Tobias J Kippenberg

List of Publications by Year
in descending order

240 papers	30,446 citations	10351 72 h-index	5227 165 g-index
249 all docs	249 docs citations	249 times ranked	11425 citing authors

#	Article	IF	Citations
1	Cavity optomechanics. Reviews of Modern Physics, 2014, 86, 1391-1452.	16.4	4,064
2	Optical frequency comb generation from a monolithic microresonator. Nature, 2007, 450, 1214-1217.	13.7	1,686
3	Microresonator-Based Optical Frequency Combs. Science, 2011, 332, 555-559.	6.0	1,685
4	Temporal solitons in optical microresonators. Nature Photonics, 2014, 8, 145-152.	15.6	1,430
5	Optomechanically Induced Transparency. Science, 2010, 330, 1520-1523.	6.0	1,350
6	Dissipative Kerr solitons in optical microresonators. Science, 2018, 361, .	6.0	1,069
7	Microresonator-based solitons for massively parallel coherent optical communications. Nature, 2017, 546, 274-279.	13.7	816
8	Parallel convolutional processing using an integrated photonic tensor core. Nature, 2021, 589, 52-58.	13.7	723
9	Observation of strong coupling between one atom and a monolithic microresonator. Nature, 2006, 443, 671-674.	13.7	662
10	Analysis of Radiation-Pressure Induced Mechanical Oscillation of an Optical Microcavity. Physical Review Letters, 2005, 95, 033901.	2.9	634
11	Photonic-chip-based frequency combs. Nature Photonics, 2019, 13, 158-169.	15.6	618
12	Photonic chipâ€“based optical frequency comb using soliton Cherenkov radiation. Science, 2016, 351, 357-360.	6.0	613
13	Kerr-Nonlinearity Optical Parametric Oscillation in an Ultrahigh-QToroid Microcavity. Physical Review Letters, 2004, 93, 083904.	2.9	551
14	An optical-frequency synthesizer using integrated photonics. Nature, 2018, 557, 81-85.	13.7	550
15	Coherent terabit communications with microresonator Kerr frequency combs. Nature Photonics, 2014, 8, 375-380.	15.6	526
16	Universal formation dynamics and noise of Kerr-frequency combs in microresonators. Nature Photonics, 2012, 6, 480-487.	15.6	521
17	Ultrafast optical ranging using microresonator soliton frequency combs. Science, 2018, 359, 887-891.	6.0	509
18	Temporal Behavior of Radiation-Pressure-Induced Vibrations of an Optical Microcavity Phonon Mode. Physical Review Letters, 2005, 94, 223902.	2.9	468

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19	Near-field cavity optomechanics with nanomechanical oscillators. Nature Physics, 2009, 5, 909-914.	6.5	430
20	Universal dynamics and deterministic switching ofÂdissipative Kerr solitons in optical microresonators. Nature Physics, 2017, 13, 94-102.	6.5	331
21	Massively parallel coherent laser ranging using a soliton microcomb. Nature, 2020, 581, 164-170.	13.7	325
22	Modal coupling in traveling-wave resonators. Optics Letters, 2002, 27, 1669.	1.7	321
23	Integrated turnkey soliton microcombs. Nature, 2020, 582, 365-369.	13.7	295
24	Octave Spanning Tunable Frequency Comb from a Microresonator. Physical Review Letters, 2011, 107, 063901.	2.9	289
25	Mid-infrared optical frequency combs at 2.5â€‰Î¼m based on crystalline microresonators. Nature Communications, 2013, 4, 1345.	5.8	250
26	Measurement-based control of a mechanical oscillator at its thermal decoherence rate. Nature, 2015, 524, 325-329.	13.7	245
27	Photonic Damascene process for integrated high-Q microresonator based nonlinear photonics. Optica, 2016, 3, 20.	4.8	243
28	Frequency comb assisted diode laser spectroscopy for measurement of microcavity dispersion. Nature Photonics, 2009, 3, 529-533.	15.6	231
29	Mode Spectrum and Temporal Soliton Formation in Optical Microresonators. Physical Review Letters, 2014, 113, 123901.	2.9	231
30	Nonreciprocal reconfigurable microwave optomechanical circuit. Nature Communications, 2017, 8, 604.	5.8	231
31	Photonic microwave generation in the X- and K-band using integrated soliton microcombs. Nature Photonics, 2020, 14, 486-491.	15.6	229
32	Elastic strain engineering for ultralow mechanical dissipation. Science, 2018, 360, 764-768.	6.0	219
33	A microphotonic astrocomb. Nature Photonics, 2019, 13, 31-35.	15.6	215
34	Octave-spanning dissipative Kerr soliton frequency combs in Si_3N_4 microresonators. Optica, 2017, 4, 684.	4.8	208
35	Molecular cavity optomechanics as a theory of plasmon-enhanced Raman scattering. Nature Nanotechnology, 2016, 11, 164-169.	15.6	206
36	Mid-infrared frequency comb via coherent dispersive wave generation in silicon nitride nanophotonic waveguides. Nature Photonics, 2018, 12, 330-335.	15.6	201

