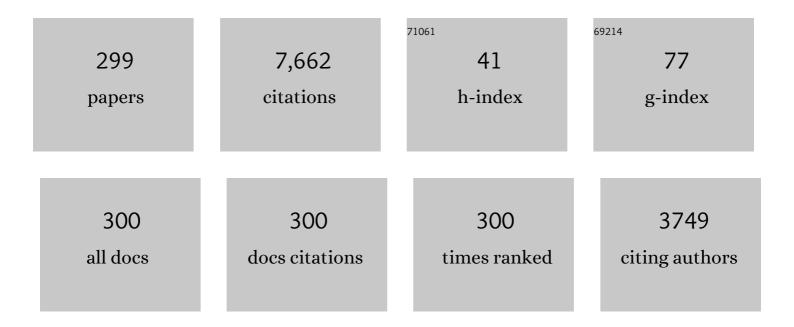
## Daniel J Bluementhal

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Ultra-low-loss high-aspect-ratio Si_3N_4 waveguides. Optics Express, 2011, 19, 3163.  | 1.7  | 414       |
| 2  | All-optical label swapping networks and technologies. Journal of Lightwave Technology, 2000, 18, 2058-2075.   | 2.7  | 375       |
| 3  | Optical Performance Monitoring. Journal of Lightwave Technology, 2004, 22, 294-304.   | 2.7  | 372       |
| 4  | Planar waveguides with less than 01 dB/m propagation loss fabricated with wafer bonding. Optics Express, 2011, 19, 24090.   | 1.7  | 367       |
| 5  | Silicon Nitride in Silicon Photonics. Proceedings of the IEEE, 2018, 106, 2209-2231.  | 16.4 | 313       |
| 6  | Sub-hertz fundamental linewidth photonic integrated Brillouin laser. Nature Photonics, 2019, 13, 60-67.   | 15.6 | 254       |
| 7  | Photonic packet switches: architectures and experimental implementations. Proceedings of the IEEE, 1994, 82, 1650-1667.   | 16.4 | 189       |
| 8  | Low-loss Si_3N_4 arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides.<br>Optics Express, 2011, 19, 14130.  | 1.7  | 173       |
| 9  | 2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.   | 2.2  | 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.          | 1.3  | 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<br>linewidth. Nature Communications, 2021, 12, 934.                           | 5.8  | 124       |
| 13 | Ultra-high quality factor planar Si_3N_4 ring resonators on Si substrates. Optics Express, 2011, 19, 13551.   | 1.7  | 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. | 1.3  | 116       |
| 15 | An 8\$,imes,\$8 InP Monolithic Tunable Optical Router (MOTOR) Packet Forwarding Chip. Journal of<br>Lightwave Technology, 2010, 28, 641-650.                              | 2.7  | 103       |
| 16 | OPERA: an optical packet experimental routing architecture with label swapping capability. Journal of<br>Lightwave Technology, 1998, 16, 2135-2145.                       | 2.7  | 102       |
| 17 | A comparison of optical buffering technologies. Optical Switching and Networking, 2008, 5, 10-18.   | 1.2  | 101       |
| 18 | Picosecond microwave pulse generation. Applied Physics Letters, 1981, 38, 470-472.  | 1.5  | 98        |

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| 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.             | 2.7 | 86        |
| 21 | Ultra-low-loss Ta_2O_5-core/SiO_2-clad planar waveguides on Si substrates. Optica, 2017, 4, 532.   | 4.8 | 84        |
| 22 | Three-dimensional mems photonic cross-connect switch design and performance. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 571-578.                 | 1.9 | 79        |
| 23 | Optical dispersion monitoring technique using double sideband subcarriers. IEEE Photonics<br>Technology Letters, 2000, 12, 900-902.                                    | 1.3 | 78        |
| 24 | SOA gate array recirculating buffer with fiber delay loop. Optics Express, 2008, 16, 8451.   | 1.7 | 74        |
| 25 | GENI Design Principles. Computer, 2006, 39, 102-105.   | 1.2 | 70        |
| 26 | Integrated Ultra-Low-Loss 4-Bit Tunable Delay for Broadband Phased Array Antenna Applications. IEEE<br>Photonics Technology Letters, 2013, 25, 1165-1168.              | 1.3 | 70        |
| 27 | Design of integrated hybrid silicon waveguide optical gyroscope. Optics Express, 2014, 22, 24988.  | 1.7 | 67        |
| 28 | Photonic integration for UV to IR applications. APL Photonics, 2020, 5, .  | 3.0 | 67        |
