

Mark A Foster

List of Publications by Year in descending order

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200
papers

8,878
citations

66343

42
h-index

62596

80
g-index

200
all docs

200
docs citations

200
times ranked

4858
citing authors

#	ARTICLE	IF	CITATIONS
1	CMOS-compatible multiple-wavelength oscillator for on-chip optical interconnects. Nature Photonics, 2010, 4, 37-40.	31.4	847
2	Broad-band optical parametric gain on a silicon photonic chip. Nature, 2006, 441, 960-963.	27.8	794
3	Silicon-chip-based ultrafast optical oscilloscope. Nature, 2008, 456, 81-84.	27.8	442
4	Tailored anomalous group-velocity dispersion in silicon channel waveguides. Optics Express, 2006, 14, 4357.	3.4	373
5	Nonlinear optics in photonic nanowires. Optics Express, 2008, 16, 1300.	3.4	363
6	Signal regeneration using low-power four-wave mixing on silicon chip. Nature Photonics, 2008, 2, 35-38.	31.4	350
7	Generation of correlated photons in nanoscale silicon waveguides. Optics Express, 2006, 14, 12388.	3.4	317
8	Broad-band continuous-wave parametric wavelength conversion in silicon nanowaveguides. Optics Express, 2007, 15, 12949.	3.4	295
9	Application of space-time duality to ultrahigh-speed optical signal processing. Advances in Optics and Photonics, 2013, 5, 274.	25.5	279
10	Harmonic generation in silicon nitride ring resonators. Optics Express, 2011, 19, 11415.	3.4	255
11	Ultra-low power parametric frequency conversion in a silicon microring resonator. Optics Express, 2008, 16, 4881.	3.4	247
12	Modelocking and femtosecond pulse generation in chip-based frequency combs. Optics Express, 2013, 21, 1335.	3.4	217
13	Optimal waveguide dimensions for nonlinear interactions. Optics Express, 2004, 12, 2880.	3.4	211
14	All-optical switching on a silicon chip. Optics Letters, 2004, 29, 2867.	3.3	205
15	Optical time lens based on four-wave mixing on a silicon chip. Optics Letters, 2008, 33, 1047.	3.3	199
16	Ultrashort free-carrier lifetime in low-loss silicon nanowaveguides. Optics Express, 2010, 18, 3582.	3.4	176
17	Ultrabroadband supercontinuum generation in a CMOS-compatible platform. Optics Letters, 2012, 37, 1685.	3.3	176
18	Silicon-based monolithic optical frequency comb source. Optics Express, 2011, 19, 14233.	3.4	162

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19	All-optical slow-light on a photonic chip. <i>Optics Express</i> , 2006, 14, 2317.	3.4	159
20	Ultrafast waveform compression using a time-domain telescope. <i>Nature Photonics</i> , 2009, 3, 581-585.	31.4	158
21	Soliton-effect compression of supercontinuum to few-cycle durations in photonic nanowires. <i>Optics Express</i> , 2005, 13, 6848.	3.4	151
22	Wide-bandwidth continuously tunable optical delay line using silicon microring resonators. <i>Optics Express</i> , 2010, 18, 26525.	3.4	139
23	Frequency conversion over two-thirds of an octave in silicon nanowaveguides. <i>Optics Express</i> , 2010, 18, 1904.	3.4	136
24	High-speed ultrawideband photonically enabled compressed sensing of sparse radio frequency signals. <i>Optics Letters</i> , 2013, 38, 4892.	3.3	130
25	High-speed optical sampling using a silicon-chip temporal magnifier. <i>Optics Express</i> , 2009, 17, 4324.	3.4	125
26	Ultra-low threshold supercontinuum generation in sub-wavelength waveguides. <i>Optics Express</i> , 2004, 12, 3137.	3.4	106
27	Four-wave-mixing parametric oscillations in dispersion-compensated high- Q silica microspheres. <i>Physical Review A</i> , 2007, 76, .	2.5	100
28	Demonstration of Broadband Wavelength Conversion at 40 Gb/s in Silicon Waveguides. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 182-184.	2.5	97
29	Ultralow-power all-optical processing of high-speed data signals in deposited silicon waveguides. <i>Optics Express</i> , 2012, 20, 24600.	3.4	90
30	Wavelength multicasting in silicon photonic nanowires. <i>Optics Express</i> , 2010, 18, 18047.	3.4	77
31	Octave-spanning, high-power microstructure-fiber-based optical parametric oscillators. <i>Optics Express</i> , 2007, 15, 1474.	3.4	74
32	Full 160-Gb/s OTDM to 16x10-Gb/s WDM conversion with a single nonlinear interaction. <i>Optics Express</i> , 2013, 21, 508.	3.4	71
33	High-Performance Silicon-Nitride-Based Multiple-Wavelength Source. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1375-1377.	2.5	67
34	High-speed flow microscopy using compressed sensing with ultrafast laser pulses. <i>Optics Express</i> , 2015, 23, 10521.	3.4	66
35	All-optical regeneration on a silicon chip. <i>Optics Express</i> , 2007, 15, 7802.	3.4	64
36	Nonlinear pulse propagation and supercontinuum generation in photonic nanowires: experiment and simulation. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 363-367.	2.2	62