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37	Raman Self-Frequency Shift of Dissipative Kerr Solitons in an Optical Microresonator. Physical Review Letters, 2016, 116, 103902.	2.9	187
38	Integrated gallium phosphide nonlinear photonics. Nature Photonics, 2020, 14, 57-62.	15.6	185
39	Demonstration of ultra-high-Q small mode volume toroid microcavities on a chip. Applied Physics Letters, 2004, 85, 6113-6115.	1.5	174
40	Laser soliton microcombs heterogeneously integrated on silicon. Science, 2021, 373, 99-103.	6.0	173
41	Electrically pumped photonic integrated soliton microcomb. Nature Communications, 2019, 10, 680.	5.8	160
42	Ultralow-threshold erbium-implanted toroidal microlaser on silicon. Applied Physics Letters, 2004, 84, 1037-1039.	1.5	158
43	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. Nature Communications, 2021, 12, 2236.	5.8	157
44	Ultralow-threshold microcavity Raman laser on a microelectronic chip. Optics Letters, 2004, 29, 1224.	1.7	153
45	Slowing, advancing and switching of microwave signals using circuit nanoelectromechanics. Nature Physics, 2013, 9, 179-184.	6.5	150
46	Dynamics of soliton crystals in optical microresonators. Nature Physics, 2019, 15, 1071-1077.	6.5	148
47	Ultra-smooth silicon nitride waveguides based on the Damascene reflow process: fabrication and loss origins. Optica, 2018, 5, 884.	4.8	147
48	Frequency combs and platicons in optical microresonators with normal GVD. Optics Express, 2015, 23, 7713.	1.7	146
49	Ultralow-power chip-based soliton microcombs for photonic integration. Optica, 2018, 5, 1347.	4.8	143
50	Breathing dissipative solitons in optical microresonators. Nature Communications, 2017, 8, 736.	5.8	139
51	Determination of the vacuum optomechanical coupling rate using frequency noise calibration. Optics Express, 2010, 18, 23236.	1.7	137
52	Mid infrared gas spectroscopy using efficient fiber laser driven photonic chip-based supercontinuum. Nature Communications, 2019, 10, 1553.	5.8	133
53	Controlling free electrons with optical whispering-gallery modes. Nature, 2020, 582, 46-49.	13.7	132
54	Measuring nanomechanical motion with an imprecision below the standard quantum limit. Physical Review A, 2010, 82, .	1.0	131

