

# Junqiu Liu

## List of Publications by Citations

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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	Parallel convolutional processing using an integrated photonic tensor core. <i>Nature</i> , <b>2021</b> , 589, 52-58	50.4	177
49	Octave-spanning dissipative Kerr soliton frequency combs in Si <sub>3</sub> N <sub>4</sub> microresonators. <i>Optica</i> , <b>2017</b> , 4, 684	8.6	132
48	A microphotonic astrocomb. <i>Nature Photonics</i> , <b>2019</b> , 13, 31-35	33.9	114
47	Integrated turnkey soliton microcombs. <i>Nature</i> , <b>2020</b> , 582, 365-369	50.4	111
46	Massively parallel coherent laser ranging using a soliton microcomb. <i>Nature</i> , <b>2020</b> , 581, 164-170	50.4	99
45	Photonic microwave generation in the X- and K-band using integrated soliton microcombs. <i>Nature Photonics</i> , <b>2020</b> , 14, 486-491	33.9	94
44	Ultra-smooth silicon nitride waveguides based on the Damascene reflow process: fabrication and loss origins. <i>Optica</i> , <b>2018</b> , 5, 884	8.6	85
43	Ultralow-power chip-based soliton microcombs for photonic integration. <i>Optica</i> , <b>2018</b> , 5, 1347	8.6	83
42	Electrically pumped photonic integrated soliton microcomb. <i>Nature Communications</i> , <b>2019</b> , 10, 680	17.4	72
41	Dynamics of soliton crystals in optical microresonators. <i>Nature Physics</i> , <b>2019</b> , 15, 1071-1077	16.2	71
40	Photonic Damascene Process for Low-Loss, High-Confinement Silicon Nitride Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-11	3.8	54
39	Coupling Ideality of Integrated Planar High-Q Microresonators. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	42
38	Photonic chip-based soliton frequency combs covering the biological imaging window. <i>Nature Communications</i> , <b>2018</b> , 9, 1146	17.4	42
37	Monolithic piezoelectric control of soliton microcombs. <i>Nature</i> , <b>2020</b> , 583, 385-390	50.4	40
36	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. <i>Nature Communications</i> , <b>2021</b> , 12, 2236	17.4	38
35	Laser soliton microcombs heterogeneously integrated on silicon. <i>Science</i> , <b>2021</b> , 373, 99-103	33.3	37
34	Thermorefractive noise in silicon-nitride microresonators. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	34

33	Observation of Stimulated Brillouin Scattering in Silicon Nitride Integrated Waveguides. <i>Physical Review Letters</i> , <b>2020</b> , 124, 013902	7.4	33
32	Double inverse nanotapers for efficient light coupling to integrated photonic devices. <i>Optics Letters</i> , <b>2018</b> , 43, 3200-3203	3	31
31	Hybrid integrated photonics using bulk acoustic resonators. <i>Nature Communications</i> , <b>2020</b> , 11, 3073	17.4	29
30	Dynamics of soliton self-injection locking in optical microresonators. <i>Nature Communications</i> , <b>2021</b> , 12, 235	17.4	19
29	Visible-near-middle infrared spanning supercontinuum generation in a silicon nitride (Si <sub>3</sub> N <sub>4</sub> ) waveguide. <i>Optical Materials Express</i> , <b>2019</b> , 9, 2553	2.6	18
28	Intermode Breather Solitons in Optical Microresonators. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	16
27	Nanophotonic supercontinuum-based mid-infrared dual-comb spectroscopy. <i>Optica</i> , <b>2020</b> , 7, 1181	8.6	16
26	Frequency-comb-assisted broadband precision spectroscopy with cascaded diode lasers. <i>Optics Letters</i> , <b>2016</b> , 41, 3134-7	3	15
25	Magnetic-free silicon nitride integrated optical isolator. <i>Nature Photonics</i> , <b>2021</b> , 15, 828-836	33.9	14
24	Thermally stable access to microresonator solitons via slow pump modulation. <i>Optics Letters</i> , <b>2019</b> , 44, 4447-4450	3	12
23	Chip-based soliton microcomb module using a hybrid semiconductor laser. <i>Optics Express</i> , <b>2020</b> , 28, 2714-2721	5.3	11
22	Reconfigurable radiofrequency filters based on versatile soliton microcombs. <i>Nature Communications</i> , <b>2020</b> , 11, 4377	17.4	11
21	Gain-switched semiconductor laser driven soliton microcombs. <i>Nature Communications</i> , <b>2021</b> , 12, 1425	17.4	11
20	Low-Loss Integrated Nanophotonic Circuits with Layered Semiconductor Materials. <i>Nano Letters</i> , <b>2021</b> , 21, 2709-2718	11.5	10
19	Emergent nonlinear phenomena in a driven dissipative photonic dimer. <i>Nature Physics</i> , <b>2021</b> , 17, 604-610	6.2	9
18	Frequency division using a soliton-injected semiconductor gain-switched frequency comb. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	8
17	Platicon microcomb generation using laser self-injection locking.. <i>Nature Communications</i> , <b>2022</b> , 13, 1771	17.4	8
16	Highly efficient coupling of crystalline microresonators to integrated photonic waveguides. <i>Optics Letters</i> , <b>2018</b> , 43, 2106-2109	3	7

15	Photonic chip-based resonant supercontinuum via pulse-driven Kerr microresonator solitons. <i>Optica</i> , <b>2021</b> , 8, 771	8.6	7
14	Soliton microcomb based spectral domain optical coherence tomography. <i>Nature Communications</i> , <b>2021</b> , 12, 427	17.4	7
13	Compact, spatial-mode-interaction-free, ultralow-loss, nonlinear photonic integrated circuits. <i>Communications Physics</i> , <b>2022</b> , 5,	5.4	6
12	Broadband quasi-phase-matching in dispersion-engineered all-optically poled silicon nitride waveguides. <i>Photonics Research</i> , <b>2020</b> , 8, 1475	6	5
11	Ultrafast optical circuit switching for data centers using integrated soliton microcombs. <i>Nature Communications</i> , <b>2021</b> , 12, 5867	17.4	5
10	Integrated photonics enables continuous-beam electron phase modulation.. <i>Nature</i> , <b>2021</b> , 600, 653-658	50.4	4
9	Polarization selective ultra-broadband wavelength conversion in silicon nitride waveguides.. <i>Optics Express</i> , <b>2022</b> , 30, 4342-4350	3.3	2
8	Hybrid Si3N4-LiNbO3 integrated platform for electro-optic conversion <b>2020</b> ,		2
7	Wafer-scale fabrication of ultralow-loss silicon nitride nonlinear photonic circuits <b>2020</b> ,		1
6	Laser Self-Injection Locked Frequency Combs in a Normal GVD Integrated Microresonator <b>2020</b> ,		1
5	Dynamics of Soliton Microcomb Self-Injection Locking in a Silicon Nitride Microresonator <b>2020</b> ,		1
4	Nanophotonic supercontinuum based mid-infrared dual-comb spectroscopy <b>2019</b> ,		1
3	<b>2018</b> ,		1
2	Photonic Damascene process with reflow step for ultra-smooth Si3N4 waveguides <b>2018</b> ,		1
1	Protected generation of dissipative Kerr solitons in supermodes of coupled optical microresonators.. <i>Science Advances</i> , <b>2022</b> , 8, eabm6982	14.3	1