

Daniel J Bluementhal

List of Publications by Year in descending order

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299
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71102

41
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69250

77
g-index

300
all docs

300
docs citations

300
times ranked

3749
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low-loss high-aspect-ratio Si ₃ N ₄ waveguides. Optics Express, 2011, 19, 3163.	3.4	414
2	All-optical label swapping networks and technologies. Journal of Lightwave Technology, 2000, 18, 2058-2075.	4.6	375
3	Optical Performance Monitoring. Journal of Lightwave Technology, 2004, 22, 294-304.	4.6	372
4	Planar waveguides with less than 01 dB/m propagation loss fabricated with wafer bonding. Optics Express, 2011, 19, 24090.	3.4	367
5	Silicon Nitride in Silicon Photonics. Proceedings of the IEEE, 2018, 106, 2209-2231.	21.3	313
6	Sub-hertz fundamental linewidth photonic integrated Brillouin laser. Nature Photonics, 2019, 13, 60-67.	31.4	254
7	Photonic packet switches: architectures and experimental implementations. Proceedings of the IEEE, 1994, 82, 1650-1667.	21.3	189
8	Low-loss Si ₃ N ₄ arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides. Optics Express, 2011, 19, 14130.	3.4	173
9	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
10	A simple and robust 40-Gb/s wavelength converter using fiber cross-phase modulation and optical filtering. IEEE Photonics Technology Letters, 2000, 12, 846-848.	2.5	149
11	Tunable Laser Diodes and Related Optical Sources. , 2005, , .		132
12	422 Million intrinsic quality factor planar integrated all-waveguide resonator with sub-MHz linewidth. Nature Communications, 2021, 12, 934.	12.8	124
13	Ultra-high quality factor planar Si ₃ N ₄ ring resonators on Si substrates. Optics Express, 2011, 19, 13551.	3.4	123
14	All-optical label swapping with wavelength conversion for WDM-IP networks with subcarrier multiplexed addressing. IEEE Photonics Technology Letters, 1999, 11, 1497-1499.	2.5	116
15	An 8\$,imes,\$8 InP Monolithic Tunable Optical Router (MOTOR) Packet Forwarding Chip. Journal of Lightwave Technology, 2010, 28, 641-650.	4.6	103
16	OPERA: an optical packet experimental routing architecture with label swapping capability. Journal of Lightwave Technology, 1998, 16, 2135-2145.	4.6	102
17	A comparison of optical buffering technologies. Optical Switching and Networking, 2008, 5, 10-18.	2.0	101
18	Picosecond microwave pulse generation. Applied Physics Letters, 1981, 38, 470-472.	3.3	98

#	ARTICLE	IF	CITATIONS
19	Optical signal processing for optical packet switching networks. , 2003, 41, S23-S29.		89
20	Optical performance monitoring in reconfigurable WDM optical networks using subcarrier multiplexing. Journal of Lightwave Technology, 2000, 18, 1639-1648.	4.6	86
21	Ultra-low-loss Ta ₂ O ₅ -core/SiO ₂ -clad planar waveguides on Si substrates. Optica, 2017, 4, 532.	9.3	84
22	Three-dimensional mems photonic cross-connect switch design and performance. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 571-578.	2.9	79
23	Optical dispersion monitoring technique using double sideband subcarriers. IEEE Photonics Technology Letters, 2000, 12, 900-902.	2.5	78
24	SOA gate array recirculating buffer with fiber delay loop. Optics Express, 2008, 16, 8451.	3.4	74
25	GENI Design Principles. Computer, 2006, 39, 102-105.	1.1	70
26	Integrated Ultra-Low-Loss 4-Bit Tunable Delay for Broadband Phased Array Antenna Applications. IEEE Photonics Technology Letters, 2013, 25, 1165-1168.	2.5	70
27	Design of integrated hybrid silicon waveguide optical gyroscope. Optics Express, 2014, 22, 24988.	3.4	67
28	Photonic integration for UV to IR applications. APL Photonics, 2020, 5, .	5.7	67
29	Ultra-low loss Si ₃ N ₄ waveguides with low nonlinearity and high power handling capability. Optics Express, 2010, 18, 23562.	3.4	63
30	Arrayed narrow linewidth erbium-doped waveguide-distributed feedback lasers on an ultra-low-loss silicon-nitride platform. Optics Letters, 2013, 38, 4825.	3.3	63
31	Erbium-doped waveguide DBR and DFB laser arrays integrated within an ultra-low-loss Si ₃ N ₄ platform. Optics Express, 2014, 22, 10655.	3.4	61
32	Widely tunable monolithically integrated all-optical wavelength converters in InP. Journal of Lightwave Technology, 2005, 23, 1350-1362.	4.6	59
33	Interferometric Optical Gyroscope Based on an Integrated Si ₃ N ₄ Low-Loss Waveguide Coil. Journal of Lightwave Technology, 2018, 36, 1185-1191.	4.6	57
34	Optical SCM data extraction using a fiber-loop mirror for WDM network systems. IEEE Photonics Technology Letters, 2000, 12, 897-899.	2.5	56
35	Monolithically integrated Mach-Zehnder interferometer wavelength converter and widely tunable laser in InP. IEEE Photonics Technology Letters, 2003, 15, 1117-1119.	2.5	56
36	A racetrack mode-locked silicon evanescent laser. Optics Express, 2008, 16, 1393.	3.4	54

