Sai T Chu

List of Publications by Year
in descending order

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360 papers	13,989 citations	20759 60 h-index	24915 109 g-index
363 all docs	363 docs citations	363 times ranked	6934 citing authors

#	Article	IF	Citations
1	Microring resonator channel dropping filters. Journal of Lightwave Technology, 1997, 15, 998-1005.	2.7	1,415
2	On-chip generation of high-dimensional entangled quantum states and their coherent control. Nature, 2017, 546, 622-626.	13.7	574
3	11 TOPS photonic convolutional accelerator for optical neural networks. Nature, 2021, 589, 44-51.	13.7	550
4	CMOS-compatible integrated optical hyper-parametric oscillator. Nature Photonics, 2010, 4, 41-45.	15.6	519
5	Very High-Order Microring Resonator Filters for WDM Applications. IEEE Photonics Technology Letters, 2004, 16, 2263-2265.	1.3	418
6	Generation of multiphoton entangled quantum states by means of integrated frequency combs. Science, 2016, 351, 1176-1180.	6.0	371
7	Optical sensing of biomolecules using microring resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 148-155.	1.9	330
8	Low-power continuous-wave nonlinear optics in doped silica glass integrated waveguide structures. Nature Photonics, 2008, 2, 737-740.	15.6	328
9	An eight-channel add-drop filter using vertically coupled microring resonators over a cross grid. IEEE Photonics Technology Letters, 1999, 11, 691-693.	1.3	261
10	Demonstration of a stable ultrafast laser based on a nonlinear microcavity. Nature Communications, 2012, 3, 765.	5.8	253
11	The finite-difference vector beam propagation method: analysis and assessment. Journal of Lightwave Technology, 1992, 10, 295-305.	2.7	250
12	Surface-roughness-induced contradirectional coupling in ring and disk resonators. Optics Letters, 1997, 22, 4.	1.7	226
13	On-chip CMOS-compatible all-optical integrator. Nature Communications, 2010, 1, 29.	5.8	220
14	Wavelike charge density fluctuations and van der Waals interactions at the nanoscale. Science, 2016, 351, 1171-1176.	6.0	217
15	Microring resonator arrays for VLSI photonics. IEEE Photonics Technology Letters, 2000, 12, 323-325.	1.3	215
16	A universal biosensing platform based on optical micro-ring resonators. Biosensors and Bioelectronics, 2008, 23, 939-944.	5.3	205
17	High-dimensional one-way quantum processing implemented on d-level cluster states. Nature Physics, 2019, 15, 148-153.	6.5	204
18	Insight into the electrochemical activation of carbon-based cathodes for hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 13080-13086.	5.2	198

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19	Ultra-dense optical data transmission over standard fibre with a single chip source. Nature Communications, 2020, 11, 2568.	5.8	192
20	Integrated frequency comb source of heralded single photons. Optics Express, 2014, 22, 6535.	1.7	187
21	Vertically coupled glass microring resonator channel dropping filters. IEEE Photonics Technology Letters, 1999, 11, 215-217.	1.3	169
22	Laser cavity-soliton microcombs. Nature Photonics, 2019, 13, 384-389.	15.6	169
23	Box-like filter response and expansion of FSR by a vertically triple coupled microring resonator filter. Journal of Lightwave Technology, 2002, 20, 1525-1529.	2.7	140
24	Filter synthesis for periodically coupled microring resonators. Optics Letters, 2000, 25, 344.	1.7	138
25	A finite-difference time-domain method for the design and analysis of guided-wave optical structures. Journal of Lightwave Technology, 1989, 7, 2033-2038.	2.7	128
26	Self-locked optical parametric oscillation in a CMOS compatible microring resonator: a route to robust optical frequency comb generation on a chip. Optics Express, 2013, 21, 13333.	1.7	128
27	RF Photonics: An Optical Microcombsâ€™ Perspective. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-20.	1.9	128
28	Advanced RF and microwave functions based on an integrated optical frequency comb source. Optics Express, 2018, 26, 2569.	1.7	128
29	Supercontinuum generation in a high index doped silica glass spiral waveguide. Optics Express, 2010, 18, 923.	1.7	127
30	Sub-picosecond phase-sensitive optical pulse characterization on a chip. Nature Photonics, 2011, 5, 618-623.	15.6	124
31	Low power four wave mixing in an integrated, micro-ring resonator with Q = 12 million. Optics Express, 2009, 17, 14098.	1.7	123
32	Symmetrical and anti-symmetrical coherent perfect absorption for acoustic waves. Applied Physics Letters, 2014, 104, .	1.5	120
33	Photonic microwave true time delays for phased array antennas using a 49â€‰â€‰GHz FSR integrated optical micro-comb source [Invited]. Photonics Research, 2018, 6, B30.	3.4	119
34	Second-order filter response from parallel coupled glass microring resonators. IEEE Photonics Technology Letters, 1999, 11, 1426-1428.	1.3	115
35	All-optical wavelength conversion in an integrated ring resonator. Optics Express, 2010, 18, 3858.	1.7	115
36	Broadband RF Channelizer Based on an Integrated Optical Frequency Kerr Comb Source. Journal of Lightwave Technology, 2018, 36, 4519-4526.	2.7	114

