

# Daniel J Bluementhal

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220  
papers

4,891  
citations

35  
h-index

61  
g-index

300  
ext. papers

6,598  
ext. citations

4  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
220	Ultra-low loss visible light waveguides for integrated atomic, molecular, and quantum photonics.. <i>Optics Express</i> , <b>2022</b> , 30, 6960-6969	3.3	3
219	Ultralow 0.034 dB/m loss wafer-scale integrated photonics realizing 720 million Q and 380 mW threshold Brillouin lasing.. <i>Optics Letters</i> , <b>2022</b> , 47, 1855-1858	3	4
218	Precision Laser Stabilization using Photonic Integrated Coil Resonator <b>2021</b> ,		1
217	Optically synchronized fibre links using spectrally pure chip-scale lasers. <i>Nature Photonics</i> , <b>2021</b> , 15, 588-593	3.9	6
216	422 Million intrinsic quality factor planar integrated all-waveguide resonator with sub-MHz linewidth. <i>Nature Communications</i> , <b>2021</b> , 12, 934	17.4	35
215	Visible light photonic integrated Brillouin laser. <i>Nature Communications</i> , <b>2021</b> , 12, 4685	17.4	11
214	Low-loss low thermo-optic coefficient Ta2O5 on crystal quartz planar optical waveguides. <i>APL Photonics</i> , <b>2020</b> , 5, 116103	5.2	7
213	Data Converter Interleaving: Current Trends and Future Perspectives. <i>IEEE Communications Magazine</i> , <b>2020</b> , 58, 19-25	9.1	8
212	Photonic integration for UV to IR applications. <i>APL Photonics</i> , <b>2020</b> , 5, 020903	5.2	31
211	. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3376-3386	4	11
210	Ultra-Low Loss 698 nm and 450 nm Silicon Nitride Visible Wavelength Waveguides for Strontium Atomic Clock Applications <b>2020</b> ,		1
209	Low-loss D-shape Silicon Nitride Waveguides Using a Dielectric Lift-off Fabrication Process <b>2020</b> ,		1
208	Ultra-Narrow Linewidth Chip-Scale Heterogeneously Integrated Silicon/III-V Tunable Laser Pumped Si/Si3N4 SBS Laser <b>2020</b> ,		2
207	Chip-Scale, Optical-Frequency-Stabilized PLL for DSP-Free, Low-Power Coherent QAM in the DCI <b>2020</b> ,		5
206	Kerr Soliton Microcomb Pumped by an Integrated SBS Laser for Ultra-Low Linewidth WDM Sources <b>2020</b> ,		5
205	Reducing Noise in a Ring-laser Gyro Based on Stimulated Brillouin Scattering <b>2019</b> ,		2
204	Photonic Integrated Si3N4 Ultra-Large-Area Grating Waveguide MOT Interface for 3D Atomic Clock Laser Cooling <b>2019</b> ,		1