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37	Visible light photonic integrated Brillouin laser. Nature Communications, 2021, 12, 4685.	12.8	52
38	Integrated Resonators in an Ultralow Loss Si ₃ N ₄ /SiO ₂ Platform for Multifunction Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	51
39	Monolithic Wavelength Converters for High-Speed Packet-Switched Optical Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 49-57.	2.9	50
40	All-optical demultiplexing using fiber cross-phase modulation (XPM) and optical filtering. IEEE Photonics Technology Letters, 2001, 13, 875-877.	2.5	49
41	Integrated optical driver for interferometric optical gyroscopes. Optics Express, 2017, 25, 3826.	3.4	48
42	Demonstration of a deflection routing 2*2 photonic switch for computer interconnects. IEEE Photonics Technology Letters, 1992, 4, 169-173.	2.5	45
43	Detailed transfer matrix method-based dynamic model for multisection widely tunable GCSR lasers. Journal of Lightwave Technology, 2000, 18, 1274-1283.	4.6	43
44	Optical Packet Buffers for Backbone Internet Routers. IEEE/ACM Transactions on Networking, 2010, 18, 1599-1609.	3.8	43
45	Photonic integrated circuit optical buffer for packet-switched networks. Optics Express, 2009, 17, 6629.	3.4	42
46	Photonic switch with optically self-routed bit switching. , 1987, 25, 50-55.		41
47	WDM to OTDM multiplexing using an ultrafast all-optical wavelength converter. IEEE Photonics Technology Letters, 2001, 13, 1005-1007.	2.5	41
48	Integrated Photonics for Low-Power Packet Networking. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 458-471.	2.9	41
49	Fundamental noise dynamics in cascaded-order Brillouin lasers. Physical Review A, 2018, 98, .	2.5	41
50	12.5 Gbit/s fibre-optic network using all-optical processing. Electronics Letters, 1987, 23, 629.	1.0	40
51	Ultralow 0.034â€¦dB/m loss wafer-scale integrated photonics realizing 720 million Q and 380 Î¼W threshold Brillouin lasing. Optics Letters, 2022, 47, 1855.	3.3	38
52	Compact 160-Gb/s Addâ€“Drop Multiplexer With a 40-Gb/s Base Rate Using Electroabsorption Modulators. IEEE Photonics Technology Letters, 2004, 16, 1564-1566.	2.5	37
53	Raman-enhanced regenerative ultrafast all-optical fiber XPM wavelength converter. Journal of Lightwave Technology, 2005, 23, 1105-1115.	4.6	37
54	Multilayer Platform for Ultra-Low-Loss Waveguide Applications. IEEE Photonics Technology Letters, 2012, 24, 876-878.	2.5	37