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37	Continuous-wave mid-infrared frequency conversion in silicon nanowaveguides. Optics Letters, 2011, 36, 1263.	3.3	62
38	Single-pixel imaging using compressed sensing and wavelength-dependent scattering. Optics Letters, 2016, 41, 886.	3.3	55
39	A minimally invasive lens-free computational microendoscope. Science Advances, 2019, 5, eaaw5595.	10.3	52
40	Silicon-waveguide-coupled high-Q chalcogenide microspheres. Optics Express, 2009, 17, 5998.	3.4	50
41	Silicon photonic physical unclonable function. Optics Express, 2017, 25, 12710.	3.4	50
42	Spectral phase conjugation via temporal imaging. Optics Express, 2009, 17, 20605.	3.4	43
43	Large tunable delays using parametric mixing and phase conjugation in Si nanowaveguides. Optics Express, 2008, 16, 10349.	3.4	40
44	High-resolution spectroscopy using a frequency magnifier. Optics Express, 2009, 17, 5691.	3.4	40
45	1 $\hat{1}$ / ₄ s tunable delay using parametric mixing and optical phase conjugation in Si waveguides. Optics Express, 2009, 17, 7004.	3.4	37
46	Temporal-imaging system with simple external-clock triggering. Optics Express, 2010, 18, 14262.	3.4	37
47	Broadband parametric frequency comb generation with a 1- $\hat{1}$ / ₄ m pump source. Optics Express, 2012, 20, 26935.	3.4	33
48	High-speed all-optical NAND/AND logic gates using four-wave mixing Bragg scattering. Optics Letters, 2016, 41, 3320.	3.3	32
49	High-speed all-optical Haar wavelet transform for real-time image compression. Optics Express, 2017, 25, 9802.	3.4	31
50	Ultrawideband compressed sensing of arbitrary multi-tone sparse radio frequencies using spectrally encoded ultrafast laser pulses. Optics Letters, 2015, 40, 3045.	3.3	30
51	Compressive fluorescence imaging using a multi-core fiber and spatially dependent scattering. Optics Letters, 2017, 42, 109.	3.3	28
52	Generation of sub-100-fs pulses from a microstructure-fiber-based optical parametric oscillator. Optics Express, 2008, 16, 18050.	3.4	27
53	A Simplified Optical Correlator and Its Application to Packet-Header Recognition. IEEE Photonics Technology Letters, 2008, 20, 487-489.	2.5	25
54	Continuous Wavelength Conversion of 40-Gb/s Data Over 100 nm Using a Dispersion-Engineered Silicon Waveguide. IEEE Photonics Technology Letters, 2011, 23, 73-75.	2.5	24

