

# Xingchen Ji

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2530616/xingchen-ji-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

52  
papers

1,798  
citations

20  
h-index

42  
g-index

107  
ext. papers

2,648  
ext. citations

9.4  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
52	Robust, efficient, micrometre-scale phase modulators at visible wavelengths. <i>Nature Photonics</i> , <b>2021</b> , 15, 908-913	33.9	9
51	Synchronization of nonsolitonic Kerr combs. <i>Science Advances</i> , <b>2021</b> , 7, eabi4362	14.3	3
50	Parametric sideband generation in CMOS-compatible oscillators from visible to telecom wavelengths. <i>Optica</i> , <b>2021</b> , 8, 316	8.6	6
49	Methods to achieve ultra-high quality factor silicon nitride resonators. <i>APL Photonics</i> , <b>2021</b> , 6, 071101	5.2	13
48	Conversion efficiency of soliton Kerr combs. <i>Optics Letters</i> , <b>2021</b> , 46, 3657-3660	3	6
47	Exploiting Ultralow Loss Multimode Waveguides for Broadband Frequency Combs. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000353	8.3	20
46	Soliton-effect compression of picosecond pulses on a photonic chip. <i>Optics Letters</i> , <b>2021</b> , 46, 4706-4709	3	3
45	Millimeter-scale chip-based supercontinuum generation for optical coherence tomography. <i>Science Advances</i> , <b>2021</b> , 7, eabg8869	14.3	6
44	Near-Degenerate Quadrature-Squeezed Vacuum Generation on a Silicon-Nitride Chip. <i>Physical Review Letters</i> , <b>2020</b> , 124, 193601	7.4	34
43	Reconfigurable nanophotonic silicon probes for sub-millisecond deep-brain optical stimulation. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 223-231	19	46
42	Frequency-Domain Quantum Interference with Correlated Photons from an Integrated Microresonator. <i>Physical Review Letters</i> , <b>2020</b> , 124, 143601	7.4	18
41	Robust Hybrid III-V/Si <sub>3</sub> N <sub>4</sub> Laser with kHz-Linewidth and GHz-Pulling Range <b>2020</b> ,		4
40	Performance scaling of a 10-GHz solid-state laser enabling self-referenced CEO frequency detection without amplification. <i>Optics Express</i> , <b>2020</b> , 28, 12755-12770	3.3	9
39	Chip-scale blue light phased array. <i>Optics Letters</i> , <b>2020</b> , 45, 1934-1937	3	36
38	Large-scale optical phased array using a low-power multi-pass silicon photonic platform. <i>Optica</i> , <b>2020</b> , 7, 3	8.6	87
37	Visible nonlinear photonics via high-order-mode dispersion engineering. <i>Optica</i> , <b>2020</b> , 7, 135	8.6	27
36	Robust Miniature Pure-Phase Modulators at $\lambda = 488$ nm <b>2020</b> ,		1