203	High index contrast photonic platforms for on-chip Raman spectroscopy. <i>Optics Express</i> , <b>2019</b> , 27, 23067-23079	3.9	24
202	Integrated Ultra-Narrow Linewidth Lasers and Their Applications <b>2019</b> ,		1
201	Silicon Nitride Ring Resonators with 0.123 dB/m Loss and Q-Factors of 216 Million for Nonlinear Optical Applications <b>2019</b> ,		2
200	Sub-hertz fundamental linewidth photonic integrated Brillouin laser. <i>Nature Photonics</i> , <b>2019</b> , 13, 60-67	33.9	125
199	Integrated Resonators in an Ultralow Loss Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> Platform for Multifunction Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-9	3.8	32
198	. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1185-1191	4	28
197	Fundamental noise dynamics in cascaded-order Brillouin lasers. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	26
196	Extended Reach 40km Transmission of C-Band Real-Time 53.125 Gbps PAM-4 Enabled with a Photonic Integrated Tunable Lattice Filter Dispersion Compensator <b>2018</b> ,		2
195	Narrow Linewidth Stimulated Brillouin Scattering (SBS) Lasers <b>2018</b> ,		1
194	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 2209-2231	14.3	146
193	Integrated Sagnac optical gyroscope sensor using ultra-low loss high aspect ratio silicon nitride waveguide coil <b>2017</b> ,		1
192	Effect of direct PRBS modulation on laser driven fiber optic gyroscope <b>2017</b> ,		2
191	Ultra-Low Loss Large Area Waveguide Coils for Integrated Optical Gyroscopes. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 185-188	2.2	11
190	Integrated optical driver for interferometric optical gyroscopes. <i>Optics Express</i> , <b>2017</b> , 25, 3826-3840	3.3	24
189	Ultra-low-loss Ta <sub>2</sub> O <sub>5</sub> -core/SiO <sub>2</sub> -clad planar waveguides on Si substrates. <i>Optica</i> , <b>2017</b> , 4, 532	8.6	60
188	Chip-scale optical resonator enabled synthesizer (CORES) miniature systems for optical frequency synthesis <b>2016</b> ,		8
187	Programmable eye-opener lattice filter for multi-channel dispersion compensation using an integrated compact low-loss silicon nitride platform. <i>Optics Express</i> , <b>2016</b> , 24, 16732-42	3.3	8
186	Integrated Ultra-Low-Loss Silicon Nitride Waveguide Coil for Optical Gyroscopes <b>2016</b> ,		11

185	Frequency Modulate Laser Based Interferometric Optical Gyroscope <b>2016</b> ,			1
184	Ultra-low loss stitching for large-area waveguide based delay-line gyroscopes <b>2016</b> ,			2
183	Frequency modulated lasers for interferometric optical gyroscopes. <i>Optics Letters</i> , <b>2016</b> , 41, 1773-6	3		14
182	Monolithically integrated dual-channel coherent receiver with widely tunable local oscillator for 100 Gbps dual-polarization quadrature phase shift keying applications. <i>Optics Letters</i> , <b>2015</b> , 40, 4313-6	3		1
181	Compact Programmable Monolithically Integrated 10-Stage Multi-Channel WDM Dispersion Equalizer on Low-Loss Silicon Nitride Planar Waveguide Platform <b>2015</b> ,			2
180	Frequency modulated laser optical gyroscope <b>2015</b> ,			2
179	High Temperature Operation of an Integrated Erbium-Doped DBR Laser on an Ultra-Low-Loss Si <sub>3</sub> N <sub>4</sub> Platform <b>2015</b> ,			3
178	Erbium-doped waveguide DBR and DFB laser arrays integrated within an ultra-low-loss Si <sub>3</sub> N <sub>4</sub> platform. <i>Optics Express</i> , <b>2014</b> , 22, 10655-60	3.3		48
177	Design of integrated hybrid silicon waveguide optical gyroscope. <i>Optics Express</i> , <b>2014</b> , 22, 24988-93	3.3		46
176	Design and Testing of a Graphite Foam-Based Supercooler for High-Heat-Flux Cooling in Optoelectronic Packages. <i>Heat Transfer Engineering</i> , <b>2014</b> , 35, 913-923	1.7		2
175	Integrated Ultra-Low-Loss 4-Bit Tunable Delay for Broadband Phased Array Antenna Applications. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 1165-1168	2.2		44
174	Ultralow-Loss Planar $\text{Si}_3\text{N}_4$ Waveguide Polarizers. <i>IEEE Photonics Journal</i> , <b>2013</b> , 5, 6600207-6600207	1.8		29
173	Optical Interconnect for 3D Integration of Ultra-Low Loss Planar Lightwave Circuits <b>2013</b> ,			4
172	Arrayed narrow linewidth erbium-doped waveguide-distributed feedback lasers on an ultra-low-loss silicon-nitride platform. <i>Optics Letters</i> , <b>2013</b> , 38, 4825-8	3		48
171	Sidewall gratings in ultra-low-loss Si <sub>3</sub> N <sub>4</sub> planar waveguides. <i>Optics Express</i> , <b>2013</b> , 21, 1181-8	3.3		20
170	Integrated hybrid Si/InGaAs 50 Gb/s DQPSK receiver. <i>Optics Express</i> , <b>2012</b> , 20, 19726-34	3.3		18
169	Multilayer Platform for Ultra-Low-Loss Waveguide Applications. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 876-878	2.2		27
168	Introduction to the special issue on the U.S. Response to the Fukushima accident. Introduction. <i>Health Physics</i> , <b>2012</b> , 102, 482-4	2.3		9

