

# Sophie LaRoche

## List of Publications by Year in descending order

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375  
papers

6,050  
citations

81743

39  
h-index

106150

65  
g-index

375  
all docs

375  
docs citations

375  
times ranked

3269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multicore Cladding-Pumped Fiber Amplifier With Annular Erbium Doping for Low Gain Compression. <i>Journal of Lightwave Technology</i> , 2022, 40, 1836-1846.	2.7	6
2	Nonlinearity Reduction in a Fiber Fabry-Perot Interferometer Interrogated by a Wavelength Scanning Optical Source. <i>IEEE Sensors Journal</i> , 2022, 22, 9433-9439.	2.4	5
3	Concentric layers with heterogeneous doping for cladding-pumped L-band fiber amplifiers. , 2022, , .		1
4	Tunable distributed sensing performance in Ca-based nanoparticle-doped optical fibers. <i>Optical Materials Express</i> , 2022, 12, 1323.	1.6	12
5	Modal Loss Characterisation of Thick Ring Core Fiber Using Perfect Vortex Beams. , 2022, , .		5
6	Low Cost Solution for Super L-Band Fiber Amplifier based on Single-mode and Multi-mode Hybrid Pumping Scheme. , 2022, , .		3
7	Large area Bragg grating for pump recycling in cladding-pumped multicore erbium-doped fiber amplifiers. <i>Optics Express</i> , 2022, 30, 17824.	1.7	2
8	Machine Learning Implementation for Unambiguous Refractive Index Measurement Using a Self-Referenced Fiber Refractometer. <i>IEEE Sensors Journal</i> , 2022, 22, 14134-14141.	2.4	9
9	Raman-Kerr Combs in High-Q Chalcogenide Microresonators Coupled to Silicon Waveguides. , 2021, , .		1
10	Quantifying the Coupling and Degeneracy of OAM Modes in High-Index-Contrast Ring Core Fiber. <i>Journal of Lightwave Technology</i> , 2021, 39, 600-611.	2.7	21
11	Sulfur-rich chalcogenide claddings for athermal and high-Q silicon microring resonators. <i>Optical Materials Express</i> , 2021, 11, 913.	1.6	13
12	Mode-conversion-based silicon photonic modulator loaded by a combination of lateral and interleaved p-n junctions. <i>Photonics Research</i> , 2021, 9, 471.	3.4	5
13	Engineering nanoparticle features to tune Rayleigh scattering in nanoparticles-doped optical fibers. <i>Scientific Reports</i> , 2021, 11, 9116.	1.6	38
14	Radially anisotropic ring-core optical fiber: towards vector-vortex guided transmission using the full modal space. <i>OSA Continuum</i> , 2021, 4, 1282.	1.8	1
15	Efficiency-Speed Tradeoff in Slow-Light Silicon Photonic Modulators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	1.9	8
16	Widely tunable silicon Raman laser. <i>Optica</i> , 2021, 8, 804.	4.8	23
17	Silicon subwavelength grating waveguides with high-index chalcogenide glass cladding. <i>Optics Express</i> , 2021, 29, 20851.	1.7	6
18	Silicon-coupled tantalum pentoxide microresonators with broadband low thermo-optic coefficient. <i>Optics Letters</i> , 2021, 46, 3813.	1.7	1

