

Daniel J Bluementhal

List of Publications by Citations

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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 high-aspect-ratio Si ₃ N ₄ waveguides. <i>Optics Express</i> , 2011 , 19, 3163-74	3.3	273
219	All-optical label swapping networks and technologies. <i>Journal of Lightwave Technology</i> , 2000 , 18, 2058-2075		252
218	Planar waveguides with less than 0.1 dB/m propagation loss fabricated with wafer bonding. <i>Optics Express</i> , 2011 , 19, 24090-101	3.3	247
217	. <i>Journal of Lightwave Technology</i> , 2004 , 22, 294-304	4	246
216	. <i>Proceedings of the IEEE</i> , 2018 , 106, 2209-2231	14.3	146
215	. <i>Proceedings of the IEEE</i> , 1994 , 82, 1650-1667	14.3	130
214	Sub-hertz fundamental linewidth photonic integrated Brillouin laser. <i>Nature Photonics</i> , 2019 , 13, 60-67	33.9	125
213	A simple and robust 40-Gb/s wavelength converter using fiber cross-phase modulation and optical filtering. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 846-848	2.2	108
212	Low-loss Si ₃ N ₄ arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides. <i>Optics Express</i> , 2011 , 19, 14130-6	3.3	104
211	Ultra-high quality factor planar Si ₃ N ₄ ring resonators on Si substrates. <i>Optics Express</i> , 2011 , 19, 13551-6	3.3	96
210	Tunable Laser Diodes and Related Optical Sources 2005 ,		90
209	OPERA: an optical packet experimental routing architecture with label swapping capability. <i>Journal of Lightwave Technology</i> , 1998 , 16, 2135-2145	4	78
208	Picosecond microwave pulse generation. <i>Applied Physics Letters</i> , 1981 , 38, 470-472	3.4	78
207	An 8\$,times,\$8 InP Monolithic Tunable Optical Router (MOTOR) Packet Forwarding Chip. <i>Journal of Lightwave Technology</i> , 2010 , 28, 641-650	4	76
206	A comparison of optical buffering technologies. <i>Optical Switching and Networking</i> , 2008 , 5, 10-18	1.6	72
205	All-optical label swapping with wavelength conversion for WDM-IP networks with subcarrier multiplexed addressing. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 1497-1499	2.2	71
204	Optical performance monitoring in reconfigurable WDM optical networks using subcarrier multiplexing. <i>Journal of Lightwave Technology</i> , 2000 , 18, 1639-1648	4	61

203	Ultra-low-loss Ta ₂ O ₅ -core/SiO ₂ -clad planar waveguides on Si substrates. <i>Optica</i> , 2017 , 4, 532	8.6	60
202	Optical signal processing for optical packet switching networks 2003 , 41, S23-S29		60
201	. <i>Computer</i> , 2006 , 39, 102-105	1.6	54
200	Three-dimensional MEMS photonic cross-connect switch design and performance. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 571-578	3.8	54
199	Optical dispersion monitoring technique using double sideband subcarriers. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 900-902	2.2	52
198	Erbium-doped waveguide DBR and DFB laser arrays integrated within an ultra-low-loss Si ₃ N ₄ platform. <i>Optics Express</i> , 2014 , 22, 10655-60	3.3	48
197	Arrayed narrow linewidth erbium-doped waveguide-distributed feedback lasers on an ultra-low-loss silicon-nitride platform. <i>Optics Letters</i> , 2013 , 38, 4825-8	3	48
196	Design of integrated hybrid silicon waveguide optical gyroscope. <i>Optics Express</i> , 2014 , 22, 24988-93	3.3	46
195	Widely tunable monolithically integrated all-optical wavelength converters in InP. <i>Journal of Lightwave Technology</i> , 2005 , 23, 1350-1362	4	45
194	Integrated Ultra-Low-Loss 4-Bit Tunable Delay for Broadband Phased Array Antenna Applications. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1165-1168	2.2	44
193	A racetrack mode-locked silicon evanescent laser. <i>Optics Express</i> , 2008 , 16, 1393-8	3.3	44
192	Monolithically integrated Mach-Zehnder interferometer wavelength converter and widely tunable laser in InP. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1117-1119	2.2	44
191	Ultra-low loss Si ₃ N ₄ waveguides with low nonlinearity and high power handling capability. <i>Optics Express</i> , 2010 , 18, 23562-8	3.3	43
190	Optical SCM data extraction using a fiber-loop mirror for WDM network systems. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 897-899	2.2	39
189	Photonic integrated circuit optical buffer for packet-switched networks. <i>Optics Express</i> , 2009 , 17, 6629-35	3.3	37
188	Detailed transfer matrix method-based dynamic model for multisection widely tunable GCSR lasers. <i>Journal of Lightwave Technology</i> , 2000 , 18, 1274-1283	4	35
187	All-optical demultiplexing using fiber cross-phase modulation (XPM) and optical filtering. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 875-877	2.2	35
186	422 Million intrinsic quality factor planar integrated all-waveguide resonator with sub-MHz linewidth. <i>Nature Communications</i> , 2021 , 12, 934	17.4	35