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55	Fabrication and coupling to planar high-Q silica disk microcavities. Applied Physics Letters, 2003, 83, 797-799.	1.5	129
56	Quantum-Limited Directional Amplifiers with Optomechanics. Physical Review Letters, 2018, 120, 023601.	2.9	120
57	Heterogeneous integration of lithium niobate and silicon nitride waveguides for wafer-scale photonic integrated circuits on silicon. Optics Letters, 2017, 42, 803.	1.7	116
58	Monolithic piezoelectric control of soliton microcombs. Nature, 2020, 583, 385-390.	13.7	109
59	Photonic Damascene Process for Low-Loss, High-Confinement Silicon Nitride Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-11.	1.9	101
60	Spatial multiplexing of soliton microcombs. Nature Photonics, 2018, 12, 699-705.	15.6	100
61	Ultralow-noise photonic microwave synthesis using a soliton microcomb-based transfer oscillator. Nature Communications, 2020, 11, 374.	5.8	97
62	Self-referenced photonic chip soliton Kerr frequency comb. Light: Science and Applications, 2017, 6, e16202-e16202.	7.7	95
63	A photonic integrated circuitâ€“based erbium-doped amplifier. Science, 2022, 376, 1309-1313.	6.0	95
64	Bringing short-lived dissipative Kerr soliton states in microresonators into a steady state. Optics Express, 2016, 24, 29312.	1.7	90
65	Dispersion engineering of thick high-Q silicon nitride ring-resonators via atomic layer deposition. Optics Express, 2012, 20, 27661.	1.7	88
66	Dynamics of soliton self-injection locking in optical microresonators. Nature Communications, 2021, 12, 235.	5.8	86
67	Large second harmonic generation enhancement in Si3N4 waveguides by all-optically induced quasi-phase-matching. Nature Communications, 2017, 8, 1016.	5.8	85
68	Soliton dual frequency combs in crystalline microresonators. Optics Letters, 2017, 42, 514.	1.7	81
69	Counting the cycles of light using a self-referenced optical microresonator. Optica, 2015, 2, 706.	4.8	80
70	A dissipative quantum reservoir for microwave light using a mechanical oscillator. Nature Physics, 2017, 13, 787-793.	6.5	76
71	From the Lugiatoâ€“Lefever equation to microresonator-based soliton Kerr frequency combs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20180113.	1.6	76
72	Thermorefractive noise in silicon-nitride microresonators. Physical Review A, 2019, 99, .	1.0	74

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73	Integrated photonics enables continuous-beam electron phase modulation. Nature, 2021, 600, 653-658.	13.7	74
74	On-chip microwave-to-optical quantum coherent converter based on a superconducting resonator coupled to an electro-optic microresonator. Physical Review A, 2016, 94, .	1.0	72
75	Observation of Stimulated Brillouin Scattering in Silicon Nitride Integrated Waveguides. Physical Review Letters, 2020, 124, 013902.	2.9	67
76	Magnetic-free silicon nitride integrated optical isolator. Nature Photonics, 2021, 15, 828-836.	15.6	67
77	Higher order mode suppression in high-Q anomalous dispersion SiN microresonators for temporal dissipative Kerr soliton formation. Optics Letters, 2016, 41, 452.	1.7	65
78	Hybrid integrated photonics using bulk acoustic resonators. Nature Communications, 2020, 11, 3073.	5.8	65
79	Continuous-wave frequency upconversion with a molecular optomechanical nanocavity. Science, 2021, 374, 1264-1267.	6.0	63
80	Photonic chip-based soliton frequency combs covering the biological imaging window. Nature Communications, 2018, 9, 1146.	5.8	62
81	Spectral Purification of Microwave Signals with Disciplined Dissipative Kerr Solitons. Physical Review Letters, 2019, 122, 013902.	2.9	58
82	Coupling Ideality of Integrated Planar High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>Microresonators. Physical Review Applied, 2017, 7, .	1.5	57
83	Emergent nonlinear phenomena in a driven dissipative photonic dimer. Nature Physics, 2021, 17, 604-610.	6.5	57
84	Heteronuclear soliton molecules in optical microresonators. Nature Communications, 2020, 11, 2402.	5.8	56
85	Laser Cooling of a Nanomechanical Oscillator to Its Zero-Point Energy. Physical Review Letters, 2020, 124, 173601.	2.9	55
86	Appearance and Disappearance of Quantum Correlations in Measurement-Based Feedback Control of a Mechanical Oscillator. Physical Review X, 2017, 7, .	2.8	52
87	Double inverse nanotapers for efficient light coupling to integrated photonic devices. Optics Letters, 2018, 43, 3200.	1.7	50
88	Optical backaction-evading measurement of a mechanical oscillator. Nature Communications, 2019, 10, 2086.	5.8	49
89	Harmonization of chaos into a soliton in Kerr frequency combs. Optics Express, 2016, 24, 27382.	1.7	48
90	Near-Field Integration of a SiN Nanobeam and a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Microcavity for Heisenberg-Limited Displacement Sensing. Physical Review Applied, 2016, 5, .	1.5	48