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19	Universal micro-trench resonators for monolithic integration with silicon waveguides. Optical Materials Express, 2021, 11, 2753.	1.6	3
20	DAC-Less PAM-4 Slow-Light Silicon Photonic Modulator Providing High Efficiency and Stability. Journal of Lightwave Technology, 2021, 39, 5074-5082.	2.7	4
21	Hybrid Chalcogenide-Silicon Subwavelength Grating Waveguides Microring Resonators. , 2021, , .		0
22	DAC-Less PAM-4 Slow-Light Silicon Photonic Modulator Assisted by Coupled Bragg Grating Resonators. , 2021, , .		1
23	Cladding-pumped multicore amplifiers with ring doping. , 2021, , .		1
24	Templated dewetting for self-assembled ultra-low-loss chalcogenide integrated photonics. Optical Materials Express, 2021, 11, 3717.	1.6	6
25	Ring-Core Fibers Supporting Propagation of OAM Modes. , 2021, , .		0
26	Frequency noise study in a silicon Raman laser. , 2021, , .		0
27	Hybrid integration of tantalum pentoxide microresonators on silicon-on-insulator. , 2021, , .		0
28	Design Analysis of OAM Fibers Using Particle Swarm Optimization Algorithm. Journal of Lightwave Technology, 2020, 38, 846-856.	2.7	23
29	Slow Light in Subwavelength Grating Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	1.9	18
30	Modeling and Characterization of Cladding-Pumped Erbium-Ytterbium Co-Doped Fibers for Amplification in Communication Systems. Journal of Lightwave Technology, 2020, 38, 1936-1944.	2.7	11
31	Integrated Optical SSB Modulation / Frequency Shifting Using Cascaded Silicon MZM. IEEE Photonics Technology Letters, 2020, 32, 1147-1150.	1.3	4
32	Investigation of Bi-Directionally, Dual-Wavelength Pumped Extended L-Band EDFAs. IEEE Photonics Technology Letters, 2020, 32, 1227-1230.	1.3	12
33	Design and modeling a mid infrared Raman laser on silicon-on-insulator. , 2020, , .		1
34	Performance Comparison of Ring-Core Fibers Support Propagation of OAM Modes. , 2020, , .		0
35	Silicon photonic modulator loaded by NPN junctions. , 2020, , .		0
36	Comprehensive modeling and design of Raman lasers on SOI for mid-infrared application. Journal of Lightwave Technology, 2020, , 1-1.	2.7	6

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37	Mach-Zehnder Silicon Photonic Modulator Assisted by Phase-Shifted Bragg Gratings. IEEE Photonics Technology Letters, 2020, 32, 445-448.	1.3	29
38	Real-time gap-free dynamic waveform spectral analysis with nanosecond resolutions through analog signal processing. Nature Communications, 2020, 11, 3309.	5.8	42
39	Investigation of C-band pumping for extended L-band EDFAs. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2345.	0.9	14
40	Highly elliptical core fiber with stress-induced birefringence for mode multiplexing. Optics Letters, 2020, 45, 2822.	1.7	14
41	Etchless chalcogenide microresonators monolithically coupled to silicon photonic waveguides. Optics Letters, 2020, 45, 2830.	1.7	23
42	Fuseless side-pump combiner for efficient fluoride-based double-clad fiber pumping. Optics Letters, 2020, 45, 5828.	1.7	21
43	Modeling the Breakdown in Degeneracy for High-Index-Contrast Ring Core Fiber. , 2020, , .		3
44	A model for electro-optic response of slow-light silicon photonic modulators with lumped electrodes. , 2020, , .		0
45	Silicon photonic modulator loaded by a combination of lateral and interleaved p-n junctions. , 2020, , .		0
46	Ultra-High-Speed Time-Frequency Signal Processing. Optics and Photonics News, 2020, 31, 37.	0.4	0
47	Characterization of an Aluminophosphosilicate Fiber with Annular Erbium Doping for Improved Performance of Cladding-Pumped Amplifiers. , 2020, , .		1
48	Novel Fuseless Optical Fiber Side-Coupler based on Half-Taper for Cladding Pumped EDFAs. , 2020, , .		2
49	Downconversion-Free Real-time Spectral Analysis of High-Frequency Broadband Waveforms. , 2020, , .		0
50	Two-channel data transmission on a polarization-maintaining highly elliptical core fiber without MIMO. , 2020, , .		1
51	Design of Fibers with Erbium-Ring-Doping in the Cladding for Spatially Integrated Optical Amplifiers. , 2020, , .		0
52	High-Efficiency Silicon Photonic Modulator Using Coupled Bragg Grating Resonators. Journal of Lightwave Technology, 2019, 37, 2065-2075.	2.7	15
53	Design of Highly Elliptical Core Ten-Mode Fiber for Space Division Multiplexing With 2 $\times$ 2 MIMO. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	17
54	An 8-core erbium-doped fiber with annular doping for low gain compression in cladding-pumped amplifiers. , 2019, , .		2