167	A Comparison of Approaches for Ultra-Low-Loss Waveguides <b>2012,</b>		2
166	Ultra-low-loss high-aspect-ratio Si <sub>3</sub> N <sub>4</sub> waveguides. <i>Optics Express</i> , <b>2011</b> , 19, 3163-74	3.3	273
165	Cascadability properties of MZI-SOA-based all-optical 3R regenerators for RZ-DPSK signals. <i>Optics Express</i> , <b>2011</b> , 19, 9330-5	3.3	11
164	Ultra-high quality factor planar Si <sub>3</sub> N <sub>4</sub> ring resonators on Si substrates. <i>Optics Express</i> , <b>2011</b> , 19, 13551-6	3.3	96
163	Low-loss Si <sub>3</sub> N <sub>4</sub> arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides. <i>Optics Express</i> , <b>2011</b> , 19, 14130-6	3.3	104
162	Planar waveguides with less than 0.1 dB/m propagation loss fabricated with wafer bonding. <i>Optics Express</i> , <b>2011</b> , 19, 24090-101	3.3	247
161	Monolithically integrated dual-quadrature receiver on InP with 30 nm tunable local oscillator. <i>Optics Express</i> , <b>2011</b> , 19, B716-21	3.3	9
160	Integrated Photonics for Low-Power Packet Networking. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 458-471	3.8	31
159	25 Gbaud DQPSK receiver integrated on the hybrid silicon platform <b>2011,</b>		1
158	Ultra-low-loss Single-mode Si <sub>3</sub> N <sub>4</sub> Waveguides with 0.7 dB/m Propagation Loss <b>2011,</b>		8
157	<b>2011,</b>		1
156	All-optical regeneration of 25-Gb/s BPSK/DPSK signals with integrated MZI-SOA wavelength converter <b>2011,</b>		2
155	Integrated recirculating optical hybrid silicon buffers <b>2011,</b>		5
154	Monolithically Integrated Dual-Quadrature Coherent Receiver on InP with 30 nm Tunable SG-DBR Local Oscillator <b>2011,</b>		3
153	Ultra-low loss silica-based waveguides with millimeter bend radius <b>2010,</b>		6
152	Ultra-low loss Si <sub>3</sub> N <sub>4</sub> waveguides with low nonlinearity and high power handling capability. <i>Optics Express</i> , <b>2010</b> , 18, 23562-8	3.3	43
151	An 8\$,times,\$8 InP Monolithic Tunable Optical Router (MOTOR) Packet Forwarding Chip. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 641-650	4	76
150	. <i>IEEE/ACM Transactions on Networking</i> , <b>2010</b> , 18, 1599-1609	3.8	33