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91	Excitonic Emission of Monolayer Semiconductors Near-Field Coupled to High-Q Microresonators. Nano Letters, 2018, 18, 3138-3146.	4.5	48
92	Detuning-dependent properties and dispersion-induced instabilities of temporal dissipative Kerr solitons in optical microresonators. Physical Review A, 2017, 95, .	1.0	47
93	Generalized dissipation dilution in strained mechanical resonators. Physical Review B, 2019, 99, .	1.1	47
94	Plasmomechanical Resonators Based on Dimer Nanoantennas. Nano Letters, 2015, 15, 3971-3976.	4.5	45
95	Soliton microcomb based spectral domain optical coherence tomography. Nature Communications, 2021, 12, 427.	5.8	45
96	A cryogenic electro-optic interconnect for superconducting devices. Nature Electronics, 2021, 4, 326-332.	13.1	43
97	Nanophotonic supercontinuum-based mid-infrared dual-comb spectroscopy. Optica, 2020, 7, 1181.	4.8	43
98	Roadmap on multimode light shaping. Journal of Optics (United Kingdom), 2022, 24, 013001.	1.0	41
99	Radiation hardness of high-Q silicon nitride microresonators for space compatible integrated optics. Optics Express, 2014, 22, 30786.	1.7	39
100	Platicon microcomb generation using laser self-injection locking. Nature Communications, 2022, 13, 1771.	5.8	39
101	Low-noise frequency-agile photonic integrated lasers for coherent ranging. Nature Communications, 2022, 13, .	5.8	39
102	Radiation and Internal Loss Engineering of High-Stress Silicon Nitride Nanobeams. Nano Letters, 2017, 17, 3501-3505.	4.5	38
103	Reconfigurable radiofrequency filters based on versatile soliton microcombs. Nature Communications, 2020, 11, 4377.	5.8	38
104	High-rate photon pairs and sequential Time-Bin entanglement with Si₃N₄ microring resonators. Optics Express, 2019, 27, 19309.	1.7	38
105	Compact, spatial-mode-interaction-free, ultralow-loss, nonlinear photonic integrated circuits. Communications Physics, 2022, 5, .	2.0	36
106	Performance of chip-scale optical frequency comb generators in coherent WDM communications. Optics Express, 2020, 28, 12897.	1.7	35
107	Thermally stable access to microresonator solitons via slow pump modulation. Optics Letters, 2019, 44, 4447.	1.7	35
108	Photonic chip-based resonant supercontinuum via pulse-driven Kerr microresonator solitons. Optica, 2021, 8, 771.	4.8	33