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37	Invited Article: Enhanced four-wave mixing in waveguides integrated with graphene oxide. APL Photonics, 2018, 3, .	3.0	114
38	Efficient self-phase modulation in low loss, high index doped silica glass integrated waveguides. Optics Express, 2009, 17, 1865.	1.7	112
39	Passively mode-locked laser with an ultra-narrow spectral width. Nature Photonics, 2017, 11, 159-162.	15.6	111
40	Efficient wavelength conversion and net parametric gain via Four Wave Mixing in a high index doped silica waveguide. Optics Express, 2010, 18, 7634.	1.7	110
41	Cross-polarized photon-pair generation and bi-chromatically pumped optical parametric oscillation on a chip. Nature Communications, 2015, 6, 8236.	5.8	110
42	Stable, dual mode, high repetition rate mode-locked laser based on a microring resonator. Optics Express, 2012, 20, 27355.	1.7	108
43	Integrating temporal and spatial control of electronic transitions for bright multiphoton upconversion. Nature Communications, 2019, 10, 1811.	5.8	104
44	Advanced Adaptive Photonic RF Filters with 80 Taps Based on an Integrated Optical Micro-Comb Source. Journal of Lightwave Technology, 2019, 37, 1288-1295.	2.7	104
45	Reconfigurable broadband microwave photonic intensity differentiator based on an integrated optical frequency comb source. APL Photonics, 2017, 2, .	3.0	103
46	Subpicosecond optical pulse compression via an integrated nonlinear chirper. Optics Express, 2010, 18, 7625.	1.7	101
47	Integrated frequency comb source based Hilbert transformer for wideband microwave photonic phase analysis. Optics Express, 2015, 23, 22087.	1.7	100
48	Robust soliton crystals in a thermally controlled microresonator. Optics Letters, 2018, 43, 2002.	1.7	100
49	Fully programmable ring-resonator-based integrated photonic circuit for phase coherent applications. Journal of Lightwave Technology, 2006, 24, 77-87.	2.7	99
50	High performance RF filters via bandwidth scaling with Kerr micro-combs. APL Photonics, 2019, 4, 026102.	3.0	93
51	Second-order filtering and sensing with partially coupled traveling waves in a single resonator. Optics Letters, 1998, 23, 1570.	1.7	92
52	A scalar finite-difference time-domain approach to guided-wave optics. IEEE Photonics Technology Letters, 1991, 3, 524-526.	1.3	89
53	Photonic Perceptron Based on a Kerr Microcomb for Highâ€Speed, Scalable, Optical Neural Networks. Laser and Photonics Reviews, 2020, 14, 2000070.	4.4	84
54	Estimating surface-roughness loss and output coupling in microdisk resonators. Optics Letters, 1996, 21, 1390.	1.7	80

