

# Daniel J Bluementhal

## List of Publications by Year in descending order

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299  
papers

7,662  
citations

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	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
2	Ultra-low loss visible light waveguides for integrated atomic, molecular, and quantum photonics. Optics Express, 2022, 30, 6960.	3.4	26
3	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
4	Thermal and driven noise in Brillouin lasers. Physical Review A, 2022, 105, .	2.5	4
5	Ultra-low loss silicon nitride ring modulator with low power PZT actuation for photonic control. , 2022, , .		2
6	Narrow Linewidth Lasers for Low-Energy Coherent Communications. , 2022, , .		0
7	Integrated Ultra-Narrow Linewidth Stabilized SBS Lasers. , 2022, , .		1
8	36â€‰%â€‰Hz integral linewidth laser based on a photonic integrated 4.0â€‰%â€‰m coil resonator. Optica, 2022, 9, 770. 29		0
9	422 Million intrinsic quality factor planar integrated all-waveguide resonator with sub-MHz linewidth. Nature Communications, 2021, 12, 934.	12.8	124
10	Tantalum Pentoxide Slot Waveguides for Waveguide Enhanced Raman Spectroscopy. , 2021, , .		0
11	720 Million Quality Factor Integrated All-Waveguide Photonic Resonator. , 2021, , .		2
12	Optically synchronized fibre links using spectrally pure chip-scale lasers. Nature Photonics, 2021, 15, 588-593.	31.4	28
13	Visible light photonic integrated Brillouin laser. Nature Communications, 2021, 12, 4685.	12.8	52
14	Milliwatt Threshold Ultra-Low Linewidth Photonic Integrated Si3N4 Brillouin Laser. , 2021, , .		0
15	Independently Coupled and PZT Controllable Photonic Integrated Three-Resonator Photonic Molecule. , 2021, , .		1
16	Integrated Ultra-Narrow Linewidth Ultra-Stable Brillouin Lasers and their Application to PNT Applications. , 2021, , .		2
17	Laser Frequency Drift Stabilization using an Integrated Dual-Mode Locking Si3N4 Waveguide Reference Cavity. , 2021, , .		1
18	Integrated reference cavity with dual-mode optical thermometry for frequency correction. Optica, 2021, 8, 1481.	9.3	19

#	ARTICLE	IF	CITATIONS
19	Self-Similar Ultra-High Q Si <sub>3</sub> N <sub>4</sub> Integrated Resonators for Brillouin Laser Linewidth Narrowing and Stabilization. , 2021, , .		0
20	Silicon Nitride Bus-Coupled Spiral-Ring Resonator for Dual-Mode Locking Temperature Stabilization. , 2021, , .		0
21	Low loss, low power, silicon nitride PZT stress-optic microresonator modulator for control functions. , 2021, , .		1
22	Ultra-Narrow Linewidth Frequency Stabilized Photonic Integrated Lasers. , 2021, , .		0
23	Precision Laser Stabilization using Photonic Integrated Coil Resonator. , 2021, , .		1
24	Low-loss low thermo-optic coefficient Ta <sub>2</sub> O <sub>5</sub> on crystal quartz planar optical waveguides. APL Photonics, 2020, 5, .	5.7	20
25	Data Converter Interleaving: Current Trends and Future Perspectives. IEEE Communications Magazine, 2020, 58, 19-25.	6.1	24
26	Photonic integration for UV to IR applications. APL Photonics, 2020, 5, .	5.7	67
27	Frequency-Stabilized Links for Coherent WDM Fiber Interconnects in the Datacenter. Journal of Lightwave Technology, 2020, 38, 3376-3386.	4.6	21
28	Ultra-Low Loss 698 nm and 450 nm Silicon Nitride Visible Wavelength Waveguides for Strontium Atomic Clock Applications. , 2020, , .		2
29	Low-loss D-shape Silicon Nitride Waveguides Using a Dielectric Lift-off Fabrication Process. , 2020, , .		1
30	Ultra-Narrow Linewidth Chip-Scale Heterogeneously Integrated Silicon/III-V Tunable Laser Pumped Si/Si <sub>3</sub> N <sub>4</sub> SBS Laser. , 2020, , .		2
31	Chip-Scale, Optical-Frequency-Stabilized PLL for DSP-Free, Low-Power Coherent QAM in the DCI. , 2020, , .		5
32	Kerr Soliton Microcomb Pumped by an Integrated SBS Laser for Ultra-Low Linewidth WDM Sources. , 2020, , .		7
33	Evidence of visible wavelength spontaneous Brillouin scattering in Si <sub>3</sub> N <sub>4</sub> waveguides. , 2020, , .		1
34	Frequency Stabilized Lasers for Coherent Fiber Interconnects in the Datacenter (Invited Talk). , 2019, , .		1
35	Reducing Noise in a Ring-laser Gyro Based on Stimulated Brillouin Scattering. , 2019, , .		2
36	Silicon Nitride Ring Resonators with 0.123 dB/m Loss and Q-Factors of 216 Million for Nonlinear Optical Applications. , 2019, , .		3

