, 1061-1064.	2.5	5
141	Silicon Mach-Zehnder modulator using a highly-efficient L-shape PN junction. , 2018, , .		5
142	Linearity Measurement of a Silicon Single-Drive Push-Pull Mach-Zehnder Modulator. , 2015, , .		5
143	Tunable Vernier Microring Optical Filters Using p-i-p Resistor-Based Micro-Heaters. , 2013, , .		5
144	Experimental demonstration of self-coupled optical waveguide (SCOW)-based resonators. , 2012, , .		4

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145	All-Silicon Waveguide Avalanche Photodetectors With Ultrahigh Gain-Bandwidth Product and Low Breakdown Voltage. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 226-231.	2.9	4
146	Flexible nanofiber-coupled hybrid plasmonic Bragg grating. Optics Express, 2016, 24, 9316.	3.4	4
147	Energy Management for Smart Energy Hub Considering Gas Dispatch Factor and Demand Response. , 2018, , .		4
148	Silicon microring resonators tuned with GST phase change material. , 2018, , .		4
149	Improved performance of polyamide nanofiltration membranes by incorporating reduced glutathione during interfacial polymerization. Korean Journal of Chemical Engineering, 2018, 35, 2487-2495.	2.7	4
150	Ultra-Compact Multi-Level Optical Switching with Non-Volatile GST Phase Change. , 2019, , .		4
151	Reconfigurable Silicon Photonic Processor Based on SCOW Resonant Structures. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	4
152	Coupled-Resonator-Induced-Transparency in Cascaded Self-Coupled Optical Waveguide (SCOW) Resonators. , 2012, , .		4
153	Nanosecond-range Continuously Tunable Silicon Optical Delay Line Using Ultra-thin Silicon Waveguides. , 2016, , .		4
154	Silicon mode-loop Mach-Zehnder modulator with L-shaped PN junction for 0.37ÅVÅ-cm $V_{\text{sub}} > \text{V}_{\text{L}}$ high-efficiency modulation. Photonics Research, 2022, 10, 214.	7.0	4
155	Silicon-on-insulator electro-optically tunable waveguide-coupled microdisk resonators with selectively integrated p-i-n diodes. , 0, , .		3
156	Microring and microdisk resonator integrated circuits on a silicon chip. , 2007, , .		3
157	Silicon microring resonator-based reconfigurable optical lattice filter for on-chip optical signal processing. , 2009, , .		3
158	Highly-efficient optical power combiners based on evanescently-coupled micro/nano optical fibers. Optics Communications, 2012, 285, 3592-3596.	2.1	3
159	All-optical wavelength converter using a microdisk resonator integrated with p-n junctions. Science Bulletin, 2014, 59, 2709-2716.	1.7	3
160	Optimized silicon MZI modulators for 50 Gbit/s OOK and 40 Gbit/s BPSK modulation. , 2015, , .		3
161	Strictly non-blocking 4Å—4 silicon electro-optic switch based on a double layer network architecture. , 2016, , .		3
162	Silicon large-scale optical switches using MZIs and dual-ring assisted MZIs. Proceedings of SPIE, 2016, , .	0.8	3

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163	Programmable SCOW Mesh Silicon Photonic Processor for Linear Unitary Operator. <i>Micromachines</i> , 2019, 10, 646.	2.9	3
164	Integrated High-Repetition-Rate Optical Sampling Chip Exploiting Wavelength and Mode Multiplexing. <i>Journal of Lightwave Technology</i> , 2021, 39, 5548-5557.	4.6	3
165	Design of phase change Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> based on-off electro-optic switch. , 2018, , .		3
166	PRYING THE NATURE OF SUPERCRITICAL ADSORPTION VIA ISOTHERM SPACE TRANSFORMATIONS. , 2000, , .		3
167	Towards Athermal Slotted Silicon Microring Resonators with UV-Trimable PMMA Upper-Cladding. , 2009, , .		3
168	Tunable Two-Stage Self-Coupled Optical Waveguide (SCOW) Resonators. , 2013, , .		3
169	Miniature Silicon Nanobeam Resonator Tuned by GST Phase Change Material. , 2018, , .		3
170	Silicon-on-insulator tunable waveguide-coupled microdisk resonators with selectively integrated p-i-n diodes. , 2005, , .		2