35	Frequency-Domain Quantum Interference with Correlated Photons from an Integrated Microresonator <b>2020</b> ,			1
34	Visible nonlinear photonics via high-order-mode dispersion engineering: publisher's note. <i>Optica</i> , <b>2020</b> , 7, 198	8.6		
33	Universal Conversion Efficiency Scaling with Free-Spectral-Range for Soliton Kerr Combs <b>2020</b> ,			1
32	Demonstration of chip-based coupled degenerate optical parametric oscillators for realizing a nanophotonic spin-glass. <i>Nature Communications</i> , <b>2020</b> , 11, 4119	17.4	19	
31	On-chip tunable photonic delay line. <i>APL Photonics</i> , <b>2019</b> , 4, 090803	5.2	16	
30	Strong Nonlinear Coupling in a Si <sub>3</sub> N <sub>4</sub> Ring Resonator. <i>Physical Review Letters</i> , <b>2019</b> , 122, 153906	7.4	16	
29	Observation of Arnold Tongues in Coupled Soliton Kerr Frequency Combs. <i>Physical Review Letters</i> , <b>2019</b> , 123, 153901	7.4	10	
28	High Quality Factor PECVD Si <sub>3</sub> N <sub>4</sub> Ring Resonators Compatible with CMOS Process <b>2019</b> ,			2
27	Tightly locked optical frequency comb from a semiconductor disk laser. <i>Optics Express</i> , <b>2019</b> , 27, 1786-1797	3.9	12	
26	Chip-based frequency comb sources for optical coherence tomography. <i>Optics Express</i> , <b>2019</b> , 27, 19896-19905	3.9	13	
25	Turn-key, high-efficiency Kerr comb source. <i>Optics Letters</i> , <b>2019</b> , 44, 4475-4478	3	38	
24	Coupled Degenerate Parametric Oscillators Towards Photonic Coherent Ising Machine <b>2019</b> ,			1
23	Near-Visible Microresonator-Based Soliton Combs <b>2019</b> ,			1
22	Micron-scale, Efficient, Robust Phase Modulators in the Visible <b>2019</b> ,			2
21	On-chip dual-comb source for spectroscopy. <i>Science Advances</i> , <b>2018</b> , 4, e1701858	14.3	155	
20	Gas-Phase Microresonator-Based Comb Spectroscopy without an External Pump Laser. <i>ACS Photonics</i> , <b>2018</b> , 5, 2780-2785	6.3	16	
19	512-Element Actively Steered Silicon Phased Array for Low-Power LIDAR <b>2018</b> ,			27
18	Silicon nitride waveguide enables self-referenced frequency comb from a semiconductor disk laser <b>2018</b> ,			1

17	Synchronization of coupled optical microresonators. <i>Nature Photonics</i> , <b>2018</b> , 12, 688-693	33.9	45
16	Battery-operated integrated frequency comb generator. <i>Nature</i> , <b>2018</b> , 562, 401-405	50.4	245
15	Carrier envelope offset detection via simultaneous supercontinuum and second-harmonic generation in a silicon nitride waveguide. <i>Optics Letters</i> , <b>2018</b> , 43, 4627-4630	3	27
14	Counter-rotating cavity solitons in a silicon nitride microresonator. <i>Optics Letters</i> , <b>2018</b> , 43, 547-550	3	26
13	Breather soliton dynamics in microresonators. <i>Nature Communications</i> , <b>2017</b> , 8, 14569	17.4	76
12	Compact narrow-linewidth integrated laser based on a low-loss silicon nitride ring resonator. <i>Optics Letters</i> , <b>2017</b> , 42, 4541-4544	3	78
11	Coherent, directional supercontinuum generation. <i>Optics Letters</i> , <b>2017</b> , 42, 4466-4469	3	24
10	Ultra-low-loss on-chip resonators with sub-milliwatt parametric oscillation threshold. <i>Optica</i> , <b>2017</b> , 4, 619	8.6	233
9	Low-loss silicon platform for broadband mid-infrared photonics. <i>Optica</i> , <b>2017</b> , 4, 707	8.6	105
8	Self-referenced CEO Frequency Detection of a Semiconductor Disk Laser using a Silicon Nitride Waveguide <b>2017</b> ,		1
7	Coherent Supercontinuum Generation with Picosecond Pulses <b>2017</b> ,		1
6	Sidewall Roughness in Si3N4 Waveguides Directly Measured by Atomic Force Microscopy <b>2017</b> ,		2
5	Dual-comb Spectroscopy using On-chip Mode-locked Frequency Combs <b>2017</b> ,		2
4	Broadband Frequency Comb Generation in the Near-Visible using Higher-Order Modes in Silicon Nitride Microresonators <b>2017</b> ,		2
3	Dynamics of mode-coupling-induced microresonator frequency combs in normal dispersion. <i>Optics Express</i> , <b>2016</b> , 24, 28794-28803	3.3	27
2	Thermally controlled comb generation and soliton modelocking in microresonators. <i>Optics Letters</i> , <b>2016</b> , 41, 2565-8	3	182
1	Modeling and simulation of bulk heterojunction polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 127, 67-86	6.4	49