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55	Tunable Slow-Light in Silicon Photonic Subwavelength Grating Waveguides. , 2019, , .		1
56	Design of Slow-Light Subwavelength Grating Waveguides for Enhanced On-Chip Methane Sensing by Absorption Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	1.9	32
57	Characterization of Coupled-Core Fiber Amplifiers Using Swept-Wavelength Interferometer. , 2019, , .		1
58	Silicon Photonic Modulator Using Coupled Bragg Grating Resonators in a Mach-Zehnder structure. , 2019, , .		1
59	Tunable Slow-Light in Silicon Photonic Subwavelength Grating Waveguides. , 2019, , .		1
60	Mode Loss Measurement in Few-Mode Fibers With a Microwave Interferometric Technique. IEEE Photonics Technology Letters, 2018, 30, 581-584.	1.3	6
61	Corrections to "Mode Loss Measurement in Few-Mode Fibers With a Microwave Interferometric Technique" [Mar 15, 2018 581-584]. IEEE Photonics Technology Letters, 2018, 30, 1491-1491.	1.3	0
62	Cladding Pumped Multi-Core Fiber Amplifiers for Space Division Multiplexing. , 2018, , .		3
63	Silicon Photonic Modulator using Mode Conversion with Asymmetric Sidewall Bragg Gratings. , 2018, , .		0
64	Design of a Ten-Mode Polarization-Maintaining Few-Mode Fiber for MIMO-Less Data Transmission. , 2018, , .		3
65	Demonstration of an erbium-doped fiber with annular doping for low gain compression in cladding-pumped amplifiers. Optics Express, 2018, 26, 26633.	1.7	13
66	Silicon photonic modulators for PAM transmissions. Journal of Optics (United Kingdom), 2018, 20, 083002.	1.0	42
67	Subwavelength-grating contradirectional couplers for large stopband filters. Optics Letters, 2018, 43, 895.	1.7	32
68	Integrated flexible-grid WDM transmitter using an optical frequency comb in microring modulators. Optics Letters, 2018, 43, 1554.	1.7	26
69	RoF Data Transmission Using Four Linearly Polarized Vector Modes of a Polarization Maintaining Elliptical Ring Core Fiber. Journal of Lightwave Technology, 2018, 36, 3794-3801.	2.7	8
70	Optical fiber designs for MIMO-less SDM. , 2018, , .		1
71	Fiber transmission demonstrations in vector mode space division multiplexing. Frontiers of Optoelectronics, 2018, 11, 155-162.	1.9	4
72	Cladding Pumped EDFAs with Annular Erbium Doping. , 2018, , .		3

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73	Enabling 5G Services in PON with a Novel Smart Edge Based on SiP MRM. , 2018, , .		2
74	Silicon Photonic Modulator based on Coupled Bragg Grating Resonators used as Phase Shifters. , 2018, , .		0
75	Four-Channel RoF Transmission over Polarization Maintaining Elliptical Ring Core Fiber. , 2018, , .		1
76	Pump Mode Characterization of Annular Cladding Erbium-Doped Fibers Using Low-Coherence Interferometry. , 2018, , .		0
77	A Single-laser Flexible-grid WDM Silicon Photonic Transmitter using Microring Modulators. , 2018, , .		8
78	Polarization maintaining few mode fibers for space division multiplexing. , 2018, , .		1
79	Large-signal capabilities of an optically injection-locked semiconductor laser using gain lever. , 2018, , .		0
80	Reconfigurable single-shot incoherent optical signal processing system for chirped microwave signal compression. Science Bulletin, 2017, 62, 242-248.	4.3	16
81	Integrated optical fiber amplifiers for space-division multiplexed systems. Proceedings of SPIE, 2017, , .	0.8	0
82	The Brillouin gain of vector modes in a few-mode fiber. Scientific Reports, 2017, 7, 1552.	1.6	17
83	All-Optical Pulse Shaping in the Sub-Picosecond Regime Based on Fiber Grating Devices. , 2017, , 257-292.		1
84	The Impact of Modal Interactions on Receiver Complexity in OAM Fibers. Journal of Lightwave Technology, 2017, 35, 4692-4699.	2.7	12
85	Spatially and Spectrally Resolved Gain Characterization of Space-Division Multiplexing Amplifiers With Coherent Swept-Wavelength Reflectometry. Journal of Lightwave Technology, 2017, 35, 741-747.	2.7	2
86	Demonstration and Evaluation of an Optimized RFS Comb for Terabit Flexible Optical Networks. Journal of Optical Communications and Networking, 2017, 9, 739.	3.3	5
87	Linearly polarized vector modes: enabling MIMO-free mode-division multiplexing. Optics Express, 2017, 25, 11736.	1.7	78
88	Effects of gain nonlinearities in an optically injected gain lever semiconductor laser. Photonics Research, 2017, 5, 315.	3.4	2
89	MIMO-Free Transmission over Six Vector Modes in a Polarization Maintaining Elliptical Ring Core Fiber. , 2017, , .		13
90	Wearable Contactless Respiration Sensor Based on Multi-Material Fibers Integrated into Textile. Sensors, 2017, 17, 1050.	2.1	41

