

Junqiu Liu

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,670
citations

20
h-index

40
g-index

99
ext. papers

3,080
ext. citations

16.7
avg, IF

5.2
L-index

#	Paper	IF	Citations
50	Polarization selective ultra-broadband wavelength conversion in silicon nitride waveguides.. <i>Optics Express</i> , 2022 , 30, 4342-4350	3.3	2
49	Compact, spatial-mode-interaction-free, ultralow-loss, nonlinear photonic integrated circuits. <i>Communications Physics</i> , 2022 , 5,	5.4	6
48	Platicon microcomb generation using laser self-injection locking.. <i>Nature Communications</i> , 2022 , 13, 1771	17.4	8
47	Protected generation of dissipative Kerr solitons in supermodes of coupled optical microresonators.. <i>Science Advances</i> , 2022 , 8, eabm6982	14.3	1
46	Integrated photonics enables continuous-beam electron phase modulation.. <i>Nature</i> , 2021 , 600, 653-658	50.4	4
45	Magnetic-free silicon nitride integrated optical isolator. <i>Nature Photonics</i> , 2021 , 15, 828-836	33.9	14
44	Ultrafast optical circuit switching for data centers using integrated soliton microcombs. <i>Nature Communications</i> , 2021 , 12, 5867	17.4	5
43	Low-Loss Integrated Nanophotonic Circuits with Layered Semiconductor Materials. <i>Nano Letters</i> , 2021 , 21, 2709-2718	11.5	10
42	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. <i>Nature Communications</i> , 2021 , 12, 2236	17.4	38
41	Photonic chip-based resonant supercontinuum via pulse-driven Kerr microresonator solitons. <i>Optica</i> , 2021 , 8, 771	8.6	7
40	Laser soliton microcombs heterogeneously integrated on silicon. <i>Science</i> , 2021 , 373, 99-103	33.3	37
39	Dynamics of soliton self-injection locking in optical microresonators. <i>Nature Communications</i> , 2021 , 12, 235	17.4	19
38	Soliton microcomb based spectral domain optical coherence tomography. <i>Nature Communications</i> , 2021 , 12, 427	17.4	7
37	Parallel convolutional processing using an integrated photonic tensor core. <i>Nature</i> , 2021 , 589, 52-58	50.4	177
36	Emergent nonlinear phenomena in a driven dissipative photonic dimer. <i>Nature Physics</i> , 2021 , 17, 604-610	6.2	9
35	Gain-switched semiconductor laser driven soliton microcombs. <i>Nature Communications</i> , 2021 , 12, 1425	17.4	11
34	Massively parallel coherent laser ranging using a soliton microcomb. <i>Nature</i> , 2020 , 581, 164-170	50.4	99

33	Integrated turnkey soliton microcombs. <i>Nature</i> , 2020 , 582, 365-369	50.4	111
32	Hybrid integrated photonics using bulk acoustic resonators. <i>Nature Communications</i> , 2020 , 11, 3073	17.4	29
31	Wafer-scale fabrication of ultralow-loss silicon nitride nonlinear photonic circuits 2020 ,		1
30	Hybrid Si3N4-LiNbO3 integrated platform for electro-optic conversion 2020 ,		2
29	Laser Self-Injection Locked Frequency Combs in a Normal GVD Integrated Microresonator 2020 ,		1
28	Chip-based soliton microcomb module using a hybrid semiconductor laser. <i>Optics Express</i> , 2020 , 28, 2714-2721	4.3	11
27	Nanophotonic supercontinuum-based mid-infrared dual-comb spectroscopy. <i>Optica</i> , 2020 , 7, 1181	8.6	16
26	Broadband quasi-phase-matching in dispersion-engineered all-optically poled silicon nitride waveguides. <i>Photonics Research</i> , 2020 , 8, 1475	6	5
25	Dynamics of Soliton Microcomb Self-Injection Locking in a Silicon Nitride Microresonator 2020 ,		1
24	Observation of Stimulated Brillouin Scattering in Silicon Nitride Integrated Waveguides. <i>Physical Review Letters</i> , 2020 , 124, 013902	7.4	33
23	Frequency division using a soliton-injected semiconductor gain-switched frequency comb. <i>Science Advances</i> , 2020 , 6,	14.3	8
22	Monolithic piezoelectric control of soliton microcombs. <i>Nature</i> , 2020 , 583, 385-390	50.4	40
21	Reconfigurable radiofrequency filters based on versatile soliton microcombs. <i>Nature Communications</i> , 2020 , 11, 4377	17.4	11
20	Photonic microwave generation in the X- and K-band using integrated soliton microcombs. <i>Nature Photonics</i> , 2020 , 14, 486-491	33.9	94
19	Dynamics of soliton crystals in optical microresonators. <i>Nature Physics</i> , 2019 , 15, 1071-1077	16.2	71
18	Electrically pumped photonic integrated soliton microcomb. <i>Nature Communications</i> , 2019 , 10, 680	17.4	72
17	Thermorefractive noise in silicon-nitride microresonators. <i>Physical Review A</i> , 2019 , 99,	2.6	34
16	Thermally stable access to microresonator solitons via slow pump modulation. <i>Optics Letters</i> , 2019 , 44, 4447-4450	3	12

15	Visible-near-middle infrared spanning supercontinuum generation in a silicon nitride (Si ₃ N ₄) waveguide. <i>Optical Materials Express</i> , 2019 , 9, 2553	2.6	18
14	Nanophotonic supercontinuum based mid-infrared dual-comb spectroscopy 2019 ,		1
13	A microphotonic astrocomb. <i>Nature Photonics</i> , 2019 , 13, 31-35	33.9	114
12	Photonic chip-based soliton frequency combs covering the biological imaging window. <i>Nature Communications</i> , 2018 , 9, 1146	17.4	42
11	Highly efficient coupling of crystalline microresonators to integrated photonic waveguides. <i>Optics Letters</i> , 2018 , 43, 2106-2109	3	7
10	Double inverse nanotapers for efficient light coupling to integrated photonic devices. <i>Optics Letters</i> , 2018 , 43, 3200-3203	3	31
9	Ultra-smooth silicon nitride waveguides based on the Damascene reflow process: fabrication and loss origins. <i>Optica</i> , 2018 , 5, 884	8.6	85
8	Ultralow-power chip-based soliton microcombs for photonic integration. <i>Optica</i> , 2018 , 5, 1347	8.6	83
7	2018 ,		1
6	Photonic Damascene process with reflow step for ultra-smooth Si ₃ N ₄ waveguides 2018 ,		1
5	Photonic Damascene Process for Low-Loss, High-Confinement Silicon Nitride Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-11	3.8	54
4	Coupling Ideality of Integrated Planar High-Q Microresonators. <i>Physical Review Applied</i> , 2017 , 7,	4.3	42
3	Intermode Breather Solitons in Optical Microresonators. <i>Physical Review X</i> , 2017 , 7,	9.1	16
2	Octave-spanning dissipative Kerr soliton frequency combs in Si ₃ N ₄ microresonators. <i>Optica</i> , 2017 , 4, 684	8.6	132
1	Frequency-comb-assisted broadband precision spectroscopy with cascaded diode lasers. <i>Optics Letters</i> , 2016 , 41, 3134-7	3	15