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55	High index contrast photonic platforms for on-chip Raman spectroscopy. Optics Express, 2019, 27, 23067.	3.4	37
56	Ultralow-Loss Planar Si_3N_4 Waveguide Polarizers. IEEE Photonics Journal, 2013, 5, 6600207-6600207.	2.0	36
57	First demonstration of multihop all-optical packet switching. IEEE Photonics Technology Letters, 1994, 6, 457-460.	2.5	35
58	Fiber-optic links supporting baseband data and subcarrier-multiplexed control channels and the impact of MMIC photonic/microwave interfaces. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1443-1452.	4.6	35
59	All-optical updating of subcarrier encoded packet headers with simultaneous wavelength conversion of baseband payload in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1997, 9, 827-829.	2.5	35
60	Self-Routing Photonic Switching Demonstration With Optical Control. Optical Engineering, 1987, 26, 265473.	1.0	34
61	Wavelength routing of 40 Gbit/s packets with 2.5 Gbit/s header erasure/rewriting using all-fibre wavelength converter. Electronics Letters, 2000, 36, 345.	1.0	33
62	160 Gb/s variable length packet/10 Gb/s-label all-optical label switching with wavelength conversion and unicast/multicast operation. Journal of Lightwave Technology, 2005, 23, 211-218.	4.6	32
63	An integrated recirculating optical buffer. Optics Express, 2008, 16, 11124.	3.4	32
64	Laser fabricated GaAs waveguiding structures. Applied Physics Letters, 1989, 54, 1839-1841.	3.3	31
65	Wavelength dependence and power requirements of a wavelength converter based on XPM in a dispersion-shifted optical fiber. IEEE Photonics Technology Letters, 2000, 12, 522-524.	2.5	31
66	Directional coupler wavelength filters based on waveguides exhibiting electromagnetically induced transparency. IEEE Journal of Quantum Electronics, 2003, 39, 608-613.	1.9	31
67	Sidewall gratings in ultra-low-loss Si_3N_4 planar waveguides. Optics Express, 2013, 21, 1181.	3.4	31
68	All-Optical Contention Resolution With Wavelength Conversion for Asynchronous Variable-Length 40 Gb/s Optical Packets. IEEE Photonics Technology Letters, 2004, 16, 689-691.	2.5	30
69	BER floors due to heterodyne coherent crosstalk in space photonic switches for WDM networks. IEEE Photonics Technology Letters, 1996, 8, 284-286.	2.5	29
70	Influence of gain saturation, gain asymmetry, and pump/probe depletion on wavelength conversion efficiency of FWM in semiconductor optical amplifiers. IEEE Journal of Quantum Electronics, 1996, 32, 1810-1816.	1.9	29
71	All-Optical 160-Gb/s Phase Reconstructing Wavelength Conversion Using Cross-Phase Modulation (XPM) in Dispersion-Shifted Fiber. IEEE Photonics Technology Letters, 2004, 16, 2520-2522.	2.5	29
72	36â€‰Hz integral linewidth laser based on a photonic integrated 4.0â€‰m coil resonator. Optica, 2020, 9, 770. 29		