185	SOA gate array recirculating buffer with fiber delay loop. <i>Optics Express</i> , 2008 , 16, 8451-6	3.3	34
184	Monolithic Wavelength Converters for High-Speed Packet-Switched Optical Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 49-57	3.8	34
183	. <i>IEEE/ACM Transactions on Networking</i> , 2010 , 18, 1599-1609	3.8	33
182	Integrated Resonators in an Ultralow Loss Si ₃ N ₄ /SiO ₂ Platform for Multifunction Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-9	3.8	32
181	Photonic integration for UV to IR applications. <i>APL Photonics</i> , 2020 , 5, 020903	5.2	31
180	Integrated Photonics for Low-Power Packet Networking. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 458-471	3.8	31
179	Ultralow-Loss Planar $\text{Si}_{3}\text{N}_{4}$ Waveguide Polarizers. <i>IEEE Photonics Journal</i> , 2013 , 5, 6600207-6600207	1.8	29
178	12.5 Gbit/s fibre-optic network using all-optical processing. <i>Electronics Letters</i> , 1987 , 23, 629	1.1	29
177	. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1185-1191	4	28
176	Raman-enhanced regenerative ultrafast all-optical fiber XPM wavelength converter. <i>Journal of Lightwave Technology</i> , 2005 , 23, 1105-1115	4	28
175	. <i>IEEE Photonics Technology Letters</i> , 1992 , 4, 169-173	2.2	28
174	Multilayer Platform for Ultra-Low-Loss Waveguide Applications. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 876-878	2.2	27
173	Fiber-optic links supporting baseband data and subcarrier-multiplexed control channels and the impact of MMIC photonic/microwave interfaces. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1997 , 45, 1443-1452	4.1	27
172	Wavelength routing of 40 Gbit/s packets with 2.5 Gbit/s header erasure/rewriting using all-fibre wavelength converter. <i>Electronics Letters</i> , 2000 , 36, 345	1.1	27
171	Wavelength dependence and power requirements of a wavelength converter based on XPM in a dispersion-shifted optical fiber. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 522-524	2.2	27
170	Fundamental noise dynamics in cascaded-order Brillouin lasers. <i>Physical Review A</i> , 2018 , 98,	2.6	26
169	An integrated recirculating optical buffer. <i>Optics Express</i> , 2008 , 16, 11124-31	3.3	26
168	WDM to OTDM multiplexing using an ultrafast all-optical wavelength converter. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 1005-1007	2.2	25

167	Influence of gain saturation, gain asymmetry, and pump/probe depletion on wavelength conversion efficiency of FWM in semiconductor optical amplifiers. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 1810-1816	2	25
166	Laser fabricated GaAs waveguiding structures. <i>Applied Physics Letters</i> , 1989 , 54, 1839-1841	3-4	25
165	Photonic switch with optically self-routed bit switching 1987 , 25, 50-55		25
164	Integrated optical driver for interferometric optical gyroscopes. <i>Optics Express</i> , 2017 , 25, 3826-3840	3-3	24
163	Directional coupler wavelength filters based on waveguides exhibiting electromagnetically induced transparency. <i>IEEE Journal of Quantum Electronics</i> , 2003 , 39, 608-613	2	24
162	High index contrast photonic platforms for on-chip Raman spectroscopy. <i>Optics Express</i> , 2019 , 27, 23067-23079	3-3	24
161	All-optical updating of subcarrier encoded packet headers with simultaneous wavelength conversion of baseband payload in semiconductor optical amplifiers. <i>IEEE Photonics Technology Letters</i> , 1997 , 9, 827-829	2.2	23
160	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> , 2005 , 23, 211-218	4	23
159	Compact 160-Gb/s add-drop multiplexer with a 40-Gb/s base rate using electroabsorption modulators. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 1564-1566	2.2	23
158	BER floors due to heterodyne coherent crosstalk in space photonic switches for WDM networks. <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 284-286	2.2	22
157	Roadmap on integrated quantum photonics. <i>JPhys Photonics</i> ,	2.5	22
156	Analysis of an edge router for span-constrained optical burst switched (OBS) networks. <i>Journal of Lightwave Technology</i> , 2004 , 22, 2693-2705	4	21
155	Pulse extinction ratio improvement using SPM in an SOA for OTDM systems applications. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 245-247	2.2	21
154	. <i>IEEE Photonics Technology Letters</i> , 1994 , 6, 457-460	2.2	21
153	Sidewall gratings in ultra-low-loss Si3N4 planar waveguides. <i>Optics Express</i> , 2013 , 21, 1181-8	3-3	20
152	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	2.2	20
151	Pulse restoration by filtering of self-phase modulation broadened optical spectrum. <i>Journal of Lightwave Technology</i> , 2002 , 20, 1113-1117	4	20
150	All-optical contention resolution with wavelength conversion for asynchronous variable-length 40 Gb/s optical packets. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 689-691	2.2	19