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91	Talbot Laser with Tunable GHz Repetition Rate using an Electro-Optic Frequency Shifter. , 2017, , .		8
92	Low-noise Optical Multi-Carrier Generation using Brillouin Amplification in a Frequency-Shifted Recirculating Loop. , 2017, , .		2
93	Parasitic Effect of TE and TM modes in OAM-MDM Transmission Systems. , 2017, , .		3
94	3.36-Tbit/s OAM and Wavelength Multiplexed Transmission over an Inverse-Parabolic Graded Index Fiber. , 2017, , .		6
95	Silicon Photonic Bragg Grating Devices. , 2017, , .		4
96	Dual phase-shift Bragg grating silicon photonic modulator operating up to 60 Gb/s. Optics Express, 2016, 24, 2413.	1.7	41
97	Segmented silicon MZM for PAM-8 transmissions at 114 Gb/s with binary signaling. Optics Express, 2016, 24, 19467.	1.7	19
98	Integrated cladding-pumped multicore few-mode erbium-doped fibre amplifier for space-division-multiplexed communications. Nature Photonics, 2016, 10, 529-533.	15.6	97
99	User-Interactive and Wireless-Communicating RF Textiles. Advanced Materials Technologies, 2016, 1, 1600032.	3.0	6
100	Revolutionizing optical fiber transmission and networking using the Orbital Angular Momentum of light. , 2016, , .		1
101	Experimental study of receiver complexity in OAM-MDM transmission systems. , 2016, , .		3
102	Investigation of orbital angular momentum mode purity in air-core optical fibers. , 2016, , .		5
103	A Dynamic Model of Silicon Bragg Grating Modulators. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 107-115.	1.9	7
104	Emissive Properties of Wearable Wireless-Communicating Textiles Made From Multimaterial Fibers. IEEE Transactions on Antennas and Propagation, 2016, 64, 2457-2464.	3.1	10
105	Semiconductor Optical Amplifier-Based Wavelength Conversion of Nyquist-16QAM for Flex-Grid Optical Networks. Journal of Lightwave Technology, 2016, 34, 2724-2729.	2.7	15
106	Ultra-fast digital transmission using low-power ring modulator. , 2016, , .		1
107	Microring modulators for power efficient multi-level transmission: How to break the 100 Gbit/s barrier. , 2016, , .		0
108	Ultrafast pulse-amplitude modulation with a femtojoule silicon photonic modulator. Optica, 2016, 3, 622.	4.8	107