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73	Design and Performance of a Monolithically Integrated Widely Tunable All-Optical Wavelength Converter With Independent Phase Control. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 2299-2301.	2.5	28
74	Optically synchronized fibre links using spectrally pure chip-scale lasers. <i>Nature Photonics</i> , 2021, 15, 588-593.	31.4	28
75	Routing Packets with Light. <i>Scientific American</i> , 2001, 284, 96-99.	1.0	27
76	Pulse restoration by filtering of self-phase modulation broadened optical spectrum. <i>Journal of Lightwave Technology</i> , 2002, 20, 1113-1117.	4.6	26
77	Ultra-low loss visible light waveguides for integrated atomic, molecular, and quantum photonics. <i>Optics Express</i> , 2022, 30, 6960.	3.4	26
78	Pulse extinction ratio improvement using SPM in an SOA for OTDM systems applications. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 245-247.	2.5	24
79	Data Converter Interleaving: Current Trends and Future Perspectives. <i>IEEE Communications Magazine</i> , 2020, 58, 19-25.	6.1	24
80	Analysis of an Edge Router for Span-Constrained Optical Burst Switched (OBS) Networks. <i>Journal of Lightwave Technology</i> , 2004, 22, 2693-2705.	4.6	23
81	A single regrowth integration platform for photonic circuits incorporating tunable SGDBR lasers and quantum-well EAMs. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1630-1632.	2.5	23
82	Performance of an 8 \times 8 LiNbO ₃ switch matrix as a gigahertz self-routing switching node. <i>Electronics Letters</i> , 1987, 23, 1359.	1.0	21
83	Regenerative 80-Gb/s fiber XPM wavelength converter using a hybrid Raman/EDFA gain-enhanced configuration. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1416-1418.	2.5	21
84	40-Gb/s Optical Clock Recovery Using a Compact Traveling-Wave Electroabsorption Modulator-Based Ring Oscillator. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 1376-1378.	2.5	21
85	Integrated hybrid Si/InGaAs 50 Gb/s DQPSK receiver. <i>Optics Express</i> , 2012, 20, 19726.	3.4	21
86	Frequency-Stabilized Links for Coherent WDM Fiber Interconnects in the Datacenter. <i>Journal of Lightwave Technology</i> , 2020, 38, 3376-3386.	4.6	21
87	A novel transmitter architecture for combined baseband data and subcarrier-multiplexed control links using differential Mach-Zehnder external modulators. <i>IEEE Photonics Technology Letters</i> , 1997, 9, 1397-1399.	2.5	20
88	10-Gb/s agile wavelength conversion with nanosecond tuning times using a multisection widely tunable laser. <i>Journal of Lightwave Technology</i> , 2002, 20, 712-717.	4.6	20
89	Pulsewidth distortion monitoring in a 40-Gb/s optical system affected by PMD. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 307-309.	2.5	20
90	Frequency modulated lasers for interferometric optical gyroscopes. <i>Optics Letters</i> , 2016, 41, 1773.	3.3	20

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91	Low-loss low thermo-optic coefficient Ta2O5 on crystal quartz planar optical waveguides. APL Photonics, 2020, 5, .	5.7	20
92	Mode locked and distributed feedback silicon evanescent lasers. Laser and Photonics Reviews, 2009, 3, 355-369.	8.7	19
93	Integrated reference cavity with dual-mode optical thermometry for frequency correction. Optica, 2021, 8, 1481.	9.3	19
94	Fabrication of InP-based two-dimensional photonic crystal membrane. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 70.	1.6	18
95	40-GHz dual-mode-locked widely tunable sampled-grating DBR laser. IEEE Photonics Technology Letters, 2005, 17, 285-287.	2.5	18
96	Ultra-Low Loss Large Area Waveguide Coils for Integrated Optical Gyroscopes. IEEE Photonics Technology Letters, 2017, 29, 185-188.	2.5	18
97	Experimental demonstration of an all-optical routing node for multihop wavelength routed networks. IEEE Photonics Technology Letters, 1996, 8, 1391-1393.	2.5	17
98	High-speed optical time-division-multiplexed/WDM networks and their network elements based on regenerative all-optical ultrafast wavelength converters. Journal of Optical Networking, 2004, 3, 100.	2.5	17
99	Payload-envelope detection and label-detection integrated photonic circuit for asynchronous variable-length optical-packet switching with 40-gb/s RZ payloads and 10-gb/s NRZ labels. Journal of Lightwave Technology, 2006, 24, 3409-3417.	4.6	17
100	Monolithic Mode-Locked Laser and Optical Amplifier for Regenerative Pulsed Optical Clock Recovery. IEEE Photonics Technology Letters, 2007, 19, 641-643.	2.5	17
101	All-optical header erasure and penalty-free rewriting in a fiber-based high-speed wavelength converter. IEEE Photonics Technology Letters, 2000, 12, 663-665.	2.5	16
102	Single-Chip Wavelength Conversion Using a Photocurrent-Driven EAM Integrated With a Widely Tunable Sampled-Grating DBR Laser. IEEE Photonics Technology Letters, 2004, 16, 2093-2095.	2.5	16
103	MOSAIC: a multiwavelength optical subcarrier multiplexed controlled network. IEEE Journal on Selected Areas in Communications, 1998, 16, 1270-1285.	14.0	15
104	Optical clock recovery circuits using traveling-wave electroabsorption modulator-based ring oscillators for 3R regeneration. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 329-337.	2.9	15
105	Detailed characterization of slow and dispersive propagation near a mini-stop-band of an InP photonic crystal waveguide. Optics Express, 2005, 13, 4931.	3.4	15
106	Optical label swapping using payload envelope detection circuits. IEEE Photonics Technology Letters, 2005, 17, 1537-1539.	2.5	15
107	Variable Length Optical Packet Synchronizer. IEEE Photonics Technology Letters, 2008, 20, 1252-1254.	2.5	15
108	Cascadability properties of MZI-SOA-based all-optical 3R regenerators for RZ-DPSK signals. Optics Express, 2011, 19, 9330.	3.4	15