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55	Wavelength trimming of a microring resonator filter by means of a UV sensitive polymer overlay. IEEE Photonics Technology Letters, 1999, 11, 688-690.	1.3	80
56	Synthesized soliton crystals. Nature Communications, 2021, 12, 3179.	5.8	77
57	Orthogonally Polarized RF Optical Single Sideband Generation and Dual-Channel Equalization Based on an Integrated Microring Resonator. Journal of Lightwave Technology, 2018, 36, 4808-4818.	2.7	75
58	2D Layered Graphene Oxide Films Integrated with Microâ€Ring Resonators for Enhanced Nonlinear Optics. Small, 2020, 16, e1906563.	5.2	75
59	Cascaded microring resonators for crosstalk reduction and spectrum cleanup in add-drop filters. IEEE Photonics Technology Letters, 1999, 11, 1423-1425.	1.3	74
60	Long-distance ranging with high precision using a soliton microcomb. Photonics Research, 2020, 8, 1964.	3.4	72
61	Multifrequency sources of quantum correlated photon pairs on-chip: a path toward integrated Quantum Frequency Combs. Nanophotonics, 2016, 5, 351-362.	2.9	70
62	Practical system for the generation of pulsed quantum frequency combs. Optics Express, 2017, 25, 18940.	1.7	69
63	Broadband Microwave Frequency Conversion Based on an Integrated Optical Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 332-338.	2.7	67
64	Pedestal antiresonant reflecting waveguides for robust coupling to microsphere resonators and for microphotonic circuits. Optics Letters, 2000, 25, 73.	1.7	66
65	Graphene Oxide Waveguide and Microâ€Ring Resonator Polarizers. Laser and Photonics Reviews, 2019, 13, 1900056.	4.4	66
66	All-optical 1st and 2nd order integration on a chip. Optics Express, 2011, 19, 23153.	1.7	65
67	A semivectorial finite-difference time-domain method (optical guided structure simulation). IEEE Photonics Technology Letters, 1991, 3, 803-806.	1.3	62
68	Deterministic generation and switching of dissipative Kerr soliton in a thermally controlled micro-resonator. AIP Advances, 2019, 9, .	0.6	62
69	Photonic RF Arbitrary Waveform Generator Based on a Soliton Crystal Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 6221-6226.	2.7	62
70	Microwave and RF Photonic Fractional Hilbert Transformer Based on a 50 GHz Kerr Micro-Comb. Journal of Lightwave Technology, 2019, 37, 6097-6104.	2.7	61
71	CMOS compatible integrated all-optical radio frequency spectrum analyzer. Optics Express, 2014, 22, 21488.	1.7	60
72	Continuously tunable orthogonally polarized RF optical single sideband generator based on micro-ring resonators. Journal of Optics (United Kingdom), 2018, 20, 115701.	1.0	60

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73	Customizing supercontinuum generation via on-chip adaptive temporal pulse-splitting. Nature Communications, 2018, 9, 4884.	5.8	59
74	Dual-pump Kerr Micro-cavity Optical Frequency Comb with varying FSR spacing. Scientific Reports, 2016, 6, 28501.	1.6	57
75	Theory of polarization rotation and conversion in vertically coupled microresonators. IEEE Photonics Technology Letters, 2000, 12, 401-403.	1.3	55
76	Photonic RF Phase-Encoded Signal Generation With a Microcomb Source. Journal of Lightwave Technology, 2020, 38, 1722-1727.	2.7	55
77	Simulation and analysis of waveguide based optical integrated circuits. Computer Physics Communications, 1991, 68, 451-484.	3.0	53
78	A vector beam propagation method for guided-wave optics. IEEE Photonics Technology Letters, 1991, 3, 910-913.	1.3	52
79	Precise control of wavelength channel spacing of microring resonator add-drop filter array. Journal of Lightwave Technology, 2002, 20, 745-750.	2.7	51
80	Ultralarge anti-Stokes lasing through tandem upconversion. Nature Communications, 2022, 13, 1032.	5.8	51
81	Parity-time symmetry from stacking purely dielectric and magnetic slabs. Physical Review A, 2015, 91, .	1.0	45
82	RF and Microwave Fractional Differentiator Based on Photonics. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2767-2771.	2.2	44
83	Quantum Key Distribution with Onâ€Chip Dissipative Kerr Soliton. Laser and Photonics Reviews, 2020, 14, 1900190.	4.4	44
84	Temperature insensitive vertically coupled microring resonator add/drop filters by means of a polymer overlay. IEEE Photonics Technology Letters, 1999, 11, 1138-1140.	1.3	43
85	Turing patterns in a fiber laser with a nested microresonator: Robust and controllable microcomb generation. Physical Review Research, 2020, 2, .	1.3	42
86	Broadband Photonic RF Channelizer With 92 Channels Based on a Soliton Crystal Microcomb. Journal of Lightwave Technology, 2020, 38, 5116-5121.	2.7	38
87	Simultaneous enhanced photon capture and carrier generation in Si solar cells using Ge quantum dot photonic nanocrystals. Nanotechnology, 2012, 23, 185401.	1.3	36
88	Parametric control of thermal self-pulsation in micro-cavities. Optics Letters, 2017, 42, 3407.	1.7	34
89	Type-II micro-comb generation in a filter-driven four wave mixing laser [Invited]. Photonics Research, 2018, 6, B67.	3.4	33
90	Continuously Tunable Optical Buffering at 40 Gb/s for Optical Packet Switching Networks. Journal of Lightwave Technology, 2008, 26, 3776-3783.	2.7	32