| 29 | Ultra-low loss Si_3N_4 waveguides with low nonlinearity and high power handling capability. Optics Express, 2010, 18, 23562.   | 1.7 | 63        |
| 30 | Arrayed narrow linewidth erbium-doped waveguide-distributed feedback lasers on an ultra-low-loss silicon-nitride platform. Optics Letters, 2013, 38, 4825.             | 1.7 | 63        |
| 31 | Erbium-doped waveguide DBR and DFB laser arrays integrated within an ultra-low-loss Si_3N_4 platform. Optics Express, 2014, 22, 10655.                                 | 1.7 | 61        |
| 32 | Widely tunable monolithically integrated all-optical wavelength converters in InP. Journal of Lightwave Technology, 2005, 23, 1350-1362.                               | 2.7 | 59        |
| 33 | Interferometric Optical Gyroscope Based on an Integrated Si3N4 Low-Loss Waveguide Coil. Journal of<br>Lightwave Technology, 2018, 36, 1185-1191.                       | 2.7 | 57        |
| 34 | Optical SCM data extraction using a fiber-loop mirror for WDM network systems. IEEE Photonics Technology Letters, 2000, 12, 897-899.                                   | 1.3 | 56        |
| 35 | Monolithically integrated Mach-Zehnder interferometer wavelength converter and widely tunable<br>laser in InP. IEEE Photonics Technology Letters, 2003, 15, 1117-1119. | 1.3 | 56        |
| 36 | A racetrack mode-locked silicon evanescent laser. Optics Express, 2008, 16, 1393.  | 1.7 | 54        |

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| 37 | Visible light photonic integrated Brillouin laser. Nature Communications, 2021, 12, 4685.  | 5.8 | 52        |
| 38 | Integrated Resonators in an Ultralow Loss Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> Platform for Multifunction Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9. | 1.9 | 51        |
| 39 | Monolithic Wavelength Converters for High-Speed Packet-Switched Optical Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 49-57.   | 1.9 | 50        |
| 40 | All-optical demultiplexing using fiber cross-phase modulation (XPM) and optical filtering. IEEE Photonics Technology Letters, 2001, 13, 875-877.   | 1.3 | 49        |
| 41 | Integrated optical driver for interferometric optical gyroscopes. Optics Express, 2017, 25, 3826.  | 1.7 | 48        |
| 42 | Demonstration of a deflection routing 2*2 photonic switch for computer interconnects. IEEE<br>Photonics Technology Letters, 1992, 4, 169-173.  | 1.3 | 45        |
| 43 | Detailed transfer matrix method-based dynamic model for multisection widely tunable GCSR lasers.<br>Journal of Lightwave Technology, 2000, 18, 1274-1283.  | 2.7 | 43        |
| 44 | Optical Packet Buffers for Backbone Internet Routers. IEEE/ACM Transactions on Networking, 2010, 18, 1599-1609.  | 2.6 | 43        |
| 45 | Photonic integrated circuit optical buffer for packet-switched networks. Optics Express, 2009, 17, 6629.   | 1.7 | 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<br>Technology Letters, 2001, 13, 1005-1007.   | 1.3 | 41        |
| 48 | Integrated Photonics for Low-Power Packet Networking. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 458-471.   | 1.9 | 41        |
| 49 | Fundamental noise dynamics in cascaded-order Brillouin lasers. Physical Review A, 2018, 98, .  | 1.0 | 41        |
| 50 | 12.5 Gbit/s fibre-optic network using all-optical processing. Electronics Letters, 1987, 23, 629.  | 0.5 | 40        |
| 51 | Ultralow 0.034â€dB/m loss wafer-scale integrated photonics realizing 720 million Q and 380 μW<br>threshold Brillouin lasing. Optics Letters, 2022, 47, 1855.   | 1.7 | 38        |
