

Roberto Morandotti

List of Publications by Year in descending order

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Version: 2024-02-01

648
papers

24,190
citations

10389

72
h-index

9103

144
g-index

651
all docs

651
docs citations

651
times ranked

11573
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on multimode light shaping. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 013001.	2.2	41
2	Versatile metal-wire waveguides for broadband terahertz signal processing and multiplexing. <i>Nature Communications</i> , 2022, 13, 741.	12.8	29
3	11 Tera-OPs/s photonic convolutional accelerator and deep optical neural network based on an integrated Kerr soliton crystal microcomb. , 2022, , .		1
4	Terahertz multi-dimensional imaging for nanoparticle-assisted therapeutics. , 2022, , .		0
5	RF and microwave photonic signal generation and processing based on Kerr micro-combs. , 2022, , .		1
6	Versatile, high bandwidth, RF and microwave photonic Hilbert transformers based on Kerr micro-combs. , 2022, , .		1
7	Telecom-compatible, on-chip generation and processing of complex photon states in time and frequency. , 2022, , .		0
8	Memory Effects in High-Dimensional Systems Faithfully Identified by Hilbertâ€™Schmidt Speed-Based Witness. <i>Entropy</i> , 2022, 24, 395.	2.2	0
9	Optical Neuromorphic Processor at 11 TeraOPs/s based on Kerr Soliton Crystal Micro-combs. , 2022, , .		1
10	Recent advances on time-stretch dispersive Fourier transform and its applications. <i>Advances in Physics: X</i> , 2022, 7, .	4.1	12
11	Topologically tuned terahertz confinement in a nonlinear photonic chip. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	12
12	User-friendly, reconfigurable all-optical signal processing with integrated photonics. , 2022, , .		0
13	RF and microwave photonic temporal signal processing with Kerr micro-combs. <i>Advances in Physics: X</i> , 2021, 6, .	4.1	27
14	Frequency comb distillation for optical superchannel transmission. <i>Journal of Lightwave Technology</i> , 2021, , 1-1.	4.6	13
15	Time-resolved second-order correlation measurements of metallic coaxial nanolasers under pulsed optical excitation. , 2021, , .		0
16	Time-Domain Integration of Terahertz pulses. , 2021, , .		0
17	Guiding of Laser Pulses at the Theoretical Limit â€™ 97% Throughput Hollow-Core Fibers. , 2021, , .		0
18	Highly Versatile Broadband RF Photonic Fractional Hilbert Transformer Based on a Kerr Soliton Crystal Microcomb. <i>Journal of Lightwave Technology</i> , 2021, 39, 7581-7587.	4.6	21

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19	Extreme Raman Red-Shift in Nitrogen-Filled Capillary Fibers. , 2021, , .		0
20	Multipartite d-level photon cluster states and practical entanglement detection through witness operators. , 2021, , .		0
21	Homodyne Solid-State Biased Coherent Detection of Ultra-Broadband Terahertz Pulses with Static Electric Fields. Nanomaterials, 2021, 11, 283.	4.1	7
22	All-optical RF spectrum analyzer with a 5 THz bandwidth based on CMOS-compatible high-index doped silica waveguides. Optics Letters, 2021, 46, 1574.	3.3	6
23	Orthogonally polarized RF optical single sideband generation with integrated ring resonators. Journal of Semiconductors, 2021, 42, 041305.	3.7	17
24	Death and rebirth through nonlinear control. Science, 2021, 372, 32-33.	12.6	0
25	Photonic radio frequency channelizers based on Kerr optical micro-combs. Journal of Semiconductors, 2021, 42, 041302.	3.7	28
26	Arbitrary Phase Access for Stable Fiber Interferometers. Laser and Photonics Reviews, 2021, 15, 2000524.	8.7	9
27	Timeâ€œDomain Integration of Broadband Terahertz Pulses in a Tapered Twoâ€œWire Waveguide. Laser and Photonics Reviews, 2021, 15, 2100051.	8.7	16
28	Free-space realization of tunable pin-like optical vortex beams. Photonics Research, 2021, 9, 1204.	7.0	12
29	Emergence of Laser Cavity-Solitons in a Microresonator-Filtered Fiber Laser. , 2021, , .		0
30	Efficient direct mapping of the nonlinear optical response via modulated Airy beams. Optics Letters, 2021, 46, 3725.	3.3	1
31	Neuromorphic processing at 11 Tera-OPs with soliton crystal Kerr microcombs. , 2021, , .		1
32	Unveiling the Link between Airy-like Self-Acceleration and Diametric Drive Acceleration. Physical Review Letters, 2021, 127, 083901.	7.8	9
33	Nonlinear control of photonic higher-order topological bound states in the continuum. Light: Science and Applications, 2021, 10, 164.	16.6	77
34	Autonomous on-chip interferometry for reconfigurable optical waveform generation. Optica, 2021, 8, 1268.	9.3	22
35	On-chip generation of telecommunications-compatible ultrafast time-bin entangled qubits. , 2021, , .		1
36	3D-Printed Resonant Gold Nanocones for Out-of-Plane Terahertz-Field-Driven Electron Photoemission. , 2021, , .		0