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37	Sub-hertz fundamental linewidth photonic integrated Brillouin laser. Nature Photonics, 2019, 13, 60-67.	31.4	254
38	Photonic Integrated Si <sub>3</sub> N <sub>4</sub> Ultra-Large-Area Grating Waveguide MOT Interface for 3D Atomic Clock Laser Cooling. , 2019, , .		10
39	High index contrast photonic platforms for on-chip Raman spectroscopy. Optics Express, 2019, 27, 23067.	3.4	37
40	Integrated Ultra-Narrow Linewidth Lasers and Their Applications. , 2019, , .		1
41	Higher Order Cascaded SBS Suppression Using Gratings in a Photonic Integrated Ring Resonator Laser. , 2019, , .		1
42	Ultra-Stable Integrated Lasers and Low-Cost, Low-Energy Coherent Data Center Interconnect. , 2019, , .		1
43	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.	2.9	51
44	Interferometric Optical Gyroscope Based on an Integrated Si <sub>3</sub> N <sub>4</sub> Low-Loss Waveguide Coil. Journal of Lightwave Technology, 2018, 36, 1185-1191.	4.6	57
45	Photonic Integration Beyond Silicon. , 2018, , .		0
46	Narrow Linewidth Stimulated Brillouin Scattering (SBS) Lasers. , 2018, , .		1
47	Silicon Nitride in Silicon Photonics. Proceedings of the IEEE, 2018, 106, 2209-2231.	21.3	313
48	Integrated combs drive extreme data rates. Nature Photonics, 2018, 12, 447-450.	31.4	4
49	Introduction to the Special Issue on Ultralow Loss Planar Waveguides and Their Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-3.	2.9	1
50	Fundamental noise dynamics in cascaded-order Brillouin lasers. Physical Review A, 2018, 98, .	2.5	41
51	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
52	Integrated Sagnac optical gyroscope sensor using ultra-low loss high aspect ratio silicon nitride waveguide coil. , 2017, , .		2
53	The first integrated optical driver chip for fiber optic gyroscopes. , 2017, , .		4
54	Effect of direct PRBS modulation on laser driven fiber optic gyroscope. , 2017, , .		2

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55	Ultra-Low Loss Large Area Waveguide Coils for Integrated Optical Gyroscopes. IEEE Photonics Technology Letters, 2017, 29, 185-188.	2.5	18
56	Ultra-Low Loss Si <sub>3</sub> N <sub>4</sub> Planar Waveguide Platform and Applications. , 2017, , .		0
57	Integrated optical driver for interferometric optical gyroscopes. Optics Express, 2017, 25, 3826.	3.4	48
58	Ultra-low-loss Ta <sub>2</sub> O <sub>5</sub> -core/SiO <sub>2</sub> -clad planar waveguides on Si substrates. Optica, 2017, 4, 532.	9.3	84
59	Ultra-low loss stitching for large-area waveguide based delay-line gyroscopes. , 2016, , .		2
60	Chip-scale optical gyros based on integrated ultra low loss waveguide coils and silicon photonic front ends. , 2016, , .		1
61	Frequency modulated lasers for interferometric optical gyroscopes. Optics Letters, 2016, 41, 1773.	3.3	20
62	Chip-scale optical resonator enabled synthesizer (CORES) miniature systems for optical frequency synthesis. , 2016, , .		11
63	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
64	Enhanced Brillouin amplification in Si. Nature Photonics, 2016, 10, 432-434.	31.4	3
65	Integrated Ultra-Low-Loss Silicon Nitride Waveguide Coil for Optical Gyroscopes. , 2016, , .		13
66	Frequency Modulate Laser Based Interferometric Optical Gyroscopes. , 2016, , .		2
67	Compact Programmable Monolithically Integrated 10-Stage Multi-Channel WDM Dispersion Equalizer on Low-Loss Silicon Nitride Planar Waveguide Platform. , 2015, , .		5
68	Frequency modulated laser optical gyroscope. , 2015, , .		4
69	Monolithically integrated dual-channel coherent receiver with widely tunable local oscillator for 100 Gbps dual-polarization quadrature phase shift keying applications. Optics Letters, 2015, 40, 4313.	3.3	1
70	High Temperature Operation of an Integrated Erbium-Doped DBR Laser on an Ultra-Low-Loss Si <sub>3</sub> N <sub>4</sub> Platform. , 2015, , .		7
71	Erbium-doped waveguide DBR and DFB laser arrays integrated within an ultra-low-loss Si <sub>3</sub> N <sub>4</sub> platform. Optics Express, 2014, 22, 10655.	3.4	61
72	Design of integrated hybrid silicon waveguide optical gyroscope. Optics Express, 2014, 22, 24988.	3.4	67