| 52 | Compact 160-Gb/s Add–Drop Multiplexer With a 40-Gb/s Base Rate Using Electroabsorption<br>Modulators. IEEE Photonics Technology Letters, 2004, 16, 1564-1566.  | 1.3 | 37        |
| 53 | Raman-enhanced regenerative ultrafast all-optical fiber XPM wavelength converter. Journal of<br>Lightwave Technology, 2005, 23, 1105-1115.   | 2.7 | 37        |
| 54 | Multilayer Platform for Ultra-Low-Loss Waveguide Applications. IEEE Photonics Technology Letters, 2012, 24, 876-878.   | 1.3 | 37        |

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|----|---|-----|-----------|
| 55 | High index contrast photonic platforms for on-chip Raman spectroscopy. Optics Express, 2019, 27, 23067.   | 1.7 | 37        |
| 56 | Ultralow-Loss Planar \$hbox{Si}_{3}hbox{N}_{4}\$ Waveguide Polarizers. IEEE Photonics Journal, 2013, 5, 6600207-6600207.  | 1.0 | 36        |
| 57 | First demonstration of multihop all-optical packet switching. IEEE Photonics Technology Letters, 1994, 6, 457-460.  | 1.3 | 35        |
| 58 | Fiber-optic links supporting baseband data and subcarrier-multiplexed control channels and the<br>impact of MMIC photonic/microwave interfaces. IEEE Transactions on Microwave Theory and<br>Techniques, 1997, 45, 1443-1452. | 2.9 | 35        |
| 59 | All-optical updating of subcarrier encoded packet headers with simultaneous wavelength conversion<br>of baseband payload in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1997, 9,<br>827-829.         | 1.3 | 35        |
| 60 | Self-Routing Photonic Switching Demonstration With Optical Control. Optical Engineering, 1987, 26, 265473.  | 0.5 | 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.  | 0.5 | 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.                                     | 2.7 | 32        |
| 63 | An integrated recirculating optical buffer. Optics Express, 2008, 16, 11124.  | 1.7 | 32        |
| 64 | Laser fabricated GaAs waveguiding structures. Applied Physics Letters, 1989, 54, 1839-1841.   | 1.5 | 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.  | 1.3 | 31        |
| 66 | Directional coupler wavelength filters based on waveguides exhibiting electromagnetically induced transparency. IEEE Journal of Quantum Electronics, 2003, 39, 608-613.   | 1.0 | 31        |
| 67 | Sidewall gratings in ultra-low-loss Si_3N_4 planar waveguides. Optics Express, 2013, 21, 1181.  | 1.7 | 31        |
| 68 | All-Optical Contention Resolution With Wavelength Conversion for Asynchronous Variable-Length<br>40 Gb/s Optical Packets. IEEE Photonics Technology Letters, 2004, 16, 689-691.   | 1.3 | 30        |
| 69 | BER floors due to heterodyne coherent crosstalk in space photonic switches for WDM networks. IEEE<br>Photonics Technology Letters, 1996, 8, 284-286.  | 1.3 | 29        |
| 70 | Influence of gain saturation, gain asymmetry, and pump/probe depletion on wavelength conversion<br>efficiency of FWM in semiconductor optical amplifiers. IEEE Journal of Quantum Electronics, 1996, 32,<br>1810-1816.        | 1.0 | 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.                                       | 1.3 | 29        |

72 36  Hz integral linewidth laser based on a photonic integrated 4.0  m coil resonator. Optica, 202**2,9**, 770. 29

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|----|--|------|-----------|