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91	Repetition Rate Multiplication Pulsed Laser Source Based on a Microring Resonator. ACS Photonics, 2017, 4, 1677-1683.	3.2	32
92	Continuously Tunable, Wavelength-Selective Buffering in Optical Packet Switching Networks. IEEE Photonics Technology Letters, 2008, 20, 1030-1032.	1.3	28
93	Photonic radio frequency channelizers based on Kerr optical micro-combs. Journal of Semiconductors, 2021, 42, 041302.	2.0	28
94	Combining modal analysis and the finite-difference time-domain method in the study of dielectric waveguide problems. IEEE Transactions on Microwave Theory and Techniques, 1990, 38, 1755-1760.	2.9	27
95	Program-controlled single soliton microcomb source. Photonics Research, 2021, 9, 66.	3.4	27
96	Measurement of internal spatial modes and local propagation properties in optical waveguides. Applied Physics Letters, 1999, 75, 2368-2370.	1.5	26
97	Internal spatial modes in glass microring resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 46-53.	1.9	26
98	Self-locked orthogonal polarized dual comb in a microresonator. Photonics Research, 2018, 6, 363.	3.4	25
99	Time-Lens Measurement of Subpicosecond Optical Pulses in CMOS Compatible High-Index Glass Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 629-636.	1.9	24
100	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.	2.2	23
101	Ultrashort optical pulse transmission characteristics of vertically coupled microring resonator add/drop filter. Journal of Lightwave Technology, 2001, 19, 266-271.	2.7	22
102	Portable frequency combs for optical frequency metrology. Optics Express, 2012, 20, 16671.	1.7	22
103	Autonomous on-chip interferometry for reconfigurable optical waveform generation. Optica, 2021, 8, 1268.	4.8	22
104	Polarisation-independent vertically coupled microring resonator filter. Electronics Letters, 2001, 37, 90.	0.5	21
105	Raman self-frequency-shift of soliton crystal in a high index doped silica micro-ring resonator [Invited]. Optical Materials Express, 2018, 8, 2662.	1.6	21
106	Highly Versatile Broadband RF Photonic Fractional Hilbert Transformer Based on a Kerr Soliton Crystal Microcomb. Journal of Lightwave Technology, 2021, 39, 7581-7587.	2.7	21
107	Track changing by use of the phase response of microspheres and resonators. Optics Letters, 1998, 23, 894.	1.7	20
108	Complex Quantum State Generation and Coherent Control Based on Integrated Frequency Combs. Journal of Lightwave Technology, 2019, 37, 338-344.	2.7	20