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37	Emergence of Laser Cavity-Solitons in a Microresonator-Filtered Fiber Laser. , 2021, , .		0
38	11 TOPS photonic convolutional accelerator for optical neural networks. Nature, 2021, 589, 44-51.	27.8	550
39	Fiber Interferometers for Time-domain Quantum Optics. , 2021, , .		0
40	Integral order photonic RF signal processors based on a soliton crystal micro-comb source. Journal of Optics (United Kingdom), 2021, 23, 125701.	2.2	14
41	Time-Resolved Second-Order Coherence Characterization of Broadband Metallic Nanolasers. Laser and Photonics Reviews, 2021, 15, 2000593.	8.7	2
42	Dynamically Emerging Topological Phase Transitions in Nonlinear Interacting Soliton Lattices. Physical Review Letters, 2021, 127, 184101.	7.8	10
43	Tapered Two-Wire Waveguide for Time-Domain Integration of Broadband Terahertz Pulses. , 2021, , .		0
44	Real-Time Study of Coexisting States in Laser Cavity Solitons. , 2021, , .		0
45	Spontaneous Emergence of Microresonator Laser Cavity- Solitons. , 2021, , .		0
46	On-chip generation and characterization of densely-spaced time-bin entangled qubits. , 2021, , .		0
47	Optical data transmission with high spectral efficiency at 44Terabits/s with a soliton crystal micro-comb. , 2021, , .		1
48	Field-driven electron photoemission via 3D-printed terahertz resonant vertical nanostructures. , 2021, , .		0
49	On-chip time and frequency modes for the generation and processing of complex photon states. , 2021, , .		0
50	Scalable and effective multi-level entangled photon states: a promising tool to boost quantum technologies. Nanophotonics, 2021, 10, 4447-4465.	6.0	13
51	Photonic convolutional accelerator and neural network in the Tera-OPs regime based on soliton crystal Kerr microcombs. , 2021, , .		1
52	All-optical Sampling for Adaptive On-Chip Picosecond Pulse-Shaping. , 2021, , .		0
53	Guiding of Laser Pulses at the Theoretical Limit – 97% Throughput Hollow-Core Fibers. , 2021, , .		0
54	Supporting the Quantum Photonics Supply Chain with Scalable, Fiber-Compatible Instruments. , 2021, , .		0