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109	Orthogonally polarized frequency comb generation from a Kerr comb via cross-phase modulation. Optics Letters, 2019, 44, 1472.	1.7	32
110	Frequency-comb-assisted broadband precision spectroscopy with cascaded diode lasers. Optics Letters, 2016, 41, 3134.	1.7	31
111	Fractal-like Mechanical Resonators with a Soft-Clamped Fundamental Mode. Physical Review Letters, 2020, 124, 025502.	2.9	31
112	Ultrafast optical circuit switching for data centers using integrated soliton microcombs. Nature Communications, 2021, 12, 5867.	5.8	31
113	Strained crystalline nanomechanical resonators with quality factors above 10 billion. Nature Physics, 2022, 18, 436-441.	6.5	31
114	Nonlinear states and dynamics in a synthetic frequency dimension. Physical Review A, 2020, 102, .	1.0	30
115	Gain-switched semiconductor laser driven soliton microcombs. Nature Communications, 2021, 12, 1425.	5.8	27
116	Probing material absorption and optical nonlinearity of integrated photonic materials. Nature Communications, 2022, 13, .	5.8	27
117	Parallel gas spectroscopy using mid-infrared supercontinuum from a single Si₃N₄ waveguide. Optics Letters, 2020, 45, 2195.	1.7	26
118	Clamp-Tapering Increases the Quality Factor of Stressed Nanobeams. Nano Letters, 2019, 19, 2329-2333.	4.5	25
119	Intrinsic luminescence blinking from plasmonic nanojunctions. Nature Communications, 2021, 12, 2731.	5.8	25
120	Near ultraviolet photonic integrated lasers based on silicon nitride. APL Photonics, 2022, 7, .	3.0	25
121	Molecular Platform for Frequency Upconversion at the Single-Photon Level. Physical Review X, 2020, 10, .	2.8	24
122	Low-Loss Integrated Nanophotonic Circuits with Layered Semiconductor Materials. Nano Letters, 2021, 21, 2709-2718.	4.5	24
123	Phase noise measurement of external cavity diode lasers and implications for optomechanical sideband cooling of GHz mechanical modes. New Journal of Physics, 2013, 15, 015019.	1.2	23
124	A strongly coupled Î›-type micromechanical system. Applied Physics Letters, 2016, 108, .	1.5	23
125	Visible-near-middle infrared spanning supercontinuum generation in a silicon nitride (Si₃N₄) waveguide. Optical Materials Express, 2019, 9, 2553.	1.6	23
126	Microwave-to-optical conversion with a gallium phosphide photonic crystal cavity. Nature Communications, 2022, 13, 2065.	5.8	23

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127	All-optical stabilization of a soliton frequency comb in a crystalline microresonator. Optics Letters, 2015, 40, 4723.	1.7	21
128	Dependence of a microresonator Kerr frequency comb on the pump linewidth. Optics Letters, 2017, 42, 779.	1.7	21
129	Formation Rules and Dynamics of Photoinduced Ï‡⁽²⁾ Gratings in Silicon Nitride Waveguides. ACS Photonics, 2020, 7, 147-153.	3.2	21
130	Frequency division using a soliton-injected semiconductor gain-switched frequency comb. Science Advances, 2020, 6, .	4.7	21
131	Hierarchical tensile structures with ultralow mechanical dissipation. Nature Communications, 2022, 13, .	5.8	21
132	Highly efficient coupling of crystalline microresonators to integrated photonic waveguides. Optics Letters, 2018, 43, 2106.	1.7	20
133	Second- and third-order nonlinear wavelength conversion in an all-optically poled Si₃N₄ waveguide. Optics Letters, 2019, 44, 106.	1.7	20
134	Dissipative Kerr solitons in a photonic dimer on both sides of exceptional point. Communications Physics, 2021, 4, .	2.0	18
135	Chip-based soliton microcomb module using a hybrid semiconductor laser. Optics Express, 2020, 28, 2714.	1.7	18
136	Dual chirped microcomb based parallel ranging at megapixel-line rates. Nature Communications, 2022, 13, .	5.8	18
137	Dual-pump generation of high-coherence primary Kerr combs with multiple sub-lines. Optics Letters, 2017, 42, 595.	1.7	17
138	Polychromatic Cherenkov Radiation Induced Group Velocity Symmetry Breaking in Counterpropagating Dissipative Kerr Solitons. Physical Review Letters, 2019, 123, 253902.	2.9	16
139	Protected generation of dissipative Kerr solitons in supermodes of coupled optical microresonators. Science Advances, 2022, 8, eabm6982.	4.7	16
140	Perimeter Modes of Nanomechanical Resonators Exhibit Quality Factors Exceeding <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mn>10</mml:mn></mml:mrow><mml:mrow><mml:mn>9</mml:mn></m at Room Temperature. Physical Review X, 2022, 12, .	2.8	16
141	Demonstration of Multiple Kerr-Frequency-Comb Generation Using Different Lines From Another Kerr Comb Located Up To 50 km Away. Journal of Lightwave Technology, 2019, 37, 579-584.	2.7	15
142	Formation and Collision of Multistability-Enabled Composite Dissipative Kerr Solitons. Physical Review X, 2020, 10, .	2.8	15
143	Thermal intermodulation noise in cavity-based measurements. Optica, 2020, 7, 1609.	4.8	15
144	Pump-linewidth-tolerant wavelength multicasting using soliton Kerr frequency combs. Optics Letters, 2017, 42, 3177.	1.7	14