171	Ultra-compact and broadband orthogonal coupler between strip and slot silicon waveguides. , 2011, , .		2
172	Chirp-free optical return-to-zero modulation based on a single microring resonator. <i>Optics Express</i> , 2012, 20, 7663.	3.4	2
173	Optical signal processing using silicon resonance and slow-light structures. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
174	Tunable photonic differentiator and integrator with a silicon microring resonator. , 2014, , .		2
175	FWM Dynamics Under Dual-Pump Thermal Behavior in Silicon Microring Resonator. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	2.0	2
176	Reconfiguring the 16 Å— 16 silicon optical switch for optical beam steering application. , 2017, , .		2
177	Synchronous driving scheme for silicon-based optical switches to critically compensate for thermo-optic effect in carrier injection. <i>Applied Optics</i> , 2017, 56, 205.	2.1	2
178	Enhanced forward stimulated Brillouin scattering in silicon photonic slot waveguide Bragg grating. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 184001.	2.8	2
179	Non-volatile silicon photonic devices enabled by phase change material. , 2019, , .		2
180	UWB Pulses Generation with Fano Resonance Modulation. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
181	Corrections to "Optical Frequency Comb and Nyquist Pulse Generation With Integrated Silicon Modulators", IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-1.	2.9	2
182	Silicon Waveguide based Two-Input Simultaneous Quaternary Hybrid Doubling/Subtraction (2A-B, 2B-A) Using Degenerate FWM and QPSK. , 2015, , .		2
183	Fabrication of Microfiber-Based Bragg Gratings with Ultraviolet-Light Exposure. , 2011, , .		2
184	Microwave signal processing using high speed silicon optical modulators. , 2016, , .		2
185	High-Efficiency Silicon Mach-Zehnder Modulator with U-Shaped PN Junctions. , 2019, , .		2
186	All-optical synapses based on silicon microring resonators actuated by the phase change material Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . , 2019, , .		2
187	Silicon Integrated Low-Loss 4-Channel 5-Bit Optical True-Time Delay Lines. , 2021, , .		2
188	Self-coupled optical waveguide (SCOW)-based reconfigurable second-order optical filter. , 2013, , .		1
189	Selective excitation of microring resonances using a pulley-coupling structure. , 2013, , .		1
190	Tunable Silicon Comb Filters Based on Fabry-Perot Resonators Formed by Sagnac Loop Mirrors. , 2013, , .		1
191	Broadband 4&#x00D7;4 non-blocking optical switch fabric based on Mach-Zehnder interferometers. , 2014, , .		1
192	Seven-bit reconfigurable optical true time delay line based on silicon integration: erratum. Optics Express, 2014, 22, 25516.	3.4	1
193	Self-coupled optical waveguide (SCOW) resonators for optical signal processing. , 2014, , .		1
194	Integrated Bragg grating filter in ultra-thin silicon-on-insulator strip waveguides. Proceedings of SPIE, 2015, , .	0.8	1
195	All-silicon near-infrared phototransistor based on surface-state absorption. , 2015, , .		1
196	4&#x00D7;4 strictly non-blocking optical switch fabric based on cascaded multimode interferometers. , 2015, , .		1
197	Ultrahigh-sensitivity on-chip power monitor using a resistive microheater in a silicon waveguide. , 2016, , .		1
198	Silicon dual-ring resonator-based push-pull modulators. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
199	Reconfigurable Silicon Photonic Signal Processor Based on the SCOW Resonant Structure. , 2018, , .		1
200	All-Optical Non-volatile Tuning of Nanobeam Resonators Using the GST Phase-Change Material. , 2019, , .		1
201	High-linearity silicon modulator based on a reconfigurable microring-assisted Mach-Zehnder interferometer. , 2019, , .		1
202	Calibration of a 2 $\mu$ m Optical Switch Based on the Back-Propagation Artificial Neural Network. , 2019, , .		1