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55	Two-photon multi-partite d-level cluster states and witness operators for their practical entanglement detection. , 2021, , .		0
56	Temporal dynamics of second-order correlation function in nanolasers. , 2021, , .		0
57	Towards telecom-compatible liquid-core fibers for low-power nonlinear signal processing. , 2021, , .		1
58	Ultrafast Sampling Oscilloscope for Arbitrary Single Photon Waveforms. , 2021, , .		0
59	Few-Cycle Visible Light Generation in a Hollow-Core Fiber. , 2021, , .		0
60	Picosecond Pulse Shaping via On-Chip Interferometry. , 2021, , .		0
61	Mapping of Nonlinear Response via a Modulated Airy Beam. , 2021, , .		0
62	Tera-OP/s Neuromorphic Processing with Kerr Microcombs. , 2021, , .		1
63	Broadband Microwave Frequency Conversion Based on an Integrated Optical Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 332-338.	4.6	67
64	Photonic RF Phase-Encoded Signal Generation With a Microcomb Source. Journal of Lightwave Technology, 2020, 38, 1722-1727.	4.6	55
65	Induced Photon Correlations Through the Overlap of Two Fourâ€Wave Mixing Processes in Integrated Cavities. Laser and Photonics Reviews, 2020, 14, 2000128.	8.7	18
66	Nonlinear optical response and self-trapping of light in biological suspensions. Advances in Physics: X, 2020, 5, 1778526.	4.1	11
67	Frequency-domain ultrafast passive logic: NOT and XNOR gates. Nature Communications, 2020, 11, 5839.	12.8	15
68	Photonic Perceptron Based on a Kerr Microcomb for Highâ€Speed, Scalable, Optical Neural Networks. Laser and Photonics Reviews, 2020, 14, 2000070.	8.7	84
69	Photonic RF Arbitrary Waveform Generator Based on a Soliton Crystal Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 6221-6226.	4.6	62
70	Photonic RF and Microwave Integrator Based on a Transversal Filter With Soliton Crystal Microcombs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3582-3586.	3.0	23
71	Direct Reading of the Nonlinear Optical Response via Spatial Mapping. Physical Review Applied, 2020, 14, .	3.8	3
72	Designing Time and Frequency Entanglement for Generation of High-Dimensional Photon Cluster States. , 2020, , .		0

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73	Broadband Photonic RF Channelizer With 92 Channels Based on a Soliton Crystal Microcomb. <i>Journal of Lightwave Technology</i> , 2020, 38, 5116-5121.	4.6	38
74	Optical multi-stability in a nonlinear high-order microring resonator filter. <i>APL Photonics</i> , 2020, 5, .	5.7	13
75	2D Layered Graphene Oxide Films Integrated with Micro-Ring Resonators for Enhanced Nonlinear Optics. <i>Small</i> , 2020, 16, e1906563.	10.0	75
76	Improving nanoscale terahertz field localization by means of sharply tapered resonant nanoantennas. <i>Nanophotonics</i> , 2020, 9, 683-690.	6.0	6
77	Photonic RF and microwave filters based on 49 GHz and 200 GHz Kerr microcombs. <i>Optics Communications</i> , 2020, 465, 125563.	2.1	24
78	RF and Microwave Fractional Differentiator Based on Photonics. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2767-2771.	3.0	44
79	Ultra-dense optical data transmission over standard fibre with a single chip source. <i>Nature Communications</i> , 2020, 11, 2568.	12.8	192
80	Turing patterns in a fiber laser with a nested microresonator: Robust and controllable microcomb generation. <i>Physical Review Research</i> , 2020, 2, .	3.6	42
81	Terahertz three-dimensional monitoring of nanoparticle-assisted laser tissue soldering. <i>Biomedical Optics Express</i> , 2020, 11, 2254.	2.9	14
82	Time-domain terahertz compressive imaging. <i>Optics Express</i> , 2020, 28, 3795.	3.4	31
83	Third-order Riemann pulses in optical fibers. <i>Optics Express</i> , 2020, 28, 39827.	3.4	4
84	Extreme Raman red shift: ultrafast multimode nonlinear space-time dynamics, pulse compression, and broadly tunable frequency conversion. <i>Optica</i> , 2020, 7, 1349.	9.3	45
85	Direct comparison of anti-diffracting optical pin beams and abruptly autofocusing beams. <i>OSA Continuum</i> , 2020, 3, 1525.	1.8	18
86	Enhanced four-wave mixing in micro-ring resonators integrated with layered graphene oxide films. , 2020, , .		0
87	Guiding of Laser Pulses at the Theoretical Limit – 97% Throughput Hollow-Core Fibers. , 2020, , .		0
88	Multipartite d-Level Two-Photon Cluster States and Their Entanglement Detection Via Feasible Witness Operators. , 2020, , .		0
89	Light-induced biological waveguides. , 2020, , .		1
90	Unambiguous Phase Retrieval in Fiber-based Interferometers. , 2020, , .		0