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109	Mode Division Multiplexing Using Orbital Angular Momentum Modes Over 1.4-km Ring Core Fiber. Journal of Lightwave Technology, 2016, 34, 4252-4258.	2.7	62
110	Washable hydrophobic smart textiles and multi-material fibers for wireless communication. Smart Materials and Structures, 2016, 25, 115027.	1.8	17
111	Silicon photonic devices for high-capacity optical interconnects. , 2016, , .		1
112	On-chip multi-level signal generation using cascaded microring modulator. , 2016, , .		2
113	Orbital-Angular-Momentum Polarization Mode Dispersion in Optical Fibers. Journal of Lightwave Technology, 2016, 34, 1661-1671.	2.7	31
114	Multi-parameter sensor based on stimulated Brillouin scattering in inverse-parabolic graded-index fiber. Optics Letters, 2016, 41, 1138.	1.7	32
115	Demonstration of Cladding-Pumped Six-Core Erbium-Doped Fiber Amplifier. Journal of Lightwave Technology, 2016, 34, 1654-1660.	2.7	25
116	Postcompensation of Nonlinear Distortions of 64-QAM Signals in a Semiconductor-Based Wavelength Converter. Journal of Lightwave Technology, 2016, 34, 2127-2138.	2.7	5
117	Dynamics of optically-injected semiconductor nanolasers. Proceedings of SPIE, 2016, , .	0.8	0
118	Gain compression effect on the modulation dynamics of an optically injection-locked semiconductor laser using gain lever. , 2016, , .		1
119	Investigation of Inter-Core Cross-Talk in Cladding Pumped Double-Clad 6-Core Erbium Doped Fiber Amplifier. , 2016, , .		2
120	Orbital Angular Momentum Mode Division Multiplexing over 1.4 km RCF Fiber. , 2016, , .		8
121	O-Band Silicon Photonic Bragg-Grating Multiplexers Using UV Lithography. , 2016, , .		8
122	Characterization of Annular Cladding Erbium-Doped 6-Core Fiber Amplifier. , 2016, , .		2
123	Low-power DAC-less PAM-4 transmitter using a cascaded microring modulator. Optics Letters, 2016, 41, 5369.	1.7	26
124	Optical Fibers for Next Generation Optical Communications. , 2016, , .		0
125	Brillouin Gain Spectra Measurement of Vector Modes in a Few-Mode Fiber. , 2016, , .		0
126	Transmission of 50 Gb/s with a Dual Phase-Shift Bragg Grating Silicon Photonic Modulator. , 2016, , .		3



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127	High Performance Narrow Bandpass Filters Based on Integrated Bragg Gratings in Silicon-on-Insulator. , 2015, , .		1
128	Orbital-angular-momentum polarization mode dispersion in optical fibers and its measurement technique. , 2015, , .		3
129	Annular-cladding erbium doped multicore fiber for SDM amplification. Optics Express, 2015, 23, 29647.	1.7	26
130	Real-time Fourier transformation of lightwave spectra and application in optical reflectometry. Optics Express, 2015, 23, 32516.	1.7	6
131	Design of a Polarization-Insensitive WDM Demultiplexing Lattice Filter in SOI. , 2015, , .		1
132	Widely Bandwidth-Tunable Broadband Optical Filter on Silicon. , 2015, , .		1
133	Multi-Format Wavelength Conversion Using Quantum Dash Mode-Locked Laser Pumps. Photonics, 2015, 2, 527-539.	0.9	5
134	Digital Post-Compensation of Nonlinear Distortions in Wavelength Conversion Based on Four-Wave Mixing in a Semiconductor Optical Amplifier. Journal of Lightwave Technology, 2015, 33, 3254-3264.	2.7	4
135	Transmission over coupled six-core fiber with two in-line cladding-pumped six-core EDFAs. , 2015, , .		5
136	Efficient annular cladding amplifier with six, three-mode cores. , 2015, , .		14
137	Long Integrated Bragg Gratings for Sol Wafer Metrology. IEEE Photonics Technology Letters, 2015, 27, 755-758.	1.3	13
138	Emissive performance of wearable RF textiles made from multi-material fibers. , 2015, , .		0
139	Design of Polarization-Insensitive Demultiplexing Lattice Filters in SOI. Journal of Lightwave Technology, 2015, 33, 5227-5234.	2.7	4
140	Design of eight-mode polarization-maintaining few-mode fiber for multiple-input multiple-output-free spatial division multiplexing. Optics Letters, 2015, 40, 5846.	1.7	82
141	Corrections to "Enhancement of the Modulation Dynamics of an Optically Injection-Locked Semiconductor Laser Using Gain Leveraging". IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 792-792.	1.9	1
142	Widely bandwidth-tunable silicon filter with an unlimited free-spectral range. Optics Letters, 2015, 40, 5471.	1.7	60
143	Hilbert transformers based on fiber Bragg gratings in transmission. , 2015, , .		0
144	Design of a family of ring-core fiber for OAM. , 2015, , .		3