149	Self-Routing Photonic Switching Demonstration With Optical Control. <i>Optical Engineering</i> , 1987 , 26, 2654-73	4.3	19
148	Integrated hybrid Si/InGaAs 50 Gb/s DQPSK receiver. <i>Optics Express</i> , 2012 , 20, 19726-34	3.3	18
147	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	2.2	16
146	Fabrication of InP-based two-dimensional photonic crystal membrane. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 70		16
145	All-optical 160-Gb/s phase reconstructing wavelength conversion using cross-phase modulation (XPM) in dispersion-shifted fiber. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 2520-2522	2.2	16
144	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	16
143	Routing packets with light. <i>Scientific American</i> , 2001 , 284, 96-9	0.5	15
142	Pulsewidth distortion monitoring in a 40-Gb/s optical system affected by PMD. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 307-309	2.2	15
141	Mode locked and distributed feedback silicon evanescent lasers. <i>Laser and Photonics Reviews</i> , 2009 , 3, 355-369	8.3	14
140	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	2.2	14
139	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	2.2	14
138	Experimental demonstration of an all-optical routing node for multihop wavelength routed networks. <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 1391-1393	2.2	14
137	Frequency modulated lasers for interferometric optical gyroscopes. <i>Optics Letters</i> , 2016 , 41, 1773-6	3	14
136	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	2.2	13
135	Performance of an 88 LiNbO ₃ switch matrix as a gigahertz self-routing switching node. <i>Electronics Letters</i> , 1987 , 23, 1359	1.1	13
134	Detailed characterization of slow and dispersive propagation near a mini-stop-band of an InP photonic crystal waveguide. <i>Optics Express</i> , 2005 , 13, 4931-8	3.3	12
133	40-GHz dual-mode-locked widely tunable sampled-grating DBR laser. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 285-287	2.2	12
132	Performance optimization of an InP-based widely tunable all-optical wavelength converter operating at 40 Gb/s. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 577-579	2.2	12

131	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> , 2004 , 3, 100		12
130	. <i>Journal of Lightwave Technology</i> , 2020 , 38, 3376-3386	4	11
129	Ultra-Low Loss Large Area Waveguide Coils for Integrated Optical Gyroscopes. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 185-188	2.2	11
128	Cascadability properties of MZI-SOA-based all-optical 3R regenerators for RZ-DPSK signals. <i>Optics Express</i> , 2011 , 19, 9330-5	3.3	11
127	Variable Length Optical Packet Synchronizer. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1252-1254	2.2	11
126	SOA Gate Array Recirculating Buffer for Optical Packet Switching 2008 ,		11
125	Single-chip wavelength conversion using a photocurrent-driven EAM integrated with a widely tunable sampled-grating DBR laser. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 2093-2095	2.2	11
124	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> , 2004 , 16, 2640-2642 ²	2.2	11
123	Multimode interference-based two-stage 1 /spl times/ 2 light splitter for compact photonic integrated circuits. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 706-708	2.2	11
122	Optical mode converter integration with InP-InGaAsP active and passive waveguides using a single regrowth process. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1249-1251	2.2	11
121	All-optical header erasure and penalty-free rewriting in a fiber-based high-speed wavelength converter. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 663-665	2.2	11
120	Integrated Ultra-Low-Loss Silicon Nitride Waveguide Coil for Optical Gyroscopes 2016 ,		11
119	Visible light photonic integrated Brillouin laser. <i>Nature Communications</i> , 2021 , 12, 4685	17.4	11
118	Monolithic Mode-Locked Laser and Optical Amplifier for Regenerative Pulsed Optical Clock Recovery. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 641-643	2.2	10
117	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> , 2004 , 16, 608-610	2.2	10
116	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> , 2005 , 11, 329-337 ^{3.8}		10
115	MOSAIC: a multiwavelength optical subcarrier multiplexed controlled network. <i>IEEE Journal on Selected Areas in Communications</i> , 1998 , 16, 1270-1285	14.2	10
114	WDM optical IP tag switching with packet-rate wavelength conversion and subcarrier multiplexed addressing		10