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73	Design and Testing of a Graphite Foam-Based Supercooler for High-Heat-Flux Cooling in Optoelectronic Packages. Heat Transfer Engineering, 2014, 35, 913-923.	1.9	2
74	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
75	Ultralow-Loss Planar $\text{Si}_3\text{N}_4$ Waveguide Polarizers. IEEE Photonics Journal, 2013, 5, 6600207-6600207.	2.0	36
76	Optical Interconnect for 3D Integration of Ultra-Low Loss Planar Lightwave Circuits. , 2013, , .		8
77	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
78	Sidewall gratings in ultra-low-loss $\text{Si}_3\text{N}_4$ planar waveguides. Optics Express, 2013, 21, 1181.	3.4	31
79	Demonstration of Edge Interoperability, Re-Shaping and Re-Timing using Hybrid Mode-Locking within a 40Gb/s Optical Packet Router. , 2013, , .		0
80	Analysis of WDM and OTDM 256-QAM for 1 Tb/s Transmission Link. , 2013, , .		0
81	Apodized and Un-Apodized Sidewall Grating Filters with Low Coupling Constants in Ultra-Low-Loss $\text{Si}_3\text{N}_4$ Planar Waveguides. , 2013, , .		0
82	Integrated hybrid Si/InGaAs 50 Gb/s DQPSK receiver. Optics Express, 2012, 20, 19726.	3.4	21
83	Multilayer Platform for Ultra-Low-Loss Waveguide Applications. IEEE Photonics Technology Letters, 2012, 24, 876-878.	2.5	37
84	Introduction to the Special Issue on the U.S. Response to the Fukushima Accident. Health Physics, 2012, 102, 482-484.	0.5	10
85	High Extinction, Broadband, and Low Loss Planar Waveguide Polarizers. , 2012, , .		0
86	A Comparison of Approaches for Ultra-Low-Loss Waveguides. , 2012, , .		4
87	Homodyne Dual-Quadrature Coherent Receiver with Injection-Locked Monolithically Integrated Local Oscillator. , 2012, , .		0
88	Terabit optical Ethernet for avionics. , 2011, , .		0
89	25 Gbaud DQPSK receiver integrated on the hybrid silicon platform. , 2011, , .		1
90	Ultra-low-loss high-aspect-ratio $\text{Si}_3\text{N}_4$ waveguides. Optics Express, 2011, 19, 3163.	3.4	414