203	Optical generation of UWB pulses utilizing Fano resonance modulation. <i>Frontiers of Optoelectronics</i> , 2021, 14, 426-437.	3.7	1
204	Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator. <i>IEEE Photonics Journal</i> , 2020, 12, 1-15.	2.0	1
205	Characterization of DNA Optical Microfiber Devices Fabricated by Drawing. , 2011, , .		1
206	All-Optical Three-Input Simultaneous Multicast Quaternary Addition/Subtraction Using Non-degenerate FWM in a Silicon Waveguide and 20 Gbit/s QPSK Signal. , 2016, , .		1
207	Miniature intensity modulator based on a silicon-polymer hybrid plasmonic waveguide. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
208	Coupled-Resonator-Induced-Transparency in Cascaded Self-Coupled Optical Waveguide (SCOW) Resonators. , 2012, , .		1
209	A Tunable Bragg Grating Optical Delay Line Based on Chirp Dynamic Tuning. , 2012, , .		1
210	Photocurrent Generation in a Microdisk Resonator Integrated with Interleaved P-N Junctions. , 2013, , .		1
211	Cross-phase Modulation (XPM)-induced All Optical Switching in a Coupling-tuned Silicon Ring Resonator. , 2015, , .		1
212	Design of an ultra-compact optical modulator based on a silicon-vanadium dioxide hybrid waveguide. , 2016, , .		1
213	Reconfigurable silicon optical filters using a dual-ring assisted Mach-Zehnder interferometer based 16 $\mu$ m switch. , 2017, , .		1
214	High-speed silicon electro-optic modulator based on a single multimode waveguide. , 2019, , .		1
215	8 $\mu$ m Microring Optical Switch on a Dual-layer Si <sub>3</sub> N <sub>4</sub> -on-SOI Platform. , 2021, , .		1
216	Waveguide-coupled Square Micropillar Resonator-based Devices: Channel Filters and Electro-optic Switches with Embedded p-i-n Diodes. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
217	Electrically Tunable Fano Resonance Line Shapes by Using Racetrack Microresonator-Coupled Mach-Zehnder Interferometers with Embedded p-i-n Diodes. , 2006, , .		0
218	Silicon Electro-Optic Switches using Microring Resonators with Phase-Tunable Feedback. , 2006, , .		0
219	Silicon electro-optic modulators based on p-i-n diodes integrated microdisk and microring resonators. , 2006, , .		0
220	SUPERCritical ADSORPTION MECHANISM AND ITS IMPACT TO APPLICATION STUDIES. , 2007, , .		0
221	Silicon depletion-type microdisk electro-optic modulators using selectively integrated Schottky diodes. , 2007, , .		0
222	Silicon depletion-type microdisk electro-optic modulators using selectively integrated Schottky diodes. , 2007, , .		0
223	Electrically tunable silicon plasmonic phase modulators with nano-scale optical confinement. Frontiers of Optoelectronics in China, 2011, 4, 359-363.	0.2	0
224	Nested silicon microring resonator with multiple coupling regimes. , 2012, , .		0
225	Design of a silicon-plasmonic hybrid electro-optic modulator. , 2012, , .		0
226	Photocurrent generation in a silicon waveguide integrated with periodically interleaved p-n junctions. , 2013, , .		0
227	Reconfigurable optical filters using self-coupled optical waveguide (SCOW) resonators. , 2013, , .		0
228	Integrated tunable silicon photonic devices for optical filter and delay applications. Proceedings of SPIE, 2013, , .	0.8	0
229	Enhanced Nonlinear Thermo-optic Effect in Silicon Microring Resonators with p-i-p Microheaters for Nonreciprocal Transmission. , 2014, , .		0
230	4 Silicon non-blocking electro-optic switches based on double-ring assisted Mach-Zehnder interferometers. , 2015, , .		0
231	Compact tunable microwave photonic filters based on cascaded microring resonators. , 2015, , .		0
232	Microdisk resonator assisted all-optical switching with improved speed using a reverse-biased p-n diode. Optics Communications, 2015, 343, 51-55.	2.1	0
233	Optical modulation in ring resonators with a single-drive push-pull MZI coupler. , 2015, , .		0