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109	Performance optimization of an InP-based widely tunable all-optical wavelength converter operating at 40 Gb/s. IEEE Photonics Technology Letters, 2006, 18, 577-579.	2.5	14
110	Synchronously Loaded Optical Packet Buffer. IEEE Photonics Technology Letters, 2008, 20, 1757-1759.	2.5	14
111	SOA Gate Array Recirculating Buffer for Optical Packet Switching. , 2008, , .		14
112	40-Gb/s Optical Packet Clock Recovery With Simultaneous Reshaping Using a Traveling-Wave Electroabsorption Modulator-Based Ring Oscillator. IEEE Photonics Technology Letters, 2004, 16, 2640-2642.	2.5	13
113	Programmable eye-opener lattice filter for multi-channel dispersion compensation using an integrated compact low-loss silicon nitride platform. Optics Express, 2016, 24, 16732.	3.4	13
114	Integrated Ultra-Low-Loss Silicon Nitride Waveguide Coil for Optical Gyroscopes. , 2016, , .		13
115	WDM optical IP tag switching with packet-rate wavelength conversion and subcarrier multiplexed addressing. , 0, , .		12
116	Optical mode converter integration with InP-InGaAsP active and passive waveguides using a single regrowth process. IEEE Photonics Technology Letters, 2002, 14, 1249-1251.	2.5	12
117	Multimode interference-based two-stage 1 /spl times/ 2 light splitter for compact photonic integrated circuits. IEEE Photonics Technology Letters, 2003, 15, 706-708.	2.5	12
118	Monolithic widely tunable optical packet forwarding chip in InP for all-optical label switching with 40 Gbps payloads and 10 Gbps labels. , 2005, , .		12
119	The /spl lambda/-scheduler: A multiwavelength scheduling switch. Journal of Lightwave Technology, 2000, 18, 1049-1063.	4.6	11
120	Simultaneous all-optical demultiplexing of a 40-Gb/s signal to 4 x 10 Gb/s WDM channel's using an ultrafast fiber wavelength converter. IEEE Photonics Technology Letters, 2002, 14, 1725-1727.	2.5	11
121	Simultaneous 160-Gb/s Demultiplexing and Clock Recovery by Utilizing Microwave Harmonic Frequencies in a Traveling-Wave Electroabsorption Modulator. IEEE Photonics Technology Letters, 2004, 16, 608-610.	2.5	11
122	Compact optical 3R regeneration using a traveling-wave electroabsorption modulator. IEEE Photonics Technology Letters, 2005, 17, 486-488.	2.5	11
123	Broadband Notch Filters Based on Quasi-2-D Photonic Crystal Waveguides for InP-Based Monolithic Photonic-Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1164-1174.	2.9	11
124	Ultra-low-loss Single-mode Si3N4 Waveguides with 0.7 dB/m Propagation Loss. , 2011, , .		11
125	Chip-scale optical resonator enabled synthesizer (CORES) miniature systems for optical frequency synthesis. , 2016, , .		11
126	All-optical asynchronous variable-length optically labelled 40 Gbps packet switch. , 2005, , .		11