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145	Complete Dispersion Characterization of Few Mode Fibers by OLCI Technique. Journal of Lightwave Technology, 2015, 33, 1155-1160.	2.7	22
146	THz-bandwidth photonic Hilbert transformers based on fiber Bragg gratings in transmission. Optics Letters, 2015, 40, 41.	1.7	6
147	Enhancement of the Modulation Dynamics of an Optically Injection-Locked Semiconductor Laser Using Gain Lever. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 575-582.	1.9	1
148	Bandpass integrated Bragg gratings in silicon-on-insulator with well-controlled amplitude and phase responses. Optics Letters, 2015, 40, 736.	1.7	33
149	Multi-parameter sensing based on the stimulated Brillouin scattering of higher-order acoustic modes in OAM fiber. Proceedings of SPIE, 2015, , .	0.8	2
150	Design of a family of ring-core fibers for OAM transmission studies. Optics Express, 2015, 23, 10553.	1.7	135
151	Complex apodized Bragg grating filters without circulators in silicon-on-insulator. Optics Express, 2015, 23, 16662.	1.7	32
152	Annular Cladding Erbium-Doped Multi-Core Fiber for SDM Amplification. , 2015, , .		1
153	60 Gb/s PAM-4 operation with a silicon microring modulator. , 2015, , .		6
154	Analytical Modeling of Silicon Microring and Microdisk Modulators With Electrical and Optical Dynamics. Journal of Lightwave Technology, 2015, 33, 4240-4252.	2.7	87
155	Novel Wearable RF Textile-Integrated Antennas Made from Multi-Material Fibers. , 2015, , .		0
156	High-Quality Bragg Gratings Operating in Reflection without Circulators in SOL. , 2015, , .		2
157	Efficient Carrier-Reuse for MMW-RoF Access Network Architecture with Orthogonal Phase-Correlated Modulation. , 2015, , .		2
158	Design, fabrication and validation of an OAM fiber supporting 36 states. Optics Express, 2014, 22, 26117.	1.7	338
159	Novel wireless-communicating textiles made from multi-material and minimally-invasive fibers. , 2014, 2014, 6278-81.		0
160	Novel Wireless-Communicating Textiles Made from Multi-Material and Minimally-Invasive Fibers. Sensors, 2014, 14, 19260-19274.	2.1	27
161	Analytical modeling for ultra-high-speed microring modulators with electrical and optical dynamics. , 2014, , .		2
162	Design of an Optical Fiber Supporting 16 OAM Modes. , 2014, , .		12

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163	264â€‰W output power at 1585â€‰nm in Erâ€‰Yb codoped fiber laser using in-band pumping. Optics Letters, 2014, 39, 3974.	1.7	61
164	Inverse-parabolic graded-index profile for transmission of cylindrical vector modes in optical fibers. , 2014, , .		12
165	Vector Mode Analysis of Ring-Core Fibers: Design Tools for Spatial Division Multiplexing. Journal of Lightwave Technology, 2014, 32, 4648-4659.	2.7	85
166	Novel multi-material fibers for wireless communication textile devices. , 2014, , .		1
167	Characterization of OAM fibers using fiber Bragg gratings. Optics Express, 2014, 22, 15653.	1.7	65
168	Multiwavelength super-structured Bragg grating laser for tunable repetition rate mode-locked operation. Optics Express, 2014, 22, 17050.	1.7	2
169	Few-mode fiber with inverse-parabolic graded-index profile for transmission of OAM-carrying modes. Optics Express, 2014, 22, 18044.	1.7	167
170	Microwave Interferometric Technique for Characterizing Few Mode Fibers. IEEE Photonics Technology Letters, 2014, 26, 1695-1698.	1.3	16
171	Exciting OAM modes in annular-core fibers via perfect OAM beams. , 2014, , .		6
172	Orthogonal Single-Sideband Signal Generation Using Improved Sagnac-Loop-Based Modulator. IEEE Photonics Technology Letters, 2014, 26, 2229-2231.	1.3	14
173	Characterization of few mode fibers by OLCI technique. , 2014, , .		2
174	Multi-wavelength Single-Polarization All-fiber Lasers Based On In-fiber Polarizers. , 2014, , .		0
175	Recent advances in ultrafast all-optical signal processing and generation. , 2013, , .		0
176	Optical generation of microwave passband signals. Microwave and Optical Technology Letters, 2013, 55, 656-660.	0.9	0
177	Cross-Layer Performance Analysis of Recirculation Buffers for Optical Data Centers. Journal of Lightwave Technology, 2013, 31, 432-445.	2.7	28
178	Experimental demonstration of superluminal space-to-time mapping in long period gratings. Optics Letters, 2013, 38, 1419.	1.7	12
179	Superluminal space-to-time mapping in grating-assisted co-directional couplers. Optics Express, 2013, 21, 6249.	1.7	19
180	Integrated Bragg gratings in spiral waveguides. Optics Express, 2013, 21, 8953.	1.7	41