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109	A scalar coupled-mode theory with vector correction. IEEE Journal of Quantum Electronics, 1992, 28, 184-193.	1.0	18
110	A single channel dropping filter based on a cylindrical microresonator. Optics Communications, 1999, 167, 77-82.	1.0	18
111	Induced Photon Correlations Through the Overlap of Two Fourâ€Wave Mixing Processes in Integrated Cavities. Laser and Photonics Reviews, 2020, 14, 2000128.	4.4	18
112	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. APL Photonics, 2017, 2, 046105.	3.0	17
113	Orthogonally polarized RF optical single sideband generation with integrated ring resonators. Journal of Semiconductors, 2021, 42, 041305.	2.0	17
114	CMOS-compatible high-index doped silica waveguide with an embedded silicon-nanocrystal strip for all-optical analog-to-digital conversion. Photonics Research, 2019, 7, 1200.	3.4	17
115	Vertical Triple Series-Coupled Microring Resonator Filter for Passband Flattening and Expansion of Free Spectral Range. Japanese Journal of Applied Physics, 2002, 41, L141-L143.	0.8	16
116	Soliton Burst and Biâ€Directional Switching in the Platform with Positive Thermalâ€Refractive Coefficient Using an Auxiliary Laser. Laser and Photonics Reviews, 2021, 15, 2100264.	4.4	16
117	A full vector analysis of near-field luminescence probing of a single quantum dot. Applied Physics Letters, 1999, 74, 1507-1509.	1.5	14
118	Theory of loss and gain trimming of resonator-type filters. IEEE Photonics Technology Letters, 2000, 12, 636-638.	1.3	13
119	Optical multi-stability in a nonlinear high-order microring resonator filter. APL Photonics, 2020, 5, .	3.0	13
120	Optical Trapping and Manipulating with a Silica Microring Resonator in a Self-Locked Scheme. Micromachines, 2020, 11, 202.	1.4	13
121	An acoustic beam shifter with enhanced transmission using perforated metamaterials. Europhysics Letters, 2015, 109, 14004.	0.7	11
122	OPTICAL RESONATORS AND FILTERS. Advanced Series in Applied Physics, 2004, , 1-37.	0.0	11
123	Frequency comb swept laser with a high-Q microring filter. Photonics Research, 2020, 8, 904.	3.4	11
124	Broadband generation of photon-pairs from a CMOS compatible device. Applied Physics Letters, 2020, 116, .	1.5	10
125	Third-harmonic generation in CMOS-compatible highly doped silica micro-ring resonator. Optics Express, 2020, 28, 641.	1.7	10
126	IC compatible optical coupling techniques for integration of ARROW with photodetector. Journal of Lightwave Technology, 1998, 16, 1423-1432.	2.7	9

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127	Reduction of filter sidelobe level by an X-crossing vertical coupled ARROW filter. IEEE Photonics Technology Letters, 1998, 10, 391-393.	1.3	9
128	Arbitrary Phase Access for Stable Fiber Interferometers. Laser and Photonics Reviews, 2021, 15, 2000524.	4.4	9
129	59-nm trimming of center wavelength of ARROW-type vertical coupler filter by UV irradiation. IEEE Photonics Technology Letters, 1999, 11, 358-360.	1.3	8
130	High-coupling efficiency vertical ARROW coupler with large tolerance and short coupling length for three-dimensional optical interconnects. IEEE Photonics Technology Letters, 1999, 11, 1006-1008.	1.3	8
131	Metasurface-loaded waveguide for transformation optics applications. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	8
132	Highly reconfigurable hybrid laser based on an integrated nonlinear waveguide. Optics Express, 2019, 27, 25251.	1.7	8
133	Planarization of Film Deposition and Improvement of Channel Structure for Fabrication of Anti-Resonant Reflecting Optical Waveguide Type X-crossing Vertical Coupler Filter. Japanese Journal of Applied Physics, 1998, 37, 3713-3717.	0.8	7
134	Compact ARROW-type vertical coupler filter. IEEE Photonics Technology Letters, 1996, 8, 1492-1494.	1.3	6
135	Polarization effects in near-field excitation - collection probe optical microscopy of a single quantum dot. Journal of Microscopy, 1999, 194, 421-425.	0.8	6
136	Vertical antiresonant reflecting optical waveguide coupler for three-dimensional optical interconnects: optimum design for large tolerance, high coupling efficiency, and short coupling length. Applied Optics, 2000, 39, 426.	2.1	6
137	Coupling-loss reduction of a vertically coupled microring resonator filter by spot-size-matched busline waveguides. Applied Optics, 2002, 41, 4394.	2.1	6
138	All-optical RF spectrum analyzer with a 5 THz bandwidth based on CMOS-compatible high-index doped silica waveguides. Optics Letters, 2021, 46, 1574.	1.7	6
139	Integrated polarizers based on graphene oxide in waveguides and ring resonators. , 2020, , .		6
140	Time-explicit simulation of wave interaction in optical waveguide crossings at large angles. Applied Optics, 1991, 30, 1464.	2.1	5
141	ARROW-type vertical coupler filter: design and fabrication. Journal of Lightwave Technology, 1999, 17, 652-658.	2.7	5
142	Ultra-Fast Integrated All-Optical Integrator. , 2010, , .		5
143	An on-chip photon-pair source with negligible two photon absorption. Applied Physics Express, 2019, 12, 022006.	1.1	5
144	Sidelobe Suppression of Vertical Coupler Filter with an X-Crossing Configuration. Japanese Journal of Applied Physics, 1998, 37, 3708-3712.	0.8	4