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55	Wavelength-agile near-IR optical parametric oscillator using a deposited silicon waveguide. Optics Express, 2015, 23, 15431.	3.4	24
56	Multichannel photon-pair generation using hydrogenated amorphous silicon waveguides. Optics Letters, 2014, 39, 914.	3.3	23
57	Optimal sizes of silica microspheres for linear and nonlinear optical interactions. Applied Physics B: Lasers and Optics, 2006, 83, 303-309.	2.2	19
58	Unclonable photonic keys hardened against machine learning attacks. APL Photonics, 2020, 5, .	5.7	19
59	Widefield compressive multiphoton microscopy. Optics Letters, 2018, 43, 2989.	3.3	16
60	Scalable ultrahigh-speed optical transmultiplexer using a time lens. Optics Express, 2011, 19, 14051.	3.4	15
61	Characterization of Nonlinear Optical Crosstalk in Silicon Nanowaveguides. IEEE Photonics Technology Letters, 2012, 24, 185-187.	2.5	15
62	Secure communications using nonlinear silicon photonic keys. Optics Express, 2018, 26, 4710.	3.4	15
63	Ultrafast Measurements Using a Silicon- Chip-Based Temporal Lens. Optics and Photonics News, 2009, 20, 40.	0.5	13
64	Simultaneous wavelength conversion of ASK and DPSK signals based on four-wave-mixing in dispersion engineered silicon waveguides. Optics Express, 2011, 19, 12172.	3.4	13
65	High-speed flow imaging utilizing spectral-encoding of ultrafast pulses and compressed sensing. , 2014, , .		13
66	A multi-layer platform for low-loss nonlinear silicon photonics. APL Photonics, 2019, 4, .	5.7	12
67	Linearization of phase-modulated analog optical links using a four-wave mixing comb source. Optics Express, 2014, 22, 30899.	3.4	11
68	Heterodyne detection using spectral line pairing for spectral phase encoding optical code division multiple access and dynamic dispersion compensation. Optics Express, 2012, 20, 17600.	3.4	10
69	Ultrahigh-Speed Optical Processing Using Space-Time Duality. Optics and Photonics News, 2011, 22, 29.	0.5	9
70	Ultra-Wideband Gain in Microwave Photonic Links using Four-Wave Mixing. , 2012, , .		9
71	Wavelength multicasting through four-wave mixing with an optical comb source. Optics Express, 2017, 25, 9276.	3.4	8
72	160-Gb/s Broadband Wavelength Conversion on Chip Using Dispersion-Engineered Silicon Waveguides. , 2009, , .		8

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73	Four-wave Mixing in Integrated Silicon Nitride Waveguides. , 2009, , .		7
74	First Demonstration of On-Chip Wavelength Multicasting. , 2009, , .		7
75	Highly sensitive ultrafast pulse characterization using hydrogenated amorphous silicon waveguides. Optics Express, 2013, 21, 31229.	3.4	7
76	Frequency Conversion in Silicon Waveguides Over Two-Thirds of an Octave. , 2009, , .		7
77	Wavelength dependence of the ultrafast third-order nonlinearity of Silicon. , 2007, , .		6
78	All-Optical Multiorder Distortion Elimination in a Phase-Modulated Microwave Photonic Link. Journal of Lightwave Technology, 2017, 35, 855-861.	4.6	6
79	Optical coherence tomography using physical domain data compression to achieve MHz A-scan rates. Optics Express, 2019, 27, 36329.	3.4	6
80	Low-power optical regeneration using four-wave mixing in a silicon chip. , 2008, , .		5
81	All-optical demultiplexing of Nyquist OTDM signal using a biorthogonal Nyquist gate. Optics Express, 2017, 25, 33250.	3.4	5
82	Time-lens photon Doppler velocimetry (TL-PDV). Review of Scientific Instruments, 2021, 92, 044703.	1.3	5
83	Kilohertz frame rate snapshot hyperspectral imaging of metal reactive materials. Applied Optics, 2020, 59, 10406.	1.8	5
84	Ultrafast, Single-Shot Phase and Amplitude Measurement via a Temporal Imaging Approach. , 2010, , .		4
85	THz field detection in graphene using deep neural networks. Applied Physics Letters, 2019, 115, .	3.3	4
86	Photonic Physical Unclonable Functions using Silicon Nitride Spiral Cavities. , 2017, , .		4
87	First 80-Gb/s and 160-Gb/s Wavelength-Converted Data Stream Measurements in a Silicon Waveguide. , 2010, , .		3
88	High-speed ultrawideband compressed sensing of sparse radio frequency signals. , 2014, , .		3
89	High-speed compressed sensing measurement using spectrally-encoded ultrafast laser pulses. , 2015, , .		3
90	Continuous 119.2-GSample/s photonic compressed sensing of sparse microwave signals. , 2015, , .		3