149	Polarization characteristics of low-loss nano-core buried optical waveguides and directional couplers <b>2010</b> ,		4
148	Integrated recirculating optical buffers <b>2010</b> ,		1
147	Ultra-Long Cavity Hybrid Silicon Mode-locked Laser Diode Operating at 930 MHz <b>2010</b> ,		5
146	Synchronous Optical Packet Buffers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 1413-1421	3.8	2
145	Large-Scale Photonic Integration for Advanced All-Optical Routing Functions <b>2010</b> ,		1
144	Asynchronous 2D Optical Packet Synchronization, Buffering, and Forwarding <b>2010</b> ,		1
143	Mode locked and distributed feedback silicon evanescent lasers. <i>Laser and Photonics Reviews</i> , <b>2009</b> , 3, 355-369	8.3	14
142	Photonic integrated circuit optical buffer for packet-switched networks. <i>Optics Express</i> , <b>2009</b> , 17, 6629-353	3.3	37
141	Novel application of quantum well intermixing implant buffer layer to enable high-density photonic integrated circuits in InP <b>2009</b> ,		1
140	Demonstration of Contention Resolution for Labeled Packets at 40 Gb/s Using Autonomous Optical Buffers <b>2009</b> ,		4
139	Synchronously Loaded Optical Packet Buffer. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1757-1759	2.2	5
138	Variable Length Optical Packet Synchronizer. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1252-1254	2.2	11
137	A racetrack mode-locked silicon evanescent laser. <i>Optics Express</i> , <b>2008</b> , 16, 1393-8	3.3	44
136	SOA gate array recirculating buffer with fiber delay loop. <i>Optics Express</i> , <b>2008</b> , 16, 8451-6	3.3	34
135	An integrated recirculating optical buffer. <i>Optics Express</i> , <b>2008</b> , 16, 11124-31	3.3	26
134	Demonstration of contention resolution between two 40 Gb/s packet streams using multiple photonic chip optical buffers <b>2008</b> ,		1
133	Recent progress on LASOR optical router and related integrated technologies <b>2008</b> ,		5
132	Photonic integrated circuit switch matrix and waveguide delay lines for optical packet synchronization <b>2008</b> ,		3

131	Multiple wavelength generation from a mode locked silicon evanescent laser <b>2008</b> ,		3
130	SOA Gate Array Recirculating Buffer for Optical Packet Switching <b>2008</b> ,		11
129	All-Optical Clock Recovery with Retiming and Reshaping Using a Silicon Evanescent Mode Locked Ring Laser <b>2008</b> ,		4
128	40 Gb/s Autonomous Optical Packet Synchronizer <b>2008</b> ,		5
127	A comparison of optical buffering technologies. <i>Optical Switching and Networking</i> , <b>2008</b> , 5, 10-18	1.6	72
126	Photonic Chip Recirculating Buffer for Optical Packet Switching <b>2008</b> ,		2
125	Analysis of Digital System Performance in EAM-Based Photocurrent Driven Wavelength Converter. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 215-217	2.2	1
124	Monolithic Mode-Locked Laser and Optical Amplifier for Regenerative Pulsed Optical Clock Recovery. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 641-643	2.2	10
123	Design and Operation of a Monolithically Integrated Two-Stage Tunable All-Optical Wavelength Converter. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1248-1250	2.2	3
122	A Monolithic All-Optical PushPull Wavelength Converter. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1768-1770	2.2	3
121	Monolithic Wavelength Converters for High-Speed Packet-Switched Optical Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 49-57	3.8	34
120	Introduction to the Issue on High-Speed Photonic Integrated Circuits. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 1-2	3.8	1
119	35 Gb/s Monolithic All-Optical Clock Recovery Pulse Source <b>2007</b> ,		2
118	40-Gb/s Polarization Multiplexed RZ-ASK-DPSK Signal Wavelength Conversion using a 32-cm Bismuth-Oxide Highly Nonlinear Fiber <b>2007</b> ,		4
117	Tunable DPSK Wavelength Converter Using an SOA-MZI Monolithically Integrated with a Sampled-Grating Distributed Bragg Reflector <b>2007</b> ,		1
116	Dispersive phase response in optical waveguide-resonator system. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 1911-1913	3.8	8
115	A 40 Gb/s Asynchronous Optical Packet Buffer Based on an SOA Gate Matrix for Contention Resolution <b>2007</b> ,		4
114	Monolithically integrated widely tunable 40Gbits/s wavelength converter with optical label modulation function. <i>Journal of Optical Networking</i> , <b>2007</b> , 6, 1014		1