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145	Tunable bandwidth microring resonator filters. , 2008, , .		4
146	Multichannel phase-sensitive amplification in a low-loss CMOS-compatible spiral waveguide. Optics Letters, 2017, 42, 4391.	1.7	4
147	On-chip frequency combs and telecommunications signal processing meet quantum optics. Frontiers of Optoelectronics, 2018, 11, 134-147.	1.9	4
148	Versatile stacked ARROW crossconnect for three-dimensional optical interconnects. Electronics Letters, 1995, 31, 33-35.	0.5	3
149	Box-like filter response by vertically series coupled microring resonator filter. , 0, , .		3
150	Variable Slowlight Buffers in All-Optical Packet Switching Routers. , 2008, , .		3
151	A novel integrated laser source without a laser. SPIE Newsroom, 0, , .	0.1	3
152	High Performance, Low-loss Nonlinear Integrated Glass Waveguides. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2010, 6, 283-286.	0.4	3
153	CMOS compatible waveguides for all-optical signal processing. , 2011, , .		2
154	Broadband photonic RF channelizer based on micro-combs. , 2019, , .		2
155	Direct Generation of Orthogonally Polarized Photon Pairs via Spontaneous Non-Degenerate FWM on a Chip. , 2014, , .		2
156	Generation of multi-photon entangled states with integrated optical frequency comb sources. , 2016, , .		2
157	Integrated Kerr micro-comb sources for photonic microwave applications. , 2018, , .		2
158	Microcomb-based photonic local oscillator for broadband microwave frequency conversion. , 2019, , .		2
159	Reconfigurable microwave photonic transversal filter based on an integrated optical micro-comb source. , 2019, , .		2
160	High-Index Doped Silica Glass Planar Lightwave Circuits. , 2021, , .		2
161	Vector beam propagation method based on finite-difference. , 1991, 1583, 268.		1
162	Simulation and fabrication of ARROW directional couplers. , 1995, , .		1

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163	Trapping and manipulating atoms with guided evanescent fields. , 0, , .		1
164	High index contrast photonics platform. , 2005, 6014, 110.		1
165	All-optical variable buffering in optical packet switching networks. , 2008, , .		1
166	Subpicosecond 200GHz soliton laser based on a C-MOS compatible integrated microring resonator. , 2010, , .		1
167	CMOS-Compatible Integrated Multiple Wavelength Laser. Optics and Photonics News, 2010, 21, 36.	0.4	1
168	Monolithic CMOS compatible 1st and 2nd order 400GHz all-optical integrator. , 2011, , .		1
169	Highly Stable 200GHz Soliton Microring Resonator Laser based on Filter-Driven Four Wave Mixing. , 2011, , .		1
170	Stable Dual Mode High Repetition Rate Mode-Locked Laser Based on an Integrated Nonlinear Microring Resonator. , 2012, , .		1
171	A low cost dielectric waveguide platform for sub-mm/THz applications. , 2013, , .		1
172	Characterization of ultra-high repetition rate mode-locked lasers with an integrated all-optical RF spectrum analyzer. , 2014, , .		1
173	Design and Fabrication of a Broadband Millimeter Wave Rectangular-Metallic to Dielectric Rod-Waveguide Adaptor. IEEE Transactions on Terahertz Science and Technology, 2016, , 1-7.	2.0	1
174	Novel ultrafast sources on chip: filter driven four wave mixing lasers, from high repetition rate to burst mode operation. , 2016, , .		1
175	Dynamically unstable regimes and chaos control through Four Wave Mixing in Ring Microresonators. , 2017, , .		1
176	Repetition rate controllable filter-driven four wave mixing laser. , 2017, , .		1
177	Reconfigurable photonic RF filters based on integrated Kerr frequency comb sources. , 2019, , .		1
178	Reconfigurable fractional microwave signal processor based on a microcomb. , 2019, , .		1
179	Thermal Analysis of Visible Emission From Micro-Ring Resonators by Third-Harmonic Generation. IEEE Photonics Technology Letters, 2021, 33, 235-238.	1.3	1
180	Four-wave mixing in silicon-nanocrystal embedded high-index doped silica micro-ring resonator. Journal of Semiconductors, 2021, 42, 042302.	2.0	1