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91	Tunable delays via conversion-dispersion using on-chip four-wave-mixing. , 2008, , .		3
92	Compressed Sensing of Sparse RF Signals Based on Silicon Photonic Microcavities. , 2017, , .		3
93	Experimental demonstration of a high-speed optical correlator for phase-modulated packets. , 2008, , .		2
94	1 ¼s tunable delay using parametric mixing and optical phase conjugation in Si waveguides: reply. Optics Express, 2009, 17, 16029.	3.4	2
95	On-chip wavelength multicasting of 320-Gb/s pulsed-RZ optical data. , 2010, , .		2
96	Experimental demonstration of coherent OCDMA using heterodyne detection. Optics Letters, 2013, 38, 2351.	3.3	2
97	All-optical demultiplexing of Nyquist OTDM using a Nyquist gate. , 2014, , .		2
98	Light transport through ultrafast chaotic micro-cavities for photonic physical unclonable functions. , 2017, , .		2
99	A High Speed All-Optical NAND Logic Gate Using Four-Wave Mixing. , 2015, , .		2
100	Secure Authentication using the Ultrafast Response of Chaotic Silicon Photonic Microcavities. , 2016, , .		2
101	Broad-bandwidth Optical Amplification and Efficient Wavelength Conversion in Silicon Waveguides. , 2006, , .		2
102	Octave-Spanning Supercontinuum Generation in CMOS-Compatible Silicon Nitride Waveguides. , 2011, , .		2
103	72 MHz A-scan optical coherence tomography using continuous high-rate photonically-enabled compressed sensing (CHiRP-CS). , 2016, , .		2
104	Linearization of phase-modulated analog links using four-wave mixing in an optical comb source. , 2016, , .		2
105	GHz-rate positive conversion efficiency via FWM in multi-layer SiN _x /a-Si:H waveguides. , 2020, , .		2
106	Tailored anomalous group-velocity dispersion in silicon waveguides. , 2006, , .		1
107	Integrated Optical Regenerator on a Silicon Chip. , 2007, , .		1
108	Extremely high coupling and transmission of high-powered-femtosecond pulses in hollow-core photonic band-gap fiber. , 2008, , .		1

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109	Generation of 270 Gb/s NRZ Data Packets from a 10-Gb/s Signal Using a Temporal Telescopic System. , 2009, , .		1
110	Large Enhancement of Wavelength Conversion in Silicon Nanowaveguides via Free-Carrier Removal. , 2010, , .		1
111	Optical Crosstalk in Silicon Nanowaveguides. , 2010, , .		1
112	Scalable 1.28-Tb/s Transmultiplexer Using a Time Lens. , 2011, , .		1
113	Ultralow-power 160-to-10Gb/s optical demultiplexing using four-wave mixing in deposited silicon waveguides. , 2013, , .		1
114	Experimental Demonstration of Coherent OCDMA using Spectral Line Pairing and Heterodyne Detection. , 2013, , .		1
115	Efficient Wavelength Multicasting through Four-Wave Mixing with a Comb Source. , 2014, , .		1
116	Third-Order Distortion Elimination in Phase-Encoded Analog-Photonic Links using a Four-Wave Mixing Comb Source. , 2014, , .		1
117	Broadband receiver-based distortion elimination in phase-modulated analog optical links using four-wave mixing. Proceedings of SPIE, 2015, , .	0.8	1
118	Conversion for the Better: A Broadband Highly Efficient Microwave Photonics Detector. IEEE Microwave Magazine, 2017, 18, 58-62.	0.8	1
119	Ultralow-Power 160-Gb/s All-Optical Demultiplexing in Hydrogenated Amorphous Silicon Waveguides. , 2012, , .		1
120	Raman Slow Light in Fibers and on Chip. , 2006, , .		1
121	Pulse self-compression of supercontinuum in photonic nanowires. , 2006, , .		1
122	Broad-band continuous-wave four-wave mixing in silicon wire waveguides. , 2007, , .		1
123	Ultra-low-power parametric frequency conversion of high data rates on-chip. , 2008, , .		1
124	Silicon-chip-based single-shot ultrafast optical oscilloscope. , 2008, , .		1
125	Ultrashort Free-Carrier Lifetime for Low Nonlinear Loss in Silicon Waveguides. , 2009, , .		1
126	Broadband Continuous Wavelength Conversion of 10-Gb/s Data in Silicon Waveguides Spanning S-, C-, and L-Bands. , 2010, , .		1