113	. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 3748-3759	4	0
112	Dual-Pump Four-Wave Mixing in Bismuth-Oxide Highly Nonlinear Fiber for Wide-Band DPSK Wavelength Conversion <b>2007</b> ,		5
111	. <i>Computer</i> , <b>2006</b> , 39, 102-105	1.6	54
110	Single-chip, widely-tunable 10 Gbit/s photocurrent-driven wavelength converter incorporating a monolithically integrated laser transmitter and optical receiver. <i>Electronics Letters</i> , <b>2006</b> , 42, 657	1.1	9
109	Broadband return-to-zero wavelength conversion and signal regeneration using a monolithically integrated, photocurrent-driven wavelength converter. <i>Electronics Letters</i> , <b>2006</b> , 42, 1479	1.1	1
108	Widely tunable monolithically integrated 40 Gbit/s wavelength converter with label modulation function. <i>Electronics Letters</i> , <b>2006</b> , 42, 1241	1.1	2
107	Demonstration of 40 Gbit/s optical packet synchronisation using fibre Bragg gratings and fast-tunable wavelength converters. <i>Electronics Letters</i> , <b>2006</b> , 42, 367	1.1	1
106	Optical Buffering and Switching for Optical Packet Switching <b>2006</b> ,		6
105	Optical 2R and 3R Signal Regeneration in Combination with Dynamic Wavelength Switching Using a Monolithically Integrated, Widely Tunable Photocurrent Driven Wavelength Converter <b>2006</b> ,		4
104	All-optical packet compression of variable length packets from 40 to 1500 B using a gated fiber loop. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 322-324	2.2	4
103	Performance optimization of an InP-based widely tunable all-optical wavelength converter operating at 40 Gb/s. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 577-579	2.2	12
102	Compact broadband photonic crystal filters with reduced back-reflections for monolithic InP-based photonic integrated circuits. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1155-1157	2.2	5
101	A single regrowth integration platform for photonic circuits incorporating tunable SGDBR lasers and quantum-well EAMs. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1630-1632	2.2	16
100	All-optical payload envelope detection for variable length 40-gb/s optically labeled packets. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1846-1848	2.2	6
99	Broadband Notch Filters Based on Quasi-2-D Photonic Crystal Waveguides for InP-Based Monolithic Photonic-Integrated Circuits. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2006</b> , 12, 1164-1174	3.8	8
98	Integrated optical payload envelope detection and label recovery device for optical packet switching networks. <i>Optics Express</i> , <b>2006</b> , 14, 5073-8	3.3	2
97	Extinction ratio regeneration, signal re-amplification (2R), and broadband wavelength switching using a monolithically integrated photocurrent driven wavelength converter. <i>Optics Express</i> , <b>2006</b> , 14, 11348-53	3.3	2
96	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. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 3409-3417	4	8



95	Field modulated wavelength converters <b>2006</b> , 6124, 364		1
94	160 Gb/s variable length packet/10 Gb/s-label all-optical label switching with wavelength conversion and unicast/multicast operation. <i>Journal of Lightwave Technology</i> , <b>2005</b> , 23, 211-218	4	23
93	Raman-enhanced regenerative ultrafast all-optical fiber XPM wavelength converter. <i>Journal of Lightwave Technology</i> , <b>2005</b> , 23, 1105-1115	4	28
92	Widely tunable monolithically integrated all-optical wavelength converters in InP. <i>Journal of Lightwave Technology</i> , <b>2005</b> , 23, 1350-1362	4	45
91	Detailed characterization of slow and dispersive propagation near a mini-stop-band of an InP photonic crystal waveguide. <i>Optics Express</i> , <b>2005</b> , 13, 4931-8	3-3	12
90	Compact optical 3R regeneration using a traveling-wave electroabsorption modulator. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 486-488	2.2	7
89	40-GHz dual-mode-locked widely tunable sampled-grating DBR laser. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 285-287	2.2	12
88	Optical label swapping using payload envelope detection circuits. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1537-1539	2.2	8
87	Quantum-well-intermixed monolithically integrated widely tunable all-optical wavelength converter operating at 10 Gb/s. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1689-1691	2.2	4
86	Accurate measurement of high extinction ratios of ultrafast pulsed sources. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1917-1919	2.2	1
85	Transmission measurement of tapered single-line defect photonic crystal waveguides. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2092-2094	2.2	3
84	Cross-phase modulation efficiency in offset quantum-well and centered quantum-well semiconductor optical amplifiers. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2364-2366	2.2	3
83	Optical clock recovery circuits using traveling-wave electroabsorption modulator-based ring oscillators for 3R regeneration. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2005</b> , 11, 329-337 <sup>3,8</sup>		10
82	Tunable Laser Diodes and Related Optical Sources <b>2005</b> ,		90
81	Fabrication of InP-based two-dimensional photonic crystal membrane. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2004</b> , 22, 70		16
80	InP photonic crystal membrane structures: Fabrication accuracy and optical performance. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 522-524	3-4	
79	All-optical contention resolution with wavelength conversion for asynchronous variable-length 40 Gb/s optical packets. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 689-691	2.2	19
78	Photocurrent-assisted wavelength (PAW) conversion with electrical monitoring capability using a traveling-wave electroabsorption modulator. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 530-532	2.2	6

