Ming Li

List of Publications by Year
in descending order

135 papers	3,442 citations	172457 29 h-index	161849 54 g-index
135 all docs	135 docs citations	135 times ranked	1937 citing authors

#	Article	IF	Citations
1	A fully reconfigurable photonic integrated signal processor. Nature Photonics, 2016, 10, 190-195.	31.4	329
2	Integrated waveguide Bragg gratings for microwave photonics signal processing. Optics Express, 2013, 21, 25120.	3.4	183
3	A Narrow-Passband and Frequency-Tunable Microwave Photonic Filter Based on Phase-Modulation to Intensity-Modulation Conversion Using a Phase-Shifted Fiber Bragg Grating. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1287-1296.	4.6	167
4	Breaking the limitation of mode building time in an optoelectronic oscillator. Nature Communications, 2018, 9, 1839.	12.8	140
5	An integrated parity-time symmetric wavelength-tunable single-mode microring laser. Nature Communications, 2017, 8, 15389.	12.8	102
6	Microwave Photonics for Optical Sensors. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 327-339.	2.9	98
7	Wideband dynamic microwave frequency identification system using a low-power ultracompact silicon photonic chip. Nature Communications, 2016, 7, 13004.	12.8	91
8	Tunable Optoelectronic Oscillator Incorporating a High-Q Spectrum-Sliced Photonic Microwave Transversal Filter. IEEE Photonics Technology Letters, 2012, 24, 1251-1253.	2.5	89
9	Integrated optoelectronic oscillator. Optics Express, 2018, 26, 12257.	3.4	87
10	Recent advances in optoelectronic oscillators. Advanced Photonics, 2020, 2, 1.	11.8	83
11	Observation of parity-time symmetry in microwave photonics. Light: Science and Applications, 2018, 7, 38.	16.6	82
12	All-fiber temporal photonic fractional Hilbert transformer based on a directly designed fiber Bragg grating. Optics Letters, 2010, 35, 223.	3.3	73
13	Photonic Generation of Continuously Tunable Chirped Microwave Waveforms Based on a Temporal Interferometer Incorporating an Optically Pumped Linearly Chirped Fiber Bragg Grating. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3531-3537.	4.6	71
14	Continuously Tunable Photonic Fractional Temporal Differentiator Based on a Tilted Fiber Bragg Grating. IEEE Photonics Technology Letters, 2011, 23, 251-253.	2.5	67
15	Toward Monolithic Integration of OEOs: From Systems to Chips. Journal of Lightwave Technology, 2018, 36, 4565-4582.	4.6	64
16	Experimental Demonstration of a Wideband Photonic Temporal Hilbert Transformer Based on a Single Fiber Bragg Grating. IEEE Photonics Technology Letters, 2010, 22, 1559-1561.	2.5	61
17	Instantaneous Microwave Frequency Measurement Using a Special Fiber Bragg Grating. IEEE Microwave and Wireless Components Letters, 2011, 21, 52-54.	3.2	59
18	Recent progress of integrated circuits and optoelectronic chips. Science China Information Sciences, 2021, 64, 1.	4.3	56

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19	Spectral Sculpting of Chaotic-UWB Signals Using a Dual-Loop Optoelectronic Oscillator. IEEE Photonics Technology Letters, 2013, 25, 2397-2400.	2.5	54
20	Dual-chirp Fourier domain mode-locked optoelectronic oscillator. Optics Letters, 2019, 44, 1912.	3.3	46
21	Transmission of dual-chirp microwave waveform over fiber with compensation of dispersion-induced power fading. Optics Letters, 2018, 43, 2466.	3.3	45
22	Microwave photonics frequency-to-time mapping based on a Fourier domain mode locked optoelectronic oscillator. Optics Express, 2018, 26, 33582.	3.4	44
23	Hybrid Fourier-domain mode-locked laser for ultra-wideband linearly chirped microwave waveform generation. Nature Communications, 2020, 11, 3814.	12.8	42
24	Real-Time Interrogation of a Linearly Chirped Fiber Bragg Grating Sensor Based on Chirped Pulse Compression With Improved Resolution and Signal-to-Noise Ratio. Journal of Lightwave Technology, 2011, 29, 1239-1247.	4.6	40
25	Single-shot photonic time-intensity integration based on a time-spectrum convolution system. Optics Letters, 2012, 37, 1355.	3.3	39
26	Photonic generation of widely tunable and background-free binary phase-coded radio-frequency pulses. Optics Letters, 2013, 38, 3441.	3.3	37
27	Tunable Fourier Domain Mode-Locked Optoelectronic Oscillator Using Stimulated Brillouin Scattering. IEEE Photonics Technology Letters, 2018, 30, 1842-1845.	2.5	34
28	Photonic generation of background-free binary phase-coded microwave pulses. Optics Letters, 2019, 44, 94.	3.3	34
29	Tutorial on optoelectronic oscillators. APL Photonics, 2021, 6, .	5.7	32
30	Time-stretch probing of ultra-fast soliton dynamics related to Q-switched instabilities in mode-locked fiber laser. Optics Express, 2018, 26, 20888.	3.4	30
31	Terahertz-bandwidth photonic fractional Hilbert transformer based on a phase-shifted waveguide Bragg grating on silicon. Optics Letters, 2014, 39, 6241.	3