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145	Floquet dynamics in the quantum measurement of mechanical motion. Physical Review A, 2019, 100, .	1.0	13
146	Scalable and reconfigurable optical tapped-delay-line for multichannel equalization and correlation using nonlinear wave mixing and a Kerr frequency comb. Optics Letters, 2018, 43, 5563.	1.7	13
147	Two-Tone Optomechanical Instability and Its Fundamental Implications for Backaction-Evading Measurements. Physical Review X, 2019, 9, .	2.8	12
148	Monolithic piezoelectric control of soliton microcombs. , 2020, , .		12
149	Reconfigurable optical generation of nine Nyquist WDM channels with sinc-shaped temporal pulse trains using a single microresonator-based Kerr frequency comb. Optics Letters, 2019, 44, 1852.	1.7	11
150	Tunable insertion of multiple lines into a Kerr frequency comb using electro-optical modulators. Optics Letters, 2017, 42, 3765.	1.7	10
151	Broadband quasi-phase-matching in dispersion-engineered all-optically poled silicon nitride waveguides. Photonics Research, 2020, 8, 1475.	3.4	10
152	Effects of erbium-doped fiber amplifier induced pump noise on soliton Kerr frequency combs for 64-quadrature amplitude modulation transmission. Optics Letters, 2018, 43, 2495.	1.7	8
153	Difference-frequency generation in optically poled silicon nitride waveguides. Nanophotonics, 2021, 10, 1923-1930.	2.9	7
154	Polarization selective ultra-broadband wavelength conversion in silicon nitride waveguides. Optics Express, 2022, 30, 4342.	1.7	7
155	Microresonator Dissipative Kerr Solitons Synchronized to an Optoelectronic Oscillator. Physical Review Applied, 2022, 17, .	1.5	7
156	Synthesis of near-diffraction-free orbital-angular-momentum space-time wave packets having a controllable group velocity using a frequency comb. Optics Express, 2022, 30, 16712.	1.7	7
157	320 GHz Analog-to-Digital Converter Exploiting Kerr Soliton Combs and Photonic-Electronic Spectral Stitching. , 2021, , .		6
158	Dissipative Quantum Feedback in Measurements Using a Parametrically Coupled Microcavity. PRX Quantum, 2022, 3, .	3.5	6
159	Dynamics of soliton crystals in optical microresonators. , 2017, , .		4
160	PORT: A piezoelectric optical resonance tuner. , 2018, , .		4
161	Nonreciprocity in Microwave Optomechanical Circuits. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1983-1987.	2.4	4
162	Low-noise, Frequency-agile, Hybrid Integrated Lasers for LiDAR. , 2021, , .		4

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163	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. , 2021, , .		3
164	Coherent terahertz-to-microwave link using electro-optic-modulated Turing rolls. Physical Review A, 2021, 104, .	1.0	3
165	Heteronuclear Soliton Molecules in Optical Microresonators. , 2019, , .		3
166	Electrically driven photonic integrated soliton microcomb. , 2019, , .		3
167	Quantum Motional Sideband Asymmetry in the Presence of Kerr-Type Nonlinearities. , 2018, , .		2
168	Symmetry protection against mode crossings in multimode photonic resonator chains. , 2021, , .		2
169	Nanofabrication meets open science. Nature Nanotechnology, 2021, 16, 850-852.	15.6	2
170	Hybrid Si3N4-LiNbO3 integrated platform for electro-optic conversion. , 2020, , .		2
171	Laser Self-Injection Locked Frequency Combs in a Normal GVD Integrated Microresonator. , 2020, , .		2
172	Force metrology using quantum correlations of light due to a room-temperature mechanical oscillator. , 2017, , .		1
173	Chip-based frequency combs for wavelength-division multiplexing applications. , 2020, , 51-102.		1
174	Megapixel per second hardware efficient LiDAR based on microcombs. , 2021, , .		1
175	Automated wide-ranged finely tunable microwave cavity for narrowband phase noise filtering. Review of Scientific Instruments, 2021, 92, 034710.	0.6	1
176	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. , 2021, , .		1
177	Time-resolved detection of phase-coherent biphoton frequency combs from Si3N4 microring. , 2021, , .		1
178	Gain-switched semiconductor laser driven soliton microcombs. , 2021, , .		1
179	X-Band Aom on Chip. , 2021, , .		1
180	Wafer-scale fabrication of ultralow-loss silicon nitride nonlinear photonic circuits. , 2020, , .		1