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127	A transfer function approach to the small-signal response of saturated semiconductor optical amplifiers. <i>Journal of Lightwave Technology</i> , 2000, 18, 2151-2157.	4.6	10
128	Compact 160-Gb/s demultiplexer using a single-stage electrically gated electroabsorption modulator. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1458-1460.	2.5	10
129	2.5-Gb/s Error-Free Wavelength Conversion Using a Monolithically Integrated Widely Tunable SGDBR-SOA-MZ Transmitter and Integrated Photodetector. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 1531-1533.	2.5	10
130	All-optical packet compression of variable length packets from 40 to 1500 B using a gated fiber loop. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 322-324.	2.5	10
131	All-optical payload envelope detection for variable length 40-gb/s optically labeled packets. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1846-1848.	2.5	10
132	Single-chip, widely-tunable 10-µm Gbit/s photocurrent-driven wavelength converter incorporating a monolithically integrated laser transmitter and optical receiver. <i>Electronics Letters</i> , 2006, 42, 657.	1.0	10
133	Monolithically integrated dual-quadrature receiver on InP with 30 nm tunable local oscillator. <i>Optics Express</i> , 2011, 19, B716.	3.4	10
134	Introduction to the Special Issue on the U.S. Response to the Fukushima Accident. <i>Health Physics</i> , 2012, 102, 482-484.	0.5	10
135	Photonic Integrated Si ₃ N ₄ Ultra-Large-Area Grating Waveguide MOT Interface for 3D Atomic Clock Laser Cooling. , 2019, , .		10
136	Optical Buffering and Switching for Optical Packet Switching. , 2006, , .		9
137	Design and Operation of a Monolithically Integrated Two-Stage Tunable All-Optical Wavelength Converter. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1248-1250.	2.5	9
138	40 Gb/s Autonomous Optical Packet Synchronizer. , 2008, , .		9
139	Ultra-Long Cavity Hybrid Silicon Mode-locked Laser Diode Operating at 930 MHz. , 2010, , .		9
140	Ultra-low loss silica-based waveguides with millimeter bend radius. , 2010, , .		9
141	Coherent crosstalk in multichannel FSK/DD lightwave systems due to four-wave mixing in semiconductor optical amplifiers. <i>IEEE Photonics Technology Letters</i> , 1996, 8, 133-135.	2.5	8
142	Extinction ratio improvement by strong external light injection and SPM in an SOA for OTDM pulse source using a DBR laser diode. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1419-1421.	2.5	8
143	Photocurrent-Assisted Wavelength (PAW) Conversion With Electrical Monitoring Capability Using a Traveling-Wave Electroabsorption Modulator. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 530-532.	2.5	8
144	Dispersive phase response in optical waveguide-resonator system. <i>Applied Physics Letters</i> , 2007, 90, 191108.	3.3	8