113	Monolithically integrated dual-quadrature receiver on InP with 30 nm tunable local oscillator. <i>Optics Express</i> , 2011 , 19, B716-21	3.3	9
112	Introduction to the special issue on the U.S. Response to the Fukushima accident. Introduction. <i>Health Physics</i> , 2012 , 102, 482-4	2.3	9
111	Single-chip, widely-tunable 10 Gbit/s photocurrent-driven wavelength converter incorporating a monolithically integrated laser transmitter and optical receiver. <i>Electronics Letters</i> , 2006 , 42, 657	1.1	9
110	Data Converter Interleaving: Current Trends and Future Perspectives. <i>IEEE Communications Magazine</i> , 2020 , 58, 19-25	9.1	8
109	Chip-scale optical resonator enabled synthesizer (CORES) miniature systems for optical frequency synthesis 2016 ,		8
108	Programmable eye-opener lattice filter for multi-channel dispersion compensation using an integrated compact low-loss silicon nitride platform. <i>Optics Express</i> , 2016 , 24, 16732-42	3.3	8
107	Ultra-low-loss Single-mode Si ₃ N ₄ Waveguides with 0.7 dB/m Propagation Loss 2011 ,		8
106	Dispersive phase response in optical waveguide-resonator system. <i>Applied Physics Letters</i> , 2007 , 90, 1911-1913	1.08	8
105	Optical label swapping using payload envelope detection circuits. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1537-1539	2.2	8
104	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> , 2006 , 12, 1164-1174	3.8	8
103	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> , 2006 , 24, 3409-3417	4	8
102	Compact 160-Gb/s demultiplexer using a single-stage electrically gated electroabsorption modulator. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1458-1460	2.2	8
101	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	8
100	Low-loss low thermo-optic coefficient Ta ₂ O ₅ on crystal quartz planar optical waveguides. <i>APL Photonics</i> , 2020 , 5, 116103	5.2	7
99	Compact optical 3R regeneration using a traveling-wave electroabsorption modulator. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 486-488	2.2	7
98	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	2.2	7
97	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	2.2	7
96	Simultaneous all-optical demultiplexing of a 40-Gb/s signal to 4 x 10 Gb/s WDM channels using an ultrafast fiber wavelength converter. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1725-1727	2.2	7

95	The /spl lambda/-scheduler: A multiwavelength scheduling switch. <i>Journal of Lightwave Technology</i> , 2000 , 18, 1049-1063	4	7
94	Ultra-low loss silica-based waveguides with millimeter bend radius 2010 ,		6
93	Optical Buffering and Switching for Optical Packet Switching 2006 ,		6
92	All-optical payload envelope detection for variable length 40-gb/s optically labeled packets. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 1846-1848	2.2	6
91	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	2.2	6
90	Optically synchronized fibre links using spectrally pure chip-scale lasers. <i>Nature Photonics</i> , 2021 , 15, 588-593	3.9	6
89	Integrated recirculating optical hybrid silicon buffers 2011 ,		5
88	Ultra-Long Cavity Hybrid Silicon Mode-locked Laser Diode Operating at 930 MHz 2010 ,		5
87	Synchronously Loaded Optical Packet Buffer. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1757-1759	2.2	5
86	Recent progress on LASOR optical router and related integrated technologies 2008 ,		5
85	40 Gb/s Autonomous Optical Packet Synchronizer 2008 ,		5
84	Dual-Pump Four-Wave Mixing in Bismuth-Oxide Highly Nonlinear Fiber for Wide-Band DPSK Wavelength Conversion 2007 ,		5
83	Compact broadband photonic crystal filters with reduced back-reflections for monolithic InP-based photonic integrated circuits. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 1155-1157	2.2	5
82	Accelerated aging studies of multi-section tunable GCSR lasers for dense WDM applications. <i>Journal of Lightwave Technology</i> , 2000 , 18, 2196-2199	4	5
81	Chip-Scale, Optical-Frequency-Stabilized PLL for DSP-Free, Low-Power Coherent QAM in the DCI 2020 ,		5
80	Kerr Soliton Microcomb Pumped by an Integrated SBS Laser for Ultra-Low Linewidth WDM Sources 2020 ,		5
79	Optical Interconnect for 3D Integration of Ultra-Low Loss Planar Lightwave Circuits 2013 ,		4
78	Polarization characteristics of low-loss nano-core buried optical waveguides and directional couplers 2010 ,		4