| 73 | Design and Performance of a Monolithically Integrated Widely Tunable All-Optical Wavelength<br>Converter With Independent Phase Control. IEEE Photonics Technology Letters, 2004, 16, 2299-2301.                       | 1.3  | 28        |
| 74 | Optically synchronized fibre links using spectrally pure chip-scale lasers. Nature Photonics, 2021, 15, 588-593.   | 15.6 | 28        |
| 75 | Routing Packets with Light. Scientific American, 2001, 284, 96-99.   | 1.0  | 27        |
| 76 | Pulse restoration by filtering of self-phase modulation broadened optical spectrum. Journal of<br>Lightwave Technology, 2002, 20, 1113-1117.   | 2.7  | 26        |
| 77 | Ultra-low loss visible light waveguides for integrated atomic, molecular, and quantum photonics.<br>Optics Express, 2022, 30, 6960.  | 1.7  | 26        |
| 78 | Pulse extinction ratio improvement using SPM in an SOA for OTDM systems applications. IEEE Photonics Technology Letters, 2002, 14, 245-247.  | 1.3  | 24        |
| 79 | Data Converter Interleaving: Current Trends and Future Perspectives. IEEE Communications Magazine, 2020, 58, 19-25.  | 4.9  | 24        |
| 80 | Analysis of an Edge Router for Span-Constrained Optical Burst Switched (OBS) Networks. Journal of<br>Lightwave Technology, 2004, 22, 2693-2705.  | 2.7  | 23        |
| 81 | A single regrowth integration platform for photonic circuits incorporating tunable SGDBR lasers and quantum-well EAMs. IEEE Photonics Technology Letters, 2006, 18, 1630-1632.   | 1.3  | 23        |
| 82 | Performance of an 8×8 LiNbO3switch matrix as a gigahertz self-routing switching node. Electronics<br>Letters, 1987, 23, 1359.  | 0.5  | 21        |
| 83 | Regenerative 80-Gb/s fiber XPM wavelength converter using a hybrid Raman/EDFA gain-enhanced configuration. IEEE Photonics Technology Letters, 2003, 15, 1416-1418.   | 1.3  | 21        |
| 84 | 40-Gb/s Optical Clock Recovery Using a Compact Traveling-Wave Electroabsorption Modulator-Based<br>Ring Oscillator. IEEE Photonics Technology Letters, 2004, 16, 1376-1378.  | 1.3  | 21        |
| 85 | Integrated hybrid Si/InGaAs 50 Gb/s DQPSK receiver. Optics Express, 2012, 20, 19726.   | 1.7  | 21        |
| 86 | Frequency-Stabilized Links for Coherent WDM Fiber Interconnects in the Datacenter. Journal of<br>Lightwave Technology, 2020, 38, 3376-3386.  | 2.7  | 21        |
| 87 | A novel transmitter architecture for combined baseband data and subcarrier-multiplexed control<br>links using differential Mach-Zehnder external modulators. IEEE Photonics Technology Letters, 1997,<br>9, 1397-1399. | 1.3  | 20        |
| 88 | 10-Gb/s agile wavelength conversion with nanosecond tuning times using a multisection widely tunable laser. Journal of Lightwave Technology, 2002, 20, 712-717.  | 2.7  | 20        |
| 89 | Pulsewidth distortion monitoring in a 40-Gb/s optical system affected by PMD. IEEE Photonics<br>Technology Letters, 2002, 14, 307-309.   | 1.3  | 20        |
| 90 | Frequency modulated lasers for interferometric optical gyroscopes. Optics Letters, 2016, 41, 1773.   | 1.7  | 20        |

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| 91  | Low-loss low thermo-optic coefficient Ta2O5 on crystal quartz planar optical waveguides. APL<br>Photonics, 2020, 5, .   | 3.0 | 20        |
| 92  | Mode locked and distributed feedback silicon evanescent lasers. Laser and Photonics Reviews, 2009, 3, 355-369.  | 4.4 | 19        |
| 93  | Integrated reference cavity with dual-mode optical thermometry for frequency correction. Optica, 2021, 8, 1481.   | 4.8 | 19        |