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91	Polarization rotation measurements via a high-order vector beam generated by a metasurface. , 2020, , .		0
92	Distinct Laser Dynamics from a Single Figure-Eight Laser with an Integrated Nonlinear Waveguide. , 2020, , .		0
93	Photon correlation control in integrated quantum frequency combs. , 2020, , .		0
94	Photonic RF fractional Hilbert transformers and filters based on integrated soliton crystal microcombs. , 2020, , .		1
95	Broadband RF channelization using microcombs. , 2020, , .		0
96	Generation and coherent manipulation of complex entangled photon states based on integrated quantum frequency combs. , 2020, , .		0
97	Third-order Riemann Pulses in Optical Fiber. , 2020, , .		0
98	Kerr Micro-combs for Radio Frequency Photonics -INVITED. EPJ Web of Conferences, 2020, 238, 01004.	0.3	0
99	Optical frequency comb generation by hybrid mode-locking in a nested cavity scheme. , 2020, , .		0
100	Integrated waveguide and micro-ring resonator polarizers with 2D layered graphene oxide films. , 2020, , .		0
101	Enhanced four-wave mixing in micro-ring resonators with integrated 2D layered graphene oxide films. , 2020, , .		1
102	Homodyne Coherent Detection of THz Pulses via DC-biased Solid-State Devices. , 2020, , .		0
103	Extreme Raman-Induced Spectral Broadening in Nitrogen-Filled Hollow-Core Fibers. , 2020, , .		0
104	Induced Photon Correlations by the Superposition of Two Four-Wave Mixing Processes on a Photonic Chip. , 2020, , .		0
105	Microcombs Eased on Laser Cavity Solitons. , 2020, , .		0
106	Integrated polarizers based on graphene oxide in waveguides and ring resonators. , 2020, , .		6
107	Laser Cavity Solitons and Turing Patterns in Microresonator Filtered Lasers. , 2020, , .		0
108	Dynamic Terahertz Investigation of Nanoparticle-assisted Laser-tissue Interaction. , 2020, , .		0

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109	Graphene Oxide Waveguide and Micro-Ring Resonator Polarizers. Laser and Photonics Reviews, 2019, 13, 1900056.	8.7	66
110	On-chip Generation, Coherent Control and Processing of Complex Entangled Photon States. , 2019, , .		0
111	Collapse on the line " how synthetic dimensions influence nonlinear effects. Scientific Reports, 2019, 9, 9518.	3.3	7
112	Microwave and RF Photonic Fractional Hilbert Transformer Based on a 50 GHz Kerr Micro-Comb. Journal of Lightwave Technology, 2019, 37, 6097-6104.	4.6	61
113	Self-Healing Dynamically Controllable Micro-Comb. , 2019, , .		0
114	Generation and Processing of Complex Photon States With Quantum Frequency Combs. IEEE Photonics Technology Letters, 2019, 31, 1862-1865.	2.5	16
115	Linearizing Nonlinear Optics. EPJ Web of Conferences, 2019, 205, 01007.	0.3	0
116	Microcomb-Based Photonic RF Signal Processing. IEEE Photonics Technology Letters, 2019, 31, 1854-1857.	2.5	75
117	Terahertz control of air lasing. Physical Review A, 2019, 99, .	2.5	4
118	Universal N -Partite d -Level Pure-State Entanglement Witness Based on Realistic Measurement Settings. Physical Review Letters, 2019, 122, 120501.	7.8	21
119	Laser cavity-soliton microcombs. Nature Photonics, 2019, 13, 384-389.	31.4	169
120	Optical force-induced nonlinearity and self-guiding of light in human red blood cell suspensions. Light: Science and Applications, 2019, 8, 31.	16.6	49
121	Astrocombs for extreme-precision spectroscopy. Nature Astronomy, 2019, 3, 135-136.	10.1	7
122	Quantum optical microcombs. Nature Photonics, 2019, 13, 170-179.	31.4	295
123	High performance RF filters via bandwidth scaling with Kerr micro-combs. APL Photonics, 2019, 4, 026102.	5.7	93
124	Reconfigurable photonic RF filters based on integrated Kerr frequency comb sources. , 2019, , .		1
125	Observation of Laser-Cavity Solitons in Micro-Resonators. , 2019, , .		0
126	2D Solitons in P -Symmetric Photonic Lattices. Physical Review Letters, 2019, 123, 253903.	7.8	28