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91	Cascadability properties of MZI-SOA-based all-optical 3R regenerators for RZ-DPSK signals. Optics Express, 2011, 19, 9330.	3.4	15
92	Ultra-high quality factor planar Si <sub>3</sub> N <sub>4</sub> ring resonators on Si substrates. Optics Express, 2011, 19, 13551.	3.4	123
93	Low-loss Si <sub>3</sub> N <sub>4</sub> arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides. Optics Express, 2011, 19, 14130.	3.4	173
94	Planar waveguides with less than 01 dB/m propagation loss fabricated with wafer bonding. Optics Express, 2011, 19, 24090.	3.4	367
95	Monolithically integrated dual-quadrature receiver on InP with 30 nm tunable local oscillator. Optics Express, 2011, 19, B716.	3.4	10
96	Integrated Photonics for Low-Power Packet Networking. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 458-471.	2.9	41
97	Ultra-low-loss Single-mode Si <sub>3</sub> N <sub>4</sub> Waveguides with 0.7 dB/m Propagation Loss. , 2011, , .		11
98	Hybrid silicon DQPSK receiver. , 2011, , .		1
99	Ultra-low-loss (&#38;#60; 0.1 dB/m) Planar Silica Waveguide Technology. , 2011, , .		1
100	All-optical regeneration of 25-Gb/s BPSK/DPSK signals with integrated MZI-SOA wavelength converter. , 2011, , .		3
101	Integrated recirculating optical hybrid silicon buffers. , 2011, , .		5
102	An adaptation layer for real-time interoperability between legacy 100MbE and 40Gb/s (and beyond) optical label switched networks. , 2011, , .		0
103	Terabit Optical Ethernet and Enabling Integration Technologies. , 2011, , .		1
104	8-channel InP Monolithic Tunable Optical Router for Packet Forwarding. , 2011, , .		1
105	Fabrication and Demonstration of a Pure Silica-Core Waveguide Utilizing a Density-Based Index Contrast. , 2011, , .		0
106	Photonic Integrated Circuits for Optical Routing and Switching Applications. , 2011, , .		0
107	Demonstration of Cascadability and Phase Regeneration of SOA-Based All-Optical DPSK Wavelength Converters. , 2011, , .		1
108	Demonstration of End-to-End Interoperability between Legacy 100MbE and a 40Gb/s Optical Label Switched Network Layer. , 2011, , .		0

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109	Monolithically Integrated Dual-Quadrature Coherent Receiver on InP with 30 nm Tunable SG-DBR Local Oscillator. , 2011, , .		4
110	Integrated recirculating optical buffers. , 2010, , .		1
111	Ultra-Long Cavity Hybrid Silicon Mode-locked Laser Diode Operating at 930 MHz. , 2010, , .		9
112	A Real-Time Asynchronous Dynamically Re-Sizeable Optical Buffer for Variable Length 40Gbps Optical Packets. , 2010, , .		1
113	Synchronous Optical Packet Buffers. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1413-1421.	2.9	2
114	Ultra-low loss silica-based waveguides with millimeter bend radius. , 2010, , .		9
115	Integration technologies for an 8&#x00D7;8 InP-based monolithic tunable optical router with 40GB/S line rate per port. , 2010, , .		0
116	Ultra-low loss Si <sub>3</sub> N <sub>4</sub> waveguides with low nonlinearity and high power handling capability. Optics Express, 2010, 18, 23562.	3.4	63
117	An 8\$,imes,\$8 InP Monolithic Tunable Optical Router (MOTOR) Packet Forwarding Chip. Journal of Lightwave Technology, 2010, 28, 641-650.	4.6	103
118	Optical Packet Buffers for Backbone Internet Routers. IEEE/ACM Transactions on Networking, 2010, 18, 1599-1609.	3.8	43
119	Polarization characteristics of low-loss nano-core buried optical waveguides and directional couplers. , 2010, , .		4
120	Large-Scale Photonic Integration for Advanced All-Optical Routing Functions. , 2010, , .		2
121	Asynchronous 2 <sup>Å</sup> –2 Optical Packet Synchronization, Buffering, and Forwarding. , 2010, , .		1
122	Mode locked and distributed feedback silicon evanescent lasers. Laser and Photonics Reviews, 2009, 3, 355-369.	8.7	19
123	Photonic integrated circuit optical buffer for packet-switched networks. Optics Express, 2009, 17, 6629.	3.4	42
124	Novel application of quantum well intermixing implant buffer layer to enable high-density photonic integrated circuits in InP. , 2009, , .		4
125	Technologies and systems of optical switching. , 2009, , .		0
126	Photonic technologies for an integrated optical node for avionic networks. , 2009, , .		0