| 94  | Fabrication of InP-based two-dimensional photonic crystal membrane. Journal of Vacuum Science &<br>Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and<br>Phenomena, 2004, 22, 70.                   | 1.6 | 18        |
| 95  | 40-GHz dual-mode-locked widely tunable sampled-grating DBR laser. IEEE Photonics Technology<br>Letters, 2005, 17, 285-287.  | 1.3 | 18        |
| 96  | Ultra-Low Loss Large Area Waveguide Coils for Integrated Optical Gyroscopes. IEEE Photonics<br>Technology Letters, 2017, 29, 185-188.   | 1.3 | 18        |
| 97  | Experimental demonstration of an all-optical routing node for multihop wavelength routed networks. IEEE Photonics Technology Letters, 1996, 8, 1391-1393.   | 1.3 | 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<br>variable-length optical-packet switching with 40-gb/s RZ payloads and 10-gb/s NRZ labels. Journal of<br>Lightwave Technology, 2006, 24, 3409-3417. | 2.7 | 17        |
| 100 | Monolithic Mode-Locked Laser and Optical Amplifier for Regenerative Pulsed Optical Clock Recovery.<br>IEEE Photonics Technology Letters, 2007, 19, 641-643.   | 1.3 | 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.   | 1.3 | 16        |
| 102 | Single-Chip Wavelength Conversion Using a Photocurrent-Driven EAM Integrated With a Widely<br>Tunable Sampled-Grating DBR Laser. IEEE Photonics Technology Letters, 2004, 16, 2093-2095.  | 1.3 | 16        |
| 103 | MOSAIC: a multiwavelength optical subcarrier multiplexed controlled network. IEEE Journal on Selected Areas in Communications, 1998, 16, 1270-1285.   | 9.7 | 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.   | 1.9 | 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.  | 1.7 | 15        |
| 106 | Optical label swapping using payload envelope detection circuits. IEEE Photonics Technology Letters, 2005, 17, 1537-1539.   | 1.3 | 15        |
| 107 | Variable Length Optical Packet Synchronizer. IEEE Photonics Technology Letters, 2008, 20, 1252-1254.  | 1.3 | 15        |
| 108 | Cascadability properties of MZI-SOA-based all-optical 3R regenerators for RZ-DPSK signals. Optics<br>Express, 2011, 19, 9330.   | 1.7 | 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.   | 1.3 | 14        |
| 110 | Synchronously Loaded Optical Packet Buffer. IEEE Photonics Technology Letters, 2008, 20, 1757-1759.  | 1.3 | 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<br>Electroabsorption Modulator-Based Ring Oscillator. IEEE Photonics Technology Letters, 2004, 16,<br>2640-2642.        | 1.3 | 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.                                 | 1.7 | 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.                                       | 1.3 | 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.  | 1.3 | 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.   | 2.7 | 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.                  | 1.3 | 11        |
| 121 | Simultaneous 160-Gb/s Demultiplexing and Clock Recovery by Utilizing Microwave Harmonic<br>Frequencies in a Traveling-Wave Electroabsorption Modulator. IEEE Photonics Technology Letters,<br>2004, 16, 608-610. | 1.3 | 11        |
| 122 | Compact optical 3R regeneration using a traveling-wave electroabsorption modulator. IEEE Photonics<br>Technology Letters, 2005, 17, 486-488.   | 1.3 | 11        |
| 123 | Broadband Notch Filters Based on Quasi-2-D Photonic Crystal Waveguides for InP-Based Monolithic<br>Photonic-Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12,<br>1164-1174. | 1.9 | 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. Journal of Lightwave Technology, 2000, 18, 2151-2157.  | 2.7 | 10        |