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127	Quantifying the photothermal conversion efficiency of plasmonic nanoparticles by means of terahertz radiation. <i>APL Photonics</i> , 2019, 4, .	5.7	32
128	Molecular Gases for Low Energy Pulse Compression in Hollow Core Fibers. , 2019, , .		0
129	Reconfigurable fractional microwave signal processor based on a microcomb. , 2019, , .		1
130	Complex Quantum State Generation and Coherent Control Based on Integrated Frequency Combs. <i>Journal of Lightwave Technology</i> , 2019, 37, 338-344.	4.6	20
131	Advanced Adaptive Photonic RF Filters with 80 Taps Based on an Integrated Optical Micro-Comb Source. <i>Journal of Lightwave Technology</i> , 2019, 37, 1288-1295.	4.6	104
132	Enhanced Second Harmonic Generation from Ferroelectric HfO ₂ -Based Hybrid Metasurfaces. <i>ACS Nano</i> , 2019, 13, 1213-1222.	14.6	29
133	High-dimensional one-way quantum processing implemented on d-level cluster states. <i>Nature Physics</i> , 2019, 15, 148-153.	16.7	204
134	Broadband photonic RF channelizer based on micro-combs. , 2019, , .		2
135	Highly reconfigurable hybrid laser based on an integrated nonlinear waveguide. <i>Optics Express</i> , 2019, 27, 25251.	3.4	8
136	Extremely broadband terahertz generation via pulse compression of an Ytterbium laser amplifier. <i>Optics Express</i> , 2019, 27, 32659.	3.4	17
137	Optical generation and control of spatial Riemann waves. <i>Optics Letters</i> , 2019, 44, 3542.	3.3	8
138	Kapitza light guiding in photonic mesh lattice. <i>Optics Letters</i> , 2019, 44, 6013.	3.3	16
139	High-dimensional one-way quantum processing enabled by optical d-level cluster states. , 2019, , .		1
140	Microcomb-based photonic local oscillator for broadband microwave frequency conversion. , 2019, , .		2
141	Microcomb-based RF transversal filters. , 2019, , .		1
142	Broadband Local Oscillator Free Photonic Microwave Mixer based on a Coherent Kerr Micro-Comb Source. , 2019, , .		1
143	Layered Graphene Oxide Films for Enhanced Nonlinear Optics in Integrated Waveguides. , 2019, , .		0
144	High-dimensional one-way quantum computation operations with on-chip optical d-level cluster states. , 2019, , .		0

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145	Tunable Photonic RF Bandpass Filters based on an 80 Channel Kerr Micro-Comb Source. , 2019, , .		1
146	Orthogonally polarized optical single sideband generation based on integrated microring resonators. , 2019, , .		1
147	Applications of Kerr Micro-combs to RF Photonics. , 2019, , .		1
148	Microwave and Communications Applications of Microcombs. , 2019, , .		1
149	Low Energy Hollow Core Fiber Pulse Compression Using Molecular Gases. , 2019, , .		0
150	Graphene oxide for enhanced nonlinear optics in integrated waveguides. , 2019, , .		0
151	Waveguides of Light through Red Blood Cells. , 2019, , .		0
152	Enhanced four-wave mixing in hybrid integrated waveguides with graphene oxide. , 2019, , .		0
153	Reconfigurable microwave photonic transversal filter based on an integrated optical micro-comb source. , 2019, , .		2
154	High-performance microwave photonic true time delays based on an integrated optical micro-comb source. , 2019, , .		1
155	Reshaping the phonon energy landscape of nanocrystals inside a terahertz plasmonic nanocavity. Nature Communications, 2018, 9, 763.	12.8	30
156	Broadband RF Channelizer Based on an Integrated Optical Frequency Kerr Comb Source. Journal of Lightwave Technology, 2018, 36, 4519-4526.	4.6	114
157	RF Photonics: An Optical Microcombs™ Perspective. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-20.	2.9	128
158	Micro-combs: A novel generation of optical sources. Physics Reports, 2018, 729, 1-81.	25.6	448
159	Robust controllable FD-FWM based Micro-combs. , 2018, , .		0
160	Customizing supercontinuum generation via on-chip adaptive temporal pulse-splitting. Nature Communications, 2018, 9, 4884.	12.8	59
161	Invited Article: Ultra-broadband terahertz coherent detection via a silicon nitride-based deep sub-wavelength metallic slit. APL Photonics, 2018, 3, 110805.	5.7	11
162	Invited Article: Enhanced four-wave mixing in waveguides integrated with graphene oxide. APL Photonics, 2018, 3, .	5.7	114