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181	Wideband wavelength conversion of 16 Gbaud 16-QAM and 5 Gbaud 64-QAM signals in a semiconductor optical amplifier. Optics Express, 2013, 21, 19825.	1.7	47
182	Characterization and reduction of spectral distortions in Silicon-on-Insulator integrated Bragg gratings. Optics Express, 2013, 21, 23145.	1.7	25
183	Picosecond optical signal processing based on transmissive fiber Bragg gratings. Optics Letters, 2013, 38, 1247.	1.7	16
184	Efficient, Widely-Tunable Wavelength Conversion for Packets With In-Band Labels. IEEE Photonics Technology Letters, 2013, 25, 2470-2473.	1.3	1
185	Multiwavelength laser based on superimposed Bragg gratings on multiquantum well AlGaInAs-InP. , 2013, , .		0
186	The practical limit to impairment-aware scheduling in all-optical routers. , 2013, , .		0
187	Wideband Wavelength Conversion of 5 Gbaud 64-QAM Signals in a Semiconductor Optical Amplifier. , 2013, , .		1
188	Small-footprint Integrated Bragg Gratings in SOI spiral waveguides. , 2013, , .		0
189	Single-etch step grating couplers for SOI waveguides. Proceedings of SPIE, 2013, , .	0.8	0
190	Tailored modal gain in a multi-mode erbium-doped fiber amplifier based on engineered ring doping profiles. Proceedings of SPIE, 2013, , .	0.8	20
191	Pico-second Flat-Top Pulse-Shaper based on a Linearly-Chirped Fiber Bragg Grating in Transmission. , 2013, , .		0
192	Single-shot photonic time-intensity integration based on a time-spectrum convolution system. Optics Letters, 2012, 37, 1355.	1.7	39
193	Quantum-Dash Mode-Locked Lasers for Tunable Wavelength Conversion on a 100ÅGHz Frequency Grid. Journal of Optical Communications and Networking, 2012, 4, A69.	3.3	7
194	FBG-Based Matched Filters for Optical Processing of RF Signals. IEEE Photonics Journal, 2012, 4, 832-843.	1.0	3
195	Analysis of Large-Scale Multi-Stage All-Optical Packet Switching Routers. Journal of Optical Communications and Networking, 2012, 4, 412.	3.3	14
196	Improving vertical GPS precision with a GPS-over-fiber architecture and real-time relative delay calibration. GPS Solutions, 2012, 16, 449-462.	2.2	21
197	Apodized Silicon-on-Insulator Bragg Gratings. IEEE Photonics Technology Letters, 2012, 24, 1033-1035.	1.3	82
198	Optical UWB Waveform Generation Using a Micro-Ring Resonator. IEEE Photonics Technology Letters, 2012, 24, 1316-1318.	1.3	8

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199	Upconversion of Gain-Switched Laser Pulses for Optical Generation of UWB Signals. Journal of Lightwave Technology, 2012, 30, 207-214.	2.7	2
200	Semi-Analytical Modeling of Distributed Phase-Shifts Applied on Chirped Fiber Bragg Gratings. Journal of Lightwave Technology, 2012, 30, 184-191.	2.7	1
201	Reconfigurable Optical Fiber-Based Microwave Dispersive Line for Single-Shot Chirped Microwave Pulse Compression. , 2012, , .		2
202	Real-Time Optical Spectrum Fourier Transformation. , 2012, , .		0
203	Single-Shot Photonic Time-Intensity Integration with High Processing Speed over Nanosecond Time Windows. , 2012, , .		0
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205	A high-performance network architecture for scalable optical datacenters. , 2011, , .		1
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