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181	Integrated turnkey soliton microcombs operated at CMOS frequencies. , 2020, , .		1
182	Monolithic piezoelectric control of integrated soliton microcombs. , 2020, , .		1
183	Thermo-refractive noise in silicon nitride microresonators. , 2019, , .		1
184	Spectral multiplexing of dissipative Kerr solitons in a single optical microresonator. , 2020, , .		1
185	Massively parallel coherent LiDAR using dissipative Kerr solitons. , 2020, , .		1
186	Microresonator Dual-Comb Coherent FMCW LiDAR. , 2020, , .		1
187	Dynamics of Soliton Microcomb Self-Injection Locking in a Silicon Nitride Microresonator. , 2020, , .		1
188	Kramersâ€“Kronig detection of four 20â€‰â€‰Gbaud 16-QAM channels using Kerr combs for a shared phase estimation. Optics Letters, 2020, 45, 1794.	1.7	1
189	FABRICATION, COUPLING AND NONLINEAR OPTICS OF ULTRA-HIGH-Q MICRO-SPHERE AND CHIP-BASED TOROID MICROCAVITIES. Advanced Series in Applied Physics, 2004, , 177-238.	0.0	0
190	Recent advances on nonlinear optics in Silicon Nitride waveguides. , 2017, , .		0
191	Nonreciprocal Reconfigurable Microwave Optomechanical Circuit. , 2018, , .		0
192	Ultralow-Power Photonic Chip-Based Soliton Frequency Combs. , 2018, , .		0
193	Elastic Strain Engineering for Ultralow Mechanical Dissipation. , 2018, , .		0
194	Microresonator Soliton Frequency Comb. , 2018, , .		0
195	Backaction-Evading Measurement of Mechanical Motion in the Optical Domain. , 2018, , .		0
196	Spatially-Multiplexed Solitons in Optical Microresonators. , 2018, , .		0
197	In memory of Mikhail Gorodetsky. Nature Photonics, 2019, 13, 506-508.	15.6	0
198	Optically Probed Time Dynamics of Ï‡(2) Grating Inscription in SiN Waveguides. , 2019, , .		0

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199	Photonic Integrated Microwave Oscillator Based on Silicon Nitride Soliton Microcomb. , 2019, , .		0
200	Properties of Broadband Soliton Microcombs in Pulse-Driven Integrated Microresonators. , 2019, , .		0
201	Photonic Chip-Based Soliton Microcomb Driven by a Compact Ultra-Low-Noise Laser. , 2019, , .		0
202	Nanophotonic Supercontinuum-Based Mid-Infrared Dual-Comb Spectroscopy. , 2019, , .		0
203	Microresonator soliton based massively parallel coherent LiDAR. , 2020, , .		0
204	Continuous-wave electron-photon interactions using chip-based high-Q Si3N4 microresonator. , 2021, , .		0
205	Actuation bandwidth extension of an integrated piezo-optomechanical nanophotonic device. , 2021, , .		0
206	Symmetry protection against mode crossings for dissipative Kerr soliton generation in microresonator chains. , 2021, , .		0
207	Zero-dispersion solitons in microresonators with octave-spanning dispersive wave formation. , 2021, , .		0
208	Optical Gyrator and Microwave-to-Optical Converter using HBAR modes. , 2021, , .		0
209	Continuous-wave electron-light interaction in high-Q whispering gallery microresonators. , 2021, , .		0
210	Low-noise, Frequency-agile, Hybrid Integrated Laser for LiDAR. , 2021, , .		0
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