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163	Continuously tunable orthogonally polarized RF optical single sideband generator based on micro-ring resonators. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 115701.	2.2	60
164	Molecular gases for pulse compression in hollow core fibers. <i>Optics Express</i> , 2018, 26, 25426.	3.4	17
165	Figure-eight Laser with an Integrated Nonlinear Waveguide: All-optical Square-wave Generation. , 2018, , .		0
166	Generation and coherent manipulation of complex quantum states based on integrated frequency combs. , 2018, , .		0
167	On-chip frequency combs and telecommunications signal processing meet quantum optics. <i>Frontiers of Optoelectronics</i> , 2018, 11, 134-147.	3.7	4
168	Generation of high-field terahertz pulses in an HMQ-TMS organic crystal pumped by an ytterbium laser at 1030 nm. <i>Optics Express</i> , 2018, 26, 2509.	3.4	23
169	Broadband and efficient adiabatic three-wave-mixing in a temperature-controlled bulk crystal. <i>Optics Express</i> , 2018, 26, 4448.	3.4	22
170	Photonic microwave true time delays for phased array antennas using a 49â€™%â€™GHz FSR integrated optical micro-comb source [Invited]. <i>Photonics Research</i> , 2018, 6, B30.	7.0	119
171	Type-II micro-comb generation in a filter-driven four wave mixing laser [Invited]. <i>Photonics Research</i> , 2018, 6, B67.	7.0	33
172	Advanced RF and microwave functions based on an integrated optical frequency comb source. <i>Optics Express</i> , 2018, 26, 2569.	3.4	128
173	Direct compression of 170-fs 50-cycle pulses down to 1.5 cycles with 70% transmission. <i>Scientific Reports</i> , 2018, 8, 11794.	3.3	78
174	Noise Contributions in On-Chip Four-Photon States. , 2018, , .		0
175	Orthogonally Polarized RF Optical Single Sideband Generation and Dual-Channel Equalization Based on an Integrated Microring Resonator. <i>Journal of Lightwave Technology</i> , 2018, 36, 4808-4818.	4.6	75
176	Generation and Coherent Control of Pulsed Quantum Frequency Combs. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0
177	Terahertz microscopy assisted by semiconductor nonlinearities. <i>Optics Letters</i> , 2018, 43, 4997.	3.3	9
178	Integrated generation of complex optical quantum states and their coherent control. , 2018, , .		2
179	Reconfigurable microwave photonic transversal filter based on an integrated Kerr comb. , 2018, , .		0
180	Framework for complex quantum state generation and coherent control based on on-chip frequency combs. , 2018, , .		0