77	Simultaneous 160-Gb/s demultiplexing and clock recovery by utilizing microwave harmonic frequencies in a traveling-wave electroabsorption modulator. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 608-610	2.2	10
76	40-Gb/s optical clock recovery using a compact traveling-wave electroabsorption modulator-based ring oscillator. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1376-1378	2.2	20
75	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> , <b>2004</b> , 16, 1531-1533	2.2	7
74	Compact 160-Gb/s add-drop multiplexer with a 40-Gb/s base rate using electroabsorption modulators. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1564-1566	2.2	23
73	Single-chip wavelength conversion using a photocurrent-driven EAM integrated with a widely tunable sampled-grating DBR laser. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 2093-2095	2.2	11
72	Design and performance of a monolithically integrated widely tunable all-optical wavelength converter with independent phase control. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 2299-2301	2.2	14
71	All-optical 160-Gb/s phase reconstructing wavelength conversion using cross-phase modulation (XPM) in dispersion-shifted fiber. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 2520-2522	2.2	16
70	40-Gb/s optical packet clock recovery with simultaneous reshaping using a traveling-wave electroabsorption modulator-based ring oscillator. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 2640-2642	2.2	11
69	High-speed optical time-division-multiplexed/WDM networks and their network elements based on regenerative all-optical ultrafast wavelength converters. <i>Journal of Optical Networking</i> , <b>2004</b> , 3, 100		12
68	. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 294-304	4	246
67	Analysis of an edge router for span-constrained optical burst switched (OBS) networks. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 2693-2705	4	21
66	Monolithically integrated InP-based tunable wavelength conversion <b>2004</b> , 5349, 176		2
65	Low power penalty 80 to 10 Gbit/s OTDM demultiplexer using standing-wave enhanced electroabsorption modulator with reduced driving voltage. <i>Electronics Letters</i> , <b>2003</b> , 39, 94	1.1	4
64	Three-dimensional MEMS photonic cross-connect switch design and performance. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2003</b> , 9, 571-578	3.8	54
63	Guest editorial high-performance electronic switches/routers for high-speed internet. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2003</b> , 21, 481-485	14.2	1
62	Guest editorial high-performance optical switches/routers for high-speed internet. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2003</b> , 21, 1013-1017	14.2	1
61	Analog performance of an ultrafast sampled-time all-optical fiber XPM wavelength converter. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 560-562	2.2	3
60	Multimode interference-based two-stage 1 /spl times/ 2 light splitter for compact photonic integrated circuits. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 706-708	2.2	11

59	Monolithically integrated Mach-Zehnder interferometer wavelength converter and widely tunable laser in InP. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 1117-1119	2.2	44
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56	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> , <b>2003</b> , 15, 1419-1421	2.2	7
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53	Optical signal processing for optical packet switching networks <b>2003</b> , 41, S23-S29		60
52	Single-MMIC four-channel transmitter module for multichannel RF/optical subcarrier multiplexed communications applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2002</b> , 50, 1173-1179 <sup>1</sup>		1
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33	A transfer function approach to the small-signal response of saturated semiconductor optical amplifiers. <i>Journal of Lightwave Technology</i> , <b>2000</b> , 18, 2151-2157	4	8
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31	Wavelength dependence and power requirements of a wavelength converter based on XPM in a dispersion-shifted optical fiber. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 522-524	2.2	27
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