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127	Demonstration of Contention Resolution for Labeled Packets at 40 Gb/s Using Autonomous Optical Buffers. , 2009, , .		4
128	End-to-End Asynchronous Optical Packet Transmission, Scheduling, and Buffering. , 2009, , .		1
129	Design and Testing of a Carbon Foam Based Supercooler for High Heat Flux Cooling in Optoelectronic Packages. , 2009, , .		0
130	Advanced photonic integrated technologies for optical routing and switching. Proceedings of SPIE, 2009, , .	0.8	2
131	Novel Fabrication of Sub-Wavelength High Aspect Ratio Metal/Dielectric Gratings on InP Semiconductor Platforms. , 2009, , .		0
132	A comparison of optical buffering technologies. Optical Switching and Networking, 2008, 5, 10-18.	2.0	101
133	Synchronously Loaded Optical Packet Buffer. IEEE Photonics Technology Letters, 2008, 20, 1757-1759.	2.5	14
134	Variable Length Optical Packet Synchronizer. IEEE Photonics Technology Letters, 2008, 20, 1252-1254.	2.5	15
135	A racetrack mode-locked silicon evanescent laser. Optics Express, 2008, 16, 1393.	3.4	54
136	SOA gate array recirculating buffer with fiber delay loop. Optics Express, 2008, 16, 8451.	3.4	74
137	An integrated recirculating optical buffer. Optics Express, 2008, 16, 11124.	3.4	32
138	Demonstration of contention resolution between two 40 Gb/s packet streams using multiple photonic chip optical buffers. , 2008, , .		1
139	Hybrid silicon photonic integrated circuits for optical networking. , 2008, , .		0
140	Reference physical layer analysis of WDM fiber optic network for aerospace platforms. , 2008, , .		0
141	Recent progress on LASOR optical router and related integrated technologies. , 2008, , .		6
142	Photonic integrated circuit switch matrix and waveguide delay lines for optical packet synchronization. , 2008, , .		3
143	Multiple wavelength generation from a mode locked silicon evanescent laser. , 2008, , .		4
144	SOA Gate Array Recirculating Buffer for Optical Packet Switching. , 2008, , .		14

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145	All-Optical Clock Recovery with Retiming and Reshaping Using a Silicon Evanescent Mode Locked Ring Laser. , 2008, , .		6
146	Silicon evanescent optical frequency comb generator. , 2008, , .		2
147	40 Gb/s Autonomous Optical Packet Synchronizer. , 2008, , .		9
148	Simulation of Sub-Wavelength Metal Gratings for On-Chip Applications in Optical Communications. , 2008, , .		0
149	Photonic Integrated Circuits for Optical Routing and Switching Applications. , 2008, , .		0
150	Photonic Integration for Optical Switching Applications. , 2008, , .		0
151	Photonic Chip Recirculating Buffer for Optical Packet Switching. , 2008, , .		4
152	Regeneration of Return-to-Zero 10 Gb/s Fiber Transmission Impairments using a Monolithically Integrated, Widely-Tunable, Photocurrent Driven Wavelength Converter. , 2007, , .		0
153	35 Gb/s Monolithic All-Optical Clock Recovery Pulse Source. , 2007, , .		3
154	Simultaneous Slow-Light Delay and Pulse Reshaping of 10Gbps RZ Data in Highly Nonlinear Fiber-based Optical Parametric Amplifier with Clock-Modulated Pump. , 2007, , .		1
155	40-Gb/s Polarization Multiplexed RZ-ASK-DPSK Signal Wavelength Conversion using a 32-cm Bismuth-Oxide Highly Nonlinear Fiber. , 2007, , .		7
156	SPM-Based 2R Regenerative 10Gbps Optically Linearly Controlled Delay Line with Ops to 170ps Tuning Range. , 2007, , .		2
157	Tunable DPSK Wavelength Converter Using an SOA-MZI Monolithically Integrated with a Sampled-Grating Distributed Bragg Reflector. , 2007, , .		2
158	Monolithically Integrated Multi-Stage All-Optical 10Gbps Push-Pull Wavelength Converter. , 2007, , .		1
159	Dispersive phase response in optical waveguide-resonator system. Applied Physics Letters, 2007, 90, 191108.	3.3	8
160	Concave Low-Loss Total Internal Reflection Mirrors in Indium Phosphide for High Fabrication Tolerance. , 2007, , .		0
161	A 40 Gb/s Asynchronous Optical Packet Buffer Based on an SOA Gate Matrix for Contention Resolution. , 2007, , .		4
162	All-Optical ASK-DPSK Signal Regeneration Using a Semiconductor Optical Amplifier. , 2007, , .		0