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127	Mid-Infrared Broadband Continuous-Wave Parametric-Mixing in Silicon Nanowaveguides. , 2010, , .		1
128	Octave-Spanning Supercontinuum Generation in CMOS-Compatible Silicon Nitride Waveguides. , 2011, , .		1
129	Compressive optical imaging using a multi-core fiber and spatially dependent scattering. , 2016, , .		1
130	High-Speed Compressive Measurement using a Time-Lens Spectral Shaper. , 2017, , .		1
131	Highly nonlinear amorphous silicon micro-cavity as a platform for secure authentication. , 2019, , .		1
132	Ultrahigh-speed spatial pattern projection using a nonlinear optical time lens for fast single-pixel imaging. , 2019, , .		1
133	Lens-Free Computational Epi-Fluorescence Microendoscopy. , 2020, , .		1
134	Fiber-Based Optical Parametric Oscillator with 50-mW Average Output Power and 200 nm of Wavelength Tunability. , 2006, , LMF7.		0
135	Broad-bandwidth optical gain and efficient wavelength conversion in silicon waveguides. , 2006, , .		0
136	Raman-induced slow-light on a silicon photonic chip. , 2006, , .		0
137	Optimal Pulse Compression via Sequential Filamentation. , 2007, , .		0
138	Spatio-Spectral-Shaping for Pulse Compression via Sequential Filamentation. , 2007, , .		0
139	Parametric oscillation via dispersion-compensation in high-Q microspheres. , 2007, , .		0
140	Optimal pulse compression via sequential filamentation. , 2007, , .		0
141	Microstructure-fiber-based ultrafast optical parametric oscillators. , 2007, , .		0
142	All-Optical Packet-Header Recognition at 100 Gb/s Using a Simplified 4-f Correlator. , 2008, , .		0
143	Time lens for ultrafast signal measurements based on four-wave mixing in silicon. , 2008, , .		0
144	A novel optical correlator and its application to packet-header recognition. , 2008, , .		0

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145	Dispersion and nonlinearity compensation using spectral phase conjugation. , 2009, , .		0
146	Large bandwidth continuously tunable delay using silicon microring resonators. , 2009, , .		0
147	High-Speed Optical Signal Sampling via Temporal Magnification. , 2009, , .		0
148	Broadband wavelength conversion of 10-Gb/s DPSK signals in silicon waveguides. , 2010, , .		0
149	CMOS-Compatible Microresonator-Based Optical Frequency Comb. , 2010, , .		0
150	Continuous-Wave Mid-Infrared Frequency Conversion in Silicon Nanowaveguides. , 2011, , .		0
151	An All-Optical Sample-and-Hold Architecture Incorporating Amplitude Jitter Suppression. , 2012, , .		0
152	On-Chip High Repetition Rate Femtosecond Source. , 2012, , .		0
153	Bit-error rate improvement through all-optical signal regeneration in deposited silicon waveguides. , 2012, , .		0
154	Simulation and experimental demonstration of coherent OCDMA using spectral line pairing and heterodyne detection. , 2013, , .		0
155	Full 160-Gb/s OTDM to 16 λ -10-Gb/s WDM conversion using a single nonlinear device. , 2013, , .		0
156	Full 16 channel OTDM-WDM conversion using a temporal optical Fourier processor. , 2013, , .		0
157	Compressive ultrahigh-speed continuous imaging using spectrally structured ultrafast laser pulses. Proceedings of SPIE, 2015, , .	0.8	0
158	Compressive optical imaging using wavelength dependent scattering. , 2015, , .		0
159	Ultrawideband RF compressed sensing using spectrally-encoded ultrafast laser pulses. , 2015, , .		0
160	All-optical NAND logic gate using four-wave mixing. , 2015, , .		0
161	High-speed spectral shearing contrast time-stretch microscopy. , 2016, , .		0
162	Compressive high speed flow microscopy with motion contrast (Conference Presentation). , 2016, , .		0