77	Demonstration of Contention Resolution for Labeled Packets at 40 Gb/s Using Autonomous Optical Buffers 2009 ,		4
76	State of the art: widely tunable lasers 1997 , 3001, 382		4
75	All-Optical Clock Recovery with Retiming and Reshaping Using a Silicon Evanescent Mode Locked Ring Laser 2008 ,		4
74	40-Gb/s Polarization Multiplexed RZ-ASK-DPSK Signal Wavelength Conversion using a 32-cm Bismuth-Oxide Highly Nonlinear Fiber 2007 ,		4
73	A 40 Gb/s Asynchronous Optical Packet Buffer Based on an SOA Gate Matrix for Contention Resolution 2007 ,		4
72	Quantum-well-intermixed monolithically integrated widely tunable all-optical wavelength converter operating at 10 Gb/s. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1689-1691	2.2	4
71	Optical 2R and 3R Signal Regeneration in Combination with Dynamic Wavelength Switching Using a Monolithically Integrated, Widely Tunable Photocurrent Driven Wavelength Converter 2006 ,		4
70	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	2.2	4
69	Low power penalty 80 to 10 Gbit/s OTDM demultiplexer using standing-wave enhanced electroabsorption modulator with reduced driving voltage. <i>Electronics Letters</i> , 2003 , 39, 94	1.1	4
68	An optical communication design laboratory. <i>IEEE Transactions on Education</i> , 1999 , 42, 138-143	2.1	4
67	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	2.2	4
66	. <i>IEEE Lts</i> , 1992 , 3, 12-19		4
65	Ultralow 0.034 dB/m loss wafer-scale integrated photonics realizing 720 million Q and 380 W threshold Brillouin lasing.. <i>Optics Letters</i> , 2022 , 47, 1855-1858	3	4
64	Photonic integrated circuit switch matrix and waveguide delay lines for optical packet synchronization 2008 ,		3
63	Multiple wavelength generation from a mode locked silicon evanescent laser 2008 ,		3
62	Design and Operation of a Monolithically Integrated Two-Stage Tunable All-Optical Wavelength Converter. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1248-1250	2.2	3
61	A Monolithic All-Optical PushPull Wavelength Converter. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1768-1770	2.2	3
60	Transmission measurement of tapered single-line defect photonic crystal waveguides. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2092-2094	2.2	3

59	Cross-phase modulation efficiency in offset quantum-well and centered quantum-well semiconductor optical amplifiers. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2364-2366	2.2	3
58	Analog performance of an ultrafast sampled-time all-optical fiber XPM wavelength converter. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 560-562	2.2	3
57	Remote provisioning of a reconfigurable WDM multichannel add/drop multiplexer. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 1060-1062	2.2	3
56	Ultra-low loss visible light waveguides for integrated atomic, molecular, and quantum photonics.. <i>Optics Express</i> , 2022 , 30, 6960-6969	3.3	3
55	Wavelength Multicasting Using an Ultra High-Speed All-Optical Wavelength Converter 2001 ,		3
54	High Temperature Operation of an Integrated Erbium-Doped DBR Laser on an Ultra-Low-Loss Si3N4 Platform 2015 ,		3
53	Monolithically Integrated Dual-Quadrature Coherent Receiver on InP with 30 nm Tunable SG-DBR Local Oscillator 2011 ,		3
52	Effect of direct PRBS modulation on laser driven fiber optic gyroscope 2017 ,		2
51	Reducing Noise in a Ring-laser Gyro Based on Stimulated Brillouin Scattering 2019 ,		2
50	Compact Programmable Monolithically Integrated 10-Stage Multi-Channel WDM Dispersion Equalizer on Low-Loss Silicon Nitride Planar Waveguide Platform 2015 ,		2
49	Frequency modulated laser optical gyroscope 2015 ,		2
48	Design and Testing of a Graphite Foam-Based Supercooler for High-Heat-Flux Cooling in Optoelectronic Packages. <i>Heat Transfer Engineering</i> , 2014 , 35, 913-923	1.7	2
47	All-optical regeneration of 25-Gb/s BPSK/DPSK signals with integrated MZI-SOA wavelength converter 2011 ,		2
46	Synchronous Optical Packet Buffers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 1413-1421	3.8	2
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