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181	Neuromorphic processing at 11 Tera-OPs with soliton crystal Kerr microcombs. , 2021, , .		1
182	Subpicosecond Ultra High Speed Soliton Laser based on a C-MOS Compatible Integrated Microring Resonator. , 2010, , .		1
183	Integrated Kerr Comb-based Reconfigurable Transversal Differentiator for Microwave Photonic Signal Processing. , 2017, , .		1
184	Efficient wavelength conversion and net parametric gain via FWM in a high index doped silica waveguide. , 2010, , .		1
185	Ultra-Fast On-Chip All-Optical Integration. , 2010, , .		1
186	Ultra High Speed Soliton Laser Based on a C-MOS Compatible Integrated Microring Resonator. , 2010, , .		1
187	CMOS Compatible Monolithic 1st and 2nd Order All-Optical Integrator. , 2012, , .		1
188	Mode-locked laser based on an integrated nonlinear microring resonator generating a dual comb.. , 2012, , .		1
189	Advanced Integrated Photonics in Doped Silica Glass. Springer Series in Optical Sciences, 2012, , 47-92.	0.5	1
190	Narrowband optical wavelength comb by ARROW-type vertical coupler with thick cavity. Electronics Letters, 1997, 33, 1947.	0.5	1
191	Four Wave Mixing in a CMOS Compatible 5th Order Cascaded Ring Resonators. , 2015, , .		1
192	Quadrature Hybrid RF Photonic Coupler Using an Integrated Frequency Comb Source. , 2015, , .		1
193	Low-penalty up to 16-QAM wavelength conversion in a low loss CMOS compatible spiral waveguide. , 2016, , .		1
194	An ultra-narrow spectral width passively mode-locked laser. , 2017, , .		1
195	Tunable Spatiotemporal Soliton Generation in Serially Coupled Dual Micro-Ring Resonators. , 2018, , .		1
196	A Highly Versatile Microwave Photonic Filter Based on an Integrated Optical Frequency Comb Source. , 2018, , .		1
197	Microcomb-based RF transversal filters. , 2019, , .		1
198	Broadband Local Oscillator Free Photonic Microwave Mixer based on a Coherent Kerr Micro-Comb Source. , 2019, , .		1

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199	Tunable Photonic RF Bandpass Filters based on an 80 Channel Kerr Micro-Comb Source. , 2019, , .		1
200	Orthogonally polarized optical single sideband generation based on integrated microring resonators. , 2019, , .		1
201	Applications of Kerr Micro-combs to RF Photonics. , 2019, , .		1
202	Microwave and Communications Applications of Microcombs. , 2019, , .		1
203	High-performance microwave photonic true time delays based on an integrated optical micro-comb source. , 2019, , .		1
204	Reconfigurable microwave signal processor for fractional and regular Hilbert transform based on a microcomb. , 2019, , .		1
205	True time delays for phased array antennas based on a microcomb. , 2019, , .		1
206	Continuously tunable orthogonally polarized RF optical single sideband generator based on cascaded micro-ring resonators. , 2019, , .		1
207	Photonic wideband RF mixer based on an integrated microcomb source. , 2019, , .		1
208	High Q RF transversal filter based on an 80-channel integrated microcomb source. , 2019, , .		1
209	Photonic RF fractional Hilbert transformers and filters based on integrated soliton crystal microcombs. , 2020, , .		1
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