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163	Passive Timing Stabilization over a 33-km Single Mode Fiber Link using Temporal Imaging. , 2018, , .		0
164	Silicon Photonic Cryptographic Engines. , 2018, , .		0
165	Passive timing stabilization over a 33-km single mode fiber link using temporal imaging. , 2018, , .		0
166	Photonic Physical Unclonable Functions using Silicon Nitride Spiral Waveguides. , 2018, , .		0
167	Time-Domain Compressive FMCW LADAR. , 2018, , .		0
168	Integrated Photonic Physical Unclonable Function using Highly Nonlinear Amorphous Silicon. , 2019, , .		0
169	Integrated Photonic Physical Unclonable Function using Highly Nonlinear Amorphous Silicon. , 2019, , .		0
170	Minimally-invasive lensless computational microendoscopy leveraging modal decomposition. , 2021, , .		0
171	Single-cycle pulse generation in photonic nanowires. , 2006, , .		0
172	Optical Regeneration in a Silicon Waveguide. , 2007, , .		0
173	Soliton-effect pulse compression of supercontinuum in photonic nanowires. Springer Series in Chemical Physics, 2007, , 86-88.	0.2	0
174	Dispersion-Compensation in High-Q Silica Microspheres for Parametric Oscillation. , 2007, , .		0
175	Frequency-Resolved Optical Gating on a Silicon Photonic Chip. , 2008, , .		0
176	Silicon-Chip-Based Single-Shot Ultrafast Optical Oscilloscope. , 2008, , .		0
177	Large temporal magnification using four-wave mixing on a silicon chip. , 2008, , .		0
178	Silicon-coupled, high-Q chalcogenide microspheres. , 2008, , .		0
179	Packet Compression from a 10-Gb/s to 270-Gb/s using a Temporal Telescopic System. , 2009, , .		0
180	CMOS-Compatible Multiple Wavelength Source. , 2009, , .		0

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181	Temporal Imaging System with Simple External Clock Synchronization. , 2009, , .		0
182	Silicon-Chip-Based Single-Shot Ultrafast Optical Oscilloscope. Springer Series in Chemical Physics, 2009, , 932-934.	0.2	0
183	Single-Shot Optical Sampling of Ultrafast Signals Using a Silicon-Chip Time Lens. , 2009, , .		0
184	100Å— Frequency Magnification Using a Time-Lens-Based Spectral Imaging System. , 2009, , .		0
185	Ultrafast Optical Waveform Characterization and Generation Using a Four-Wave Mixing Time Lens on a Silicon Chip. , 2009, , .		0
186	Spectral phase conjugation using temporal imaging. , 2009, , .		0
187	Optical Crosstalk in a Silicon Nanowaveguide. , 2010, , .		0
188	Visible Harmonic Generation in CMOS-Compatible Integrated Photonic Devices. , 2010, , .		0
189	Octave-Spanning Supercontinuum Generation in CMOS-Compatible Silicon Nitride Waveguides. , 2011, , .		0
190	Ultrabroadband Frequency Comb Generation at 1 μ m in a Silicon-Nitride Ring Resonator. , 2011, , .		0
191	Silicon-Chip Femtosecond Source. , 2012, , .		0
192	Spectral and Temporal Properties of a Microresonator Optical Frequency Comb. , 2012, , .		0
193	Wavelength-Agile Near-IR Chip-Based Optical Parametric Oscillator using a Deposited Silicon Waveguide. , 2013, , .		0
194	Highly-Sensitive Ultrafast Pulse Characterization Utilizing Four-wave Mixing in an Amorphous Silicon Nanowaveguide. , 2013, , .		0
195	Continuous high-rate photonically-enabled compressed sensing (CHiRP-CS) for high speed flow microscopy. , 2015, , .		0
196	Photonically-Enabled Microwave Function Generation Via Tailored Distortion. , 2015, , .		0
197	Real-Time Image Compression Based on All-Optical Haar Wavelet Transform. , 2016, , .		0
198	Encrypted Communication using Chaotic Silicon Photonic Microcavities. , 2017, , .		0

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199	High-speed compressive line-scanned two photon microscopy. , 2020, , .		0
200	Fast and Wide Field-of-View Microscopy using a Coded Aperture. , 2020, , .		0