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181	Integrated Kerr optical frequency comb-based broadband RF channelizer. , 2018, , .		0
182	Integrated Kerr comb-based reconfigurable transversal differentiator for microwave photonic signal processing. , 2018, , .		0
183	Microwave and RF Photonic Applications of Integrated Kerr Micro-Combs. , 2018, , .		0
184	On-chip quantum optical frequency comb sources. , 2018, , .		0
185	Integrated Kerr micro-comb sources for photonic microwave applications. , 2018, , .		2
186	Passively mode-locked laser with an ultra-narrow spectral width. Nature Photonics, 2017, 11, 159-162.	31.4	111
187	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. APL Photonics, 2017, 2, 046105.	5.7	17
188	Reconfigurable broadband microwave photonic intensity differentiator based on an integrated optical frequency comb source. APL Photonics, 2017, 2, .	5.7	103
189	Decoupling Frequencies, Amplitudes and Phases in Nonlinear Optics. Scientific Reports, 2017, 7, 7861.	3.3	19
190	Cherenkov Radiation Control via Self-accelerating Wave-packets. Scientific Reports, 2017, 7, 8695.	3.3	18
191	Nonlinear Self-Action of Light through Biological Suspensions. Physical Review Letters, 2017, 119, 058101.	7.8	52
192	Terahertz Thermometry: Combining Hyperspectral Imaging and Temperature Mapping at Terahertz Frequencies. Laser and Photonics Reviews, 2017, 11, 1600342.	8.7	25
193	Integrated sources of photon quantum states based on nonlinear optics. Light: Science and Applications, 2017, 6, e17100-e17100.	16.6	194
194	Generation of complex quantum states via integrated frequency combs. , 2017, , .		0
195	On-chip generation of high-dimensional entangled quantum states and their coherent control. Nature, 2017, 546, 622-626.	27.8	574
196	Terahertz Absorption by Cellulose: Application to Ancient Paper Artifacts. Physical Review Applied, 2017, 7, .	3.8	32
197	Frequency comb assisted characterisation of a filter-driven four wave mixing laser. , 2017, , .		0
198	Microwave and RF applications of micro-combs. , 2017, , .		0

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199	Photonic microwave and RF signal processing based on optical micro-combs. , 2017, , .		0
200	Type II microcomb generation in a filter-driven four wave mixing laser. , 2017, , .		0
201	Four-wave mixing photon pair generation statistics for a nonlinear microcavity with chaotic and pulsed excitation. , 2017, , .		0
202	Reconfigurable microwave photonic differentiator based on an integrated Kerr frequency comb source. , 2017, , .		0
203	Practical system for the generation of pulsed quantum frequency combs. Optics Express, 2017, 25, 18940.	3.4	69
204	Solid-state-biased coherent detection of ultra-broadband terahertz pulses. Optica, 2017, 4, 1358.	9.3	27
205	Multichannel phase-sensitive amplification in a low-loss CMOS-compatible spiral waveguide. Optics Letters, 2017, 42, 4391.	3.3	4
206	Phase-Insensitive Scattering of Terahertz Radiation. Photonics, 2017, 4, 7.	2.0	4
207	Affordable, ultra-broadband coherent detection of terahertz pulses via CMOS-compatible solid-state devices. , 2017, , .		0
208	A passively mode-locked nanosecond laser with an ultra-narrow spectral width. , 2017, , .		0
209	Real time measurements of ultrafast spontaneous modulation instability and rogue waves in optical fibre. , 2017, , .		0
210	Demonstration of on-chip multi-mode phase-sensitive amplification. , 2017, , .		0
211	Novel frontiers in the stabilization of FD-FWM microcombs. , 2017, , .		0
212	On-chip quantum state generation by means of integrated frequency combs. , 2017, , .		0
213	Thermal instability control by four wave mixing in optical microcavities. , 2017, , .		0
214	Pulsed quantum frequency combs from an actively mode-locked intra-cavity generation scheme. , 2017, , .		0
215	Repetition rate controllable filter-driven four wave mixing laser. , 2017, , .		1
216	Linearizing Nonlinear Optics. , 2017, , .		1

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217	Integrated Kerr Comb-based Reconfigurable Transversal Differentiator for Microwave Photonic Signal Processing. , 2017, , .		1
218	Parametric control of thermal self-pulsation in micro-cavities. Optics Letters, 2017, 42, 3407.	3.3	34
219	Real-Time Measurements of Ultrafast Spontaneous Modulation Instability in Optical Fiber. , 2017, , .		0
220	Entanglement generation with integrated optical frequency comb sources. , 2017, , .		0
221	Deep UV pulse shaping at 207nm via Frequency domain Nonlinear Optics (FNO). , 2017, , .		0
222	Efficient Broadband Optical Parametric Amplification in Non-Uniform Bulk Crystals. , 2017, , .		0
223	Optical intensity square root differentiator based on an integrated Kerr frequency comb source. , 2017, , .		0
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