234	Silicon-based tunable optical delay lines and switches for next generation optical telecommunications. Proceedings of SPIE, 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
235	28 Gb/s BPSK Modulation in a Coupling-tuned Silicon Microring Resonator. , 2015, , .		0
236	Bragg gratings in ultra-thin silicon waveguides and hybrid plasmonic waveguides. , 2016, , .		0
237	Electro-optical switch using Ge<math>_{2}</math>Sb<math>_{2}</math>Te<math>_{5}</math> phase-change material in a silicon MZI structure. , 2017, , .		0
238	Silicon 16Å—16 switch matrix based on dual-ring assisted MZI structures with fast and energy efficient switching. , 2017, , .		0
239	High-order transverse-magnetic mode Mach-Zehnder modulator for OOK modulation. , 2018, , .		0
240	Dispersion-engineered Optical Phased Array for Aliasing-free Beam-steering with a Plateau Envelope. , 2018, , .		0
241	Silicon Photonics for Radio-Frequency Signal Processing. , 2018, , .		0
242	Aliasing-Free Beam-Steering Over the Entire Field of View Utilizing a Bent Waveguide Array with a Uniform Half-Wavelength Spacing. , 2018, , .		0
243	Integrated 5-bit Microwave Photonic Beamformer for Broadband Phased Array Antenna Applications. , 2019, , .		0
244	Repetition-Frequency-Doubled Transform-Limited Optical Pulse Generation Based on Silicon Modulators. Journal of Lightwave Technology, 2020, 38, 6299-6311.	4.6	0
245	Resonant-enhanced optical switch based on non-volatile phase change material GST. , 2021, , .		0
246	Ultra-Compact Multi-Mode Converter for Optical Delay Line Application. , 2021, , .		0
247	Fully Reconfigurable Silicon Photonic Interleaver. , 2010, , .		0
248	Reconfigurable Optical Delay Lines Based on Single Folded Waveguides. Journal of the Korean Physical Society, 2011, 58, 963-965.	0.7	0
249	Tunable Coupled-Resonator-Induced-Transparency in Cascaded Self-Coupled Optical Waveguide (SCOW) Resonators. , 2012, , .		0
250	Optical Tunable Delay Lines Based on Self-Coupled Optical Waveguide (SCOW) Resonators. , 2012, , .		0
251	Thermally-Tunable Notch Filter Based on a Mach-Zehnder Coupled Microring Resonator. , 2012, , .		0
252	Design of Traveling Wave Electrode for High-speed Silicon Modulators. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
253	Silicon Microdisk Resonator-Based Active Devices Using Embedded P-N Diodes. , 2012, , .		0
254	CMOS-compatible Athermal Tunable Silicon Optical Lattice Filters. , 2013, , .		0
255	Tunable Reflective-Type Microring Resonator Optical Delay Lines with Large bandwidth and Low Power Dissipation. , 2013, , .		0
256	16Å—16 Non-Blocking Silicon Thermo-Optic Switch with a Benes Architecture. , 2015, , .		0
257	64 Gb/s silicon QPSK modulator with single-drive push-pull traveling wave electrodes. , 2015, , .		0
258	BPSK and PAM Modulation in a Single-drive Push-pull Silicon Michelson Interferometric Modulator. , 2016, , .		0
259	Reducing Crosstalk of Silicon-based Optical Switch with All-optical Multi-wavelength Regenerator. , 2017, , .		0
260	Microwave frequency-doubling based on a coupling-modulated silicon ring resonator. , 2017, , .		0
261	Large-Scale Silicon Photonic Switches Using Electro-Optic MZIs. , 2017, , .		0
262	A silicon reconfigurable optical processor based on a self-coupled optical waveguide. , 2018, , .		0
263	Programmable universal microwave-photonic filter based on cascaded dual-ring assisted MZIs. , 2018, , .		0
264	Dispersionless time-lens with an integrated silicon nitride ring resonator. , 2019, , .		0
265	Broadband, Low-Crosstalk and Power-Efficient 32Å—32 Optical Switch on a Dual-Layer Si <sub>3</sub> N <sub>4</sub> -on-SOI Platform. , 2022, , .		0
266	System-level verification of a packaged silicon photonics-based transceiver. , 2022, , .		0
267	Silicon mode-insensitive modulator for TE <sub>0</sub> mode and TE <sub>1</sub> mode. Optics Letters, 2022, 47, 3592.	3.3	0