

Xingchen Ji

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2530616/xingchen-ji-publications-by-citations.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	Battery-operated integrated frequency comb generator. <i>Nature</i> , 2018 , 562, 401-405	50.4	245
51	Ultra-low-loss on-chip resonators with sub-milliwatt parametric oscillation threshold. <i>Optica</i> , 2017 , 4, 619	8.6	233
50	Thermally controlled comb generation and soliton modelocking in microresonators. <i>Optics Letters</i> , 2016 , 41, 2565-8	3	182
49	On-chip dual-comb source for spectroscopy. <i>Science Advances</i> , 2018 , 4, e1701858	14.3	155
48	Low-loss silicon platform for broadband mid-infrared photonics. <i>Optica</i> , 2017 , 4, 707	8.6	105
47	Large-scale optical phased array using a low-power multi-pass silicon photonic platform. <i>Optica</i> , 2020 , 7, 3	8.6	87
46	Compact narrow-linewidth integrated laser based on a low-loss silicon nitride ring resonator. <i>Optics Letters</i> , 2017 , 42, 4541-4544	3	78
45	Breather soliton dynamics in microresonators. <i>Nature Communications</i> , 2017 , 8, 14569	17.4	76
44	Modeling and simulation of bulk heterojunction polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 127, 67-86	6.4	49
43	Reconfigurable nanophotonic silicon probes for sub-millisecond deep-brain optical stimulation. <i>Nature Biomedical Engineering</i> , 2020 , 4, 223-231	19	46
42	Synchronization of coupled optical microresonators. <i>Nature Photonics</i> , 2018 , 12, 688-693	33.9	45
41	Turn-key, high-efficiency Kerr comb source. <i>Optics Letters</i> , 2019 , 44, 4475-4478	3	38
40	Chip-scale blue light phased array. <i>Optics Letters</i> , 2020 , 45, 1934-1937	3	36
39	Near-Degenerate Quadrature-Squeezed Vacuum Generation on a Silicon-Nitride Chip. <i>Physical Review Letters</i> , 2020 , 124, 193601	7.4	34
38	512-Element Actively Steered Silicon Phased Array for Low-Power LIDAR 2018 ,		27
37	Visible nonlinear photonics via high-order-mode dispersion engineering. <i>Optica</i> , 2020 , 7, 135	8.6	27
36	Dynamics of mode-coupling-induced microresonator frequency combs in normal dispersion. <i>Optics Express</i> , 2016 , 24, 28794-28803	3.3	27

35	Carrier envelope offset detection via simultaneous supercontinuum and second-harmonic generation in a silicon nitride waveguide. <i>Optics Letters</i> , 2018 , 43, 4627-4630	3	27
34	Counter-rotating cavity solitons in a silicon nitride microresonator. <i>Optics Letters</i> , 2018 , 43, 547-550	3	26
33	Coherent, directional supercontinuum generation. <i>Optics Letters</i> , 2017 , 42, 4466-4469	3	24
32	Exploiting Ultralow Loss Multimode Waveguides for Broadband Frequency Combs. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000353	8.3	20
31	Demonstration of chip-based coupled degenerate optical parametric oscillators for realizing a nanophotonic spin-glass. <i>Nature Communications</i> , 2020 , 11, 4119	17.4	19
30	Frequency-Domain Quantum Interference with Correlated Photons from an Integrated Microresonator. <i>Physical Review Letters</i> , 2020 , 124, 143601	7.4	18
29	On-chip tunable photonic delay line. <i>APL Photonics</i> , 2019 , 4, 090803	5.2	16
28	Strong Nonlinear Coupling in a Si ₃ N ₄ Ring Resonator. <i>Physical Review Letters</i> , 2019 , 122, 153906	7.4	16
27	Gas-Phase Microresonator-Based Comb Spectroscopy without an External Pump Laser. <i>ACS Photonics</i> , 2018 , 5, 2780-2785	6.3	16
26	Chip-based frequency comb sources for optical coherence tomography. <i>Optics Express</i> , 2019 , 27, 19896-19905	5.9	13
25	Methods to achieve ultra-high quality factor silicon nitride resonators. <i>APL Photonics</i> , 2021 , 6, 071101	5.2	13
24	Tightly locked optical frequency comb from a semiconductor disk laser. <i>Optics Express</i> , 2019 , 27, 1786-1797	3.7	12
23	Observation of Arnold Tongues in Coupled Soliton Kerr Frequency Combs. <i>Physical Review Letters</i> , 2019 , 123, 153901	7.4	10
22	Performance scaling of a 10-GHz solid-state laser enabling self-referenced CEO frequency detection without amplification. <i>Optics Express</i> , 2020 , 28, 12755-12770	3.3	9
21	Robust, efficient, micrometre-scale phase modulators at visible wavelengths. <i>Nature Photonics</i> , 2021 , 15, 908-913	33.9	9
20	Parametric sideband generation in CMOS-compatible oscillators from visible to telecom wavelengths. <i>Optica</i> , 2021 , 8, 316	8.6	6
19	Conversion efficiency of soliton Kerr combs. <i>Optics Letters</i> , 2021 , 46, 3657-3660	3	6
18	Millimeter-scale chip-based supercontinuum generation for optical coherence tomography. <i>Science Advances</i> , 2021 , 7, eabg8869	14.3	6

17	Robust Hybrid III-V/Si ₃ N ₄ Laser with kHz-Linewidth and GHz-Pulling Range 2020 ,	4
16	Synchronization of nonsolitonic Kerr combs. <i>Science Advances</i> , 2021 , 7, eabi4362	14.3 3
15	Soliton-effect compression of picosecond pulses on a photonic chip. <i>Optics Letters</i> , 2021 , 46, 4706-4709	3 3
14	Sidewall Roughness in Si ₃ N ₄ Waveguides Directly Measured by Atomic Force Microscopy 2017 ,	2
13	Dual-comb Spectroscopy using On-chip Mode-locked Frequency Combs 2017 ,	2
12	Broadband Frequency Comb Generation in the Near-Visible using Higher-Order Modes in Silicon Nitride Microresonators 2017 ,	2
11	High Quality Factor PECVD Si ₃ N ₄ Ring Resonators Compatible with CMOS Process 2019 ,	2
10	Micron-scale, Efficient, Robust Phase Modulators in the Visible 2019 ,	2
9	Self-referenced CEO Frequency Detection of a Semiconductor Disk Laser using a Silicon Nitride Waveguide 2017 ,	1
8	Coherent Supercontinuum Generation with Picosecond Pulses 2017 ,	1
7	Robust Miniature Pure-Phase Modulators at $\lambda = 488$ nm 2020 ,	1
6	Frequency-Domain Quantum Interference with Correlated Photons from an Integrated Microresonator 2020 ,	1
5	Silicon nitride waveguide enables self-referenced frequency comb from a semiconductor disk laser 2018 ,	1
4	Coupled Degenerate Parametric Oscillators Towards Photonic Coherent Ising Machine 2019 ,	1
3	Near-Visible Microresonator-Based Soliton Combs 2019 ,	1
2	Universal Conversion Efficiency Scaling with Free-Spectral-Range for Soliton Kerr Combs 2020 ,	1
1	Visible nonlinear photonics via high-order-mode dispersion engineering: publisher's note. <i>Optica</i> , 2020 , 7, 198	8.6