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145	Optical Interconnect for 3D Integration of Ultra-Low Loss Planar Lightwave Circuits. , 2013, , .		8
146	State of the art: widely tunable lasers. , 1997, 3001, 382.		7
147	Accelerated aging studies of multi-section tunable GCSR lasers for dense WDM applications. Journal of Lightwave Technology, 2000, 18, 2196-2199.	4.6	7
148	40-Gb/s Polarization Multiplexed RZ-ASK-DPSK Signal Wavelength Conversion using a 32-cm Bismuth-Oxide Highly Nonlinear Fiber. , 2007, , .		7
149	A Monolithic All-Optical Push-Pull Wavelength Converter. IEEE Photonics Technology Letters, 2007, 19, 1768-1770.	2.5	7
150	High Temperature Operation of an Integrated Erbium-Doped DBR Laser on an Ultra-Low-Loss Si ₃ N ₄ Platform. , 2015, , .		7
151	Kerr Soliton Microcomb Pumped by an Integrated SBS Laser for Ultra-Low Linewidth WDM Sources. , 2020, , .		7
152	Quantum-well-intermixed monolithically integrated widely tunable all-optical wavelength converter operating at 10 Gb/s. IEEE Photonics Technology Letters, 2005, 17, 1689-1691.	2.5	6
153	Optical 2R and 3R Signal Regeneration in Combination with Dynamic Wavelength Switching Using a Monolithically Integrated, Widely Tunable Photocurrent Driven Wavelength Converter. , 2006, , .		6
154	Compact broadband photonic crystal filters with reduced back-reflections for monolithic InP-based photonic integrated circuits. IEEE Photonics Technology Letters, 2006, 18, 1155-1157.	2.5	6
155	Dual-Pump Four-Wave Mixing in Bismuth-Oxide Highly Nonlinear Fiber for Wide-Band DPSK Wavelength Conversion. , 2007, , .		6
156	Recent progress on LASOR optical router and related integrated technologies. , 2008, , .		6
157	All-Optical Clock Recovery with Retiming and Reshaping Using a Silicon Evanescent Mode Locked Ring Laser. , 2008, , .		6
158	Photonic interconnects for gigabit multicomputer communications. IEEE Lts, 1992, 3, 12-19.	0.6	5
159	Remote provisioning of a reconfigurable WDM multichannel add/drop multiplexer. IEEE Photonics Technology Letters, 1999, 11, 1060-1062.	2.5	5
160	Analog performance of an ultrafast sampled-time all-optical fiber XPM wavelength converter. IEEE Photonics Technology Letters, 2003, 15, 560-562.	2.5	5
161	Monolithically integrated InP-based tunable wavelength conversion. , 2004, 5349, 176.		5
162	Transmission measurement of tapered single-line defect photonic crystal waveguides. IEEE Photonics Technology Letters, 2005, 17, 2092-2094.	2.5	5

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163	Integrated recirculating optical hybrid silicon buffers. , 2011, , .		5
164	Compact Programmable Monolithically Integrated 10-Stage Multi-Channel WDM Dispersion Equalizer on Low-Loss Silicon Nitride Planar Waveguide Platform. , 2015, , .		5
165	Chip-Scale, Optical-Frequency-Stabilized PLL for DSP-Free, Low-Power Coherent QAM in the DCI. , 2020, , .		5
166	Extended Reach 40km Transmission of C-Band Real-Time 53.125 Gbps PAM-4 Enabled with a Photonic Integrated Tunable Lattice Filter Dispersion Compensator. , 2018, , .		5
167	<title>Multiwavelength information processing in gigabit photonic switching networks</title>. , 1992, 1787, 43.		4
168	An optical communication design laboratory. IEEE Transactions on Education, 1999, 42, 138-143.	2.4	4
169	Low power penalty 80 to 10â€¦Gbitâˆ•s OTDM demultiplexer using standing-wave enhanced electroabsorption modulator with reduced driving voltage. Electronics Letters, 2003, 39, 94.	1.0	4
170	A 40 Gb/s Asynchronous Optical Packet Buffer Based on an SOA Gate Matrix for Contention Resolution. , 2007, , .		4
171	Introduction to the Issue on High-Speed Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1-2.	2.9	4
172	Multiple wavelength generation from a mode locked silicon evanescent laser. , 2008, , .		4
173	Novel application of quantum well intermixing implant buffer layer to enable high-density photonic integrated circuits in InP. , 2009, , .		4
174	Demonstration of Contention Resolution for Labeled Packets at 40 Gb/s Using Autonomous Optical Buffers. , 2009, , .		4
175	Polarization characteristics of low-loss nano-core buried optical waveguides and directional couplers. , 2010, , .		4
176	Frequency modulated laser optical gyroscope. , 2015, , .		4
177	The first integrated optical driver chip for fiber optic gyroscopes. , 2017, , .		4
178	Integrated combs drive extreme data rates. Nature Photonics, 2018, 12, 447-450.	31.4	4
179	Photonic Chip Recirculating Buffer for Optical Packet Switching. , 2008, , .		4
180	Monolithically Integrated Dual-Quadrature Coherent Receiver on InP with 30 nm Tunable SG-DBR Local Oscillator. , 2011, , .		4

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