| 128 | Compact 160-Gb/s demultiplexer using a single-stage electrically gated electroabsorption modulator.<br>IEEE Photonics Technology Letters, 2003, 15, 1458-1460.  | 1.3 | 10        |
| 129 | 2.5-Gb/s Error-Free Wavelength Conversion Using a Monolithically Integrated Widely Tunable<br>SCDBR-SOA-MZ Transmitter and Integrated Photodetector. IEEE Photonics Technology Letters, 2004, 16,<br>1531-1533. | 1.3 | 10        |
| 130 | All-optical packet compression of variable length packets from 40 to 1500 B using a gated fiber loop.<br>IEEE Photonics Technology Letters, 2006, 18, 322-324.  | 1.3 | 10        |
| 131 | All-optical payload envelope detection for variable length 40-gb/s optically labeled packets. IEEE<br>Photonics Technology Letters, 2006, 18, 1846-1848.  | 1.3 | 10        |
| 132 | Single-chip, widely-tunable 10â€Gbit/s photocurrent-driven wavelength converter incorporating a monolithically integrated laser transmitter and optical receiver. Electronics Letters, 2006, 42, 657.           | 0.5 | 10        |
| 133 | Monolithically integrated dual-quadrature receiver on InP with 30 nm tunable local oscillator.<br>Optics Express, 2011, 19, B716.   | 1.7 | 10        |
| 134 | Introduction to the Special Issue on the U.S. Response to the Fukushima Accident. Health Physics, 2012, 102, 482-484.   | 0.3 | 10        |
| 135 | Photonic Integrated Si3N4 Ultra-Large-Area Grating Waveguide MOT Interface for 3D Atomic Clock<br>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<br>Converter. IEEE Photonics Technology Letters, 2007, 19, 1248-1250.  | 1.3 | 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. IEEE Photonics Technology Letters, 1996, 8, 133-135.                                   | 1.3 | 8         |
| 142 | Extinction ratio improvement by strong external light injection and SPM in an SOA for OTDM pulse source using a DBR laser diode. IEEE Photonics Technology Letters, 2003, 15, 1419-1421.                        | 1.3 | 8         |
| 143 | Photocurrent-Assisted Wavelength (PAW) Conversion With Electrical Monitoring Capability Using a<br>Traveling-Wave Electroabsorption Modulator. IEEE Photonics Technology Letters, 2004, 16, 530-532.            | 1.3 | 8         |
| 144 | Dispersive phase response in optical waveguide-resonator system. Applied Physics Letters, 2007, 90, 191108.   | 1.5 | 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.  | 2.7 | 7         |
| 148 | 40-Gb/s Polarization Multiplexed RZ-ASK-DPSK Signal Wavelength Conversion using a 32-cm<br>Bismuth-Oxide Highly Nonlinear Fiber. , 2007, , .  |     | 7         |
| 149 | A Monolithic All-Optical Push–Pull Wavelength Converter. IEEE Photonics Technology Letters, 2007,<br>19, 1768-1770.   | 1.3 | 7         |
| 150 | High Temperature Operation of an Integrated Erbium-Doped DBR Laser on an Ultra-Low-Loss Si3N4<br>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.                   | 1.3 | 6         |
| 153 | Optical 2R and 3R Signal Regeneration in Combination with Dynamic Wavelength Switching Using a<br>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.           | 1.3 | 6         |
| 155 | Dual-Pump Four-Wave Mixing in Bismuth-Oxide Highly Nonlinear Fiber for Wide-Band DPSK Wavelength<br>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<br>Laser. , 2008, , .  |     | 6         |
| 158 | Photonic interconnects for gigabit multicomputer communications. leee Lts, 1992, 3, 12-19.  | 0.6 | 5         |
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