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163	Comparing slow-light properties of 10Gbps RZ data in dispersion shifted fibers and highly nonlinear fibers based on Raman-assisted optical parametric amplification. , 2007, , .		1
164	Monolithically integrated widely tunable 40Gbits/s wavelength converter with optical label modulation function. Journal of Optical Networking, 2007, 6, 1014.	2.5	1
165	A 10-Gb/s Monolithically Integrated Filterless InGaAsP/InP Widely Tunable Wavelength Converter With Conversion Gain. Journal of Lightwave Technology, 2007, 25, 3748-3759.	4.6	2
166	Integrated High-Performance Tunable Wavelength Converter Technologies for Future Terrestrial and Avionic Optical Networks. , 2007, , .		1
167	All-optical ASK-DPSK signal regeneration using a semiconductor optical amplifier. , 2007, , .		2
168	Dual-Pump Four-Wave Mixing in Bismuth-Oxide Highly Nonlinear Fiber for Wide-Band DPSK Wavelength Conversion. , 2007, , .		6
169	Network Layer Modeling of WDM Fiber Optic Network Architectures for Aerospace Platforms. , 2007, , .		2
170	Experimental Study of the Impact of Input Signal Suppression on the Performance of a Cascaded SOA-MZI Wavelength Converter. , 2007, , .		0
171	Analysis of Digital System Performance in EAM-Based Photocurrent Driven Wavelength Converter. IEEE Photonics Technology Letters, 2007, 19, 215-217.	2.5	1
172	Monolithic Mode-Locked Laser and Optical Amplifier for Regenerative Pulsed Optical Clock Recovery. IEEE Photonics Technology Letters, 2007, 19, 641-643.	2.5	17
173	Design and Operation of a Monolithically Integrated Two-Stage Tunable All-Optical Wavelength Converter. IEEE Photonics Technology Letters, 2007, 19, 1248-1250.	2.5	9
174	A Monolithic All-Optical Push-Pull Wavelength Converter. IEEE Photonics Technology Letters, 2007, 19, 1768-1770.	2.5	7
175	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
176	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
177	Optical Buffering and Switching for Optical Packet Switching. , 2006, , .		9
178	Demonstration of Simultaneous Multiplexing/Demultiplexing Operation of an All-Optical 2x2 Packet Switch with Asynchronous Variable-length Optically Labeled 40Gbps Packets. , 2006, , .		0
179	Optical 2R and 3R Signal Regeneration in Combination with Dynamic Wavelength Switching Using a Monolithically Integrated, Widely Tunable Photocurrent Driven Wavelength Converter. , 2006, , .		6
180	All-optical packet compression of variable length packets from 40 to 1500 B using a gated fiber loop. IEEE Photonics Technology Letters, 2006, 18, 322-324.	2.5	10

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181	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
182	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
183	A single regrowth integration platform for photonic circuits incorporating tunable SGDBR lasers and quantum-well EAMs. IEEE Photonics Technology Letters, 2006, 18, 1630-1632.	2.5	23
184	All-optical payload envelope detection for variable length 40-gb/s optically labeled packets. IEEE Photonics Technology Letters, 2006, 18, 1846-1848.	2.5	10
185	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
186	Integrated optical payload envelope detection and label recovery device for optical packet switching networks. Optics Express, 2006, 14, 5073.	3.4	2
187	Extinction ratio regeneration, signal re-amplification (2R), and broadband wavelength switching using a monolithically integrated photocurrent driven wavelength converter. Optics Express, 2006, 14, 11348.	3.4	2
188	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
189	Field modulated wavelength converters. , 2006, 6124, 364.		3
190	GENI Design Principles. Computer, 2006, 39, 102-105.	1.1	70
191	Single-chip, widely-tunable 10 Gbit/s photocurrent-driven wavelength converter incorporating a monolithically integrated laser transmitter and optical receiver. Electronics Letters, 2006, 42, 657.	1.0	10
192	Broadband return-to-zero wavelength conversion and signal regeneration using a monolithically integrated, photocurrent-driven wavelength converter. Electronics Letters, 2006, 42, 1479.	1.0	1
193	Widely tunable monolithically integrated 40 Gbit/s wavelength converter with label modulation function. Electronics Letters, 2006, 42, 1241.	1.0	2
194	Demonstration of 40 Gbit/s optical packet synchronisation using fibre Bragg gratings and fast-tunable wavelength converters. Electronics Letters, 2006, 42, 367.	1.0	2
195	All-Optical Payload Envelope Detection for Packets with 40 Gbps Payloads and 10 Gbps Labels. , 2006, , .		0
196	10 Gb/s Monolithically Integrated, Photocurrent Driven Wavelength Converter with Widely Tunable SGDBR Laser and Optical Receiver. , 2006, , .		1
197	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
198	Perspectives on the application of InP-based photonic crystal waveguides for optical signal processing. , 2005, , .		0

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199	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
200	Raman-enhanced regenerative ultrafast all-optical fiber XPM wavelength converter. Journal of Lightwave Technology, 2005, 23, 1105-1115.	4.6	37
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