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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.

78
papers

3,579
citations

25
h-index

59
g-index

112
ext. papers

4,611
ext. citations

7.7
avg, IF

5.7
L-index

#	Paper	IF	Citations
78	Silicon Photonics. <i>Journal of Lightwave Technology</i> , 2006 , 24, 4600-4615	4	933
77	Demonstration of a silicon Raman laser. <i>Optics Express</i> , 2004 , 12, 5269-73	3.3	548
76	High-throughput single-microparticle imaging flow analyzer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11630-5	11.5	258
75	Deep Learning in Label-free Cell Classification. <i>Scientific Reports</i> , 2016 , 6, 21471	4.9	249
74	Time stretch and its applications. <i>Nature Photonics</i> , 2017 , 11, 341-351	33.9	182
73	The third-order nonlinear optical coefficients of Si, Ge, and Si _{1-x} Ge _x in the midwave and longwave infrared. <i>Journal of Applied Physics</i> , 2011 , 110, 011301	2.5	125
72	Theory of amplified dispersive Fourier transformation. <i>Physical Review A</i> , 2009 , 80,	2.6	120
71	Digitally synthesized beat frequency multiplexing for sub-millisecond fluorescence microscopy. <i>Nature Photonics</i> , 2013 , 7, 806-810	33.9	95
70	Prospects for Silicon Mid-IR Raman Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1618-1627	3.8	69
69	Amplified dispersive Fourier-transform imaging for ultrafast displacement sensing and barcode reading. <i>Applied Physics Letters</i> , 2008 , 93, 131109	3.4	61
68	Time-stretch LiDAR as a spectrally scanned time-of-flight ranging camera. <i>Nature Photonics</i> , 2020 , 14, 14-18	33.9	56
67	High-speed nanometer-resolved imaging vibrometer and velocimeter. <i>Applied Physics Letters</i> , 2011 , 98, 101107	3.4	55
66	Photonic time-stretch digitizer and its extension to real-time spectroscopy and imaging. <i>Laser and Photonics Reviews</i> , 2013 , 7, 207-263	8.3	47
65	Nonlinear absorption in silicon and the prospects of mid-infrared silicon Raman lasers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, R38-R40	1.6	40
64	Can silicon change photonics?. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 213-224	3.7	37
63	Optical data compression in time stretch imaging. <i>PLoS ONE</i> , 2015 , 10, e0125106	3.7	35
62	Distortion Cancellation in Time-Stretch Analog-to-Digital Converter. <i>Journal of Lightwave Technology</i> , 2007 , 25, 3716-3721	4	35

61	Deep Cytometry: Deep learning with Real-time Inference in Cell Sorting and Flow Cytometry. <i>Scientific Reports</i> , 2019 , 9, 11088	4.9	34
60	All-dielectric photonic-assisted radio front-end technology. <i>Nature Photonics</i> , 2007 , 1, 535-538	33.9	32
59	Edge detection in digital images using dispersive phase stretch transform. <i>International Journal of Biomedical Imaging</i> , 2015 , 2015, 687819	5.2	29
58	Real-time optical reflectometry enabled by amplified dispersive Fourier transformation. <i>Applied Physics Letters</i> , 2008 , 93, 031106	3.4	27
57	Two-Photon Photovoltaic Effect in Silicon. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1211-1217	2	27
56	Photonic Bandwidth Compression Front End for Digital Oscilloscopes. <i>Journal of Lightwave Technology</i> , 2009 , 27, 5073-5077	4	26
55	Tera-sample per second real-time waveform digitizer. <i>Applied Physics Letters</i> , 2005 , 87, 241116	3.4	23
54	Experimental demonstration of optical real-time data compression. <i>Applied Physics Letters</i> , 2014 , 104, 111101	3.4	22
53	Noise Figure of Silicon Raman Amplifiers. <i>Journal of Lightwave Technology</i> , 2008 , 26, 847-852	4	21
52	Spectro-temporal encoded multiphoton microscopy and fluorescence lifetime imaging at kilohertz frame-rates. <i>Nature Communications</i> , 2020 , 11, 2062	17.4	17
51	Design of Warped Stretch Transform. <i>Scientific Reports</i> , 2015 , 5, 17148	4.9	15
50	Sculpting of three-dimensional nano-optical structures in silicon. <i>Applied Physics Letters</i> , 2003 , 83, 4909-4911	3.4	15
49	Demonstration of Raman gain at 800 nm in single-mode fiber and its potential application to biological sensing and imaging. <i>Applied Physics Letters</i> , 2009 , 95, 251101	3.4	12
48	150 GS/s real-time oscilloscope using a photonic front end 2008 ,		12
47	Ultra-wideband instantaneous frequency estimation. <i>IEEE Instrumentation and Measurement Magazine</i> , 2015 , 18, 26-30	1.4	11
46	Feature Enhancement in Visually Impaired Images. <i>IEEE Access</i> , 2018 , 6, 1407-1415	3.5	11
45	Influence of Pump-to-Signal RIN Transfer on Noise Figure in Silicon Raman Amplifiers. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 2021-2023	2.2	10
44	Broadband Raman amplification in silicon. <i>Applied Physics Letters</i> , 2008 , 93, 191105	3.4	10

43	Applications of Electro-optic Polymers in Photonics. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 413, 147		10
42	Coherent Optical Multiple-Input Multiple-Output communication. <i>IEICE Electronics Express</i> , 2004 , 1, 392-397		9
41	Spectral dynamics on saturable absorber in mode-locking with time stretch spectroscopy. <i>Scientific Reports</i> , 2020 , 10, 14460	4.9	8
40	Phase stretch transform for super-resolution localization microscopy. <i>Biomedical Optics Express</i> , 2016 , 7, 4198-4209	3.5	7
39	Digitally synthesized beat frequency-multiplexed fluorescence lifetime spectroscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 4428-36	3.5	6
38	All-Dielectric Wireless Receiver. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		6
37	Enhancing electrooptic modulators using modulation instability. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 566-570	2.5	5
36	Impact of Optical Nonlinearity on Performance of Photonic Time-Stretch Analog-to-Digital Converter. <i>Journal of Lightwave Technology</i> , 2011 , 29, 2025-2030	4	5
35	4-Channel Continuous-Time 77 GSa/s ADC using Photonic Bandwidth Compression 2007 ,		5
34	Warped time lens in temporal imaging for optical real-time data compression. <i>Science Bulletin</i> , 2014 , 59, 2649-2654		4
33	Image compression using the Anamorphic Stretch Transform 2013 ,		4
32	Cross-layer signal monitoring in an optical packet-switching test-bed via real-time burst sampling 2010 ,		4
31	Breaking Speed and Sensitivity Limits. <i>Optik & Photonik</i> , 2010 , 5, 32-36		4
30	Continuous time realization of time-stretch ADC 2006 ,		4
29	Raman induced wavelength conversion in scaled Silicon waveguides. <i>IEICE Electronics Express</i> , 2004 , 1, 298-304	0.5	4
28	Demonstration of V_{π} Reduction in Electrooptic Modulators Using Modulation Instability. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-9	1.8	3
27	First Demonstration of a Cross-Layer Enabled Network Node. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1512-1525	4	3
26	Stress-induced $\chi^{(2)}$ in silicon [Comparison between theoretical and experimental values 2009 ,		3

25	Stress-induced phase matching in Silicon waveguides 2006,		3
24	Two-Dimensional Spatio-Temporal Signal Processing for Dispersion Compensation in Time-Stretched ADC. <i>Journal of Lightwave Technology</i> , 2007 , 25, 1580-1587	4	3
23	Context-Aware Image Compression. <i>PLoS ONE</i> , 2016 , 11, e0158201	3-7	3
22	Invited Article: Optical dynamic range compression. <i>APL Photonics</i> , 2018 , 3, 110806	5-2	3
21	Time-stretch accelerated processor for real-time, in-service, signal analysis 2014,		2
20	Digital broadband linearization of analog optical links 2012,		2
19	High efficiency CARS conversion in silicon 2008,		2
18	Demonstration of CW Raman gain with zero electrical power dissipation in p-i-n silicon waveguides 2006,		2
17	Multilayer 3-D Photonics in Silicon 2007,		2
16	Signal De-convolution with analog logarithmic computing primitives in silicon photonics 2016,		1
15	Matrix Analysis of Warped Stretch Imaging. <i>Scientific Reports</i> , 2017 , 7, 11150	4-9	1
14	High-throughput biological cell classification featuring real-time optical data compression 2015,		1
13	Dielectric Field Enhancer for Reconfiguring the Beam Pattern and Gain of an Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 4426-4429	4-9	1
12	Serial Time Encoded Amplified Microscopy (STEAM) for high-throughput detection of rare cells 2010,		1
11	Periodically-Poled Silicon 2009,		1
10	Optically tunable silicon RF antenna 2008,		1
9	Extreme value statistics in silicon photonics 2008,		1
8	All-Dielectric Photonic-Assisted Wireless Receiver. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007,		1

7	Broadband Raman amplification in silicon. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007,</i>		1
6	Phase Diversity Electro-optic Sampling: A new approach to single-shot terahertz waveform recording.. <i>Light: Science and Applications, 2022, 11, 14</i>	16.7	1
5	Nonlinear Schrodinger Kernel for hardware acceleration of machine learning. <i>Journal of Lightwave Technology, 2022, 1-1</i>	4	1
4	Multi-mode Mid-IR Silicon Raman Amplifiers. <i>Materials Research Society Symposia Proceedings, 2006, 958, 1</i>		0
3	Experimental Demonstration of Time-Bandwidth Expansion Using Warped Stretch Transform. <i>IEEE Photonics Journal, 2015, 7, 1-10</i>	1.8	
2	Silicon Lasers147-189		
1	Nanoscale Strain Mapping in SIMOX 3-D Sculpted Silicon Waveguides Using Tip-Enhanced Raman Spectroscopy. <i>IEEE Photonics Journal, 2016, 8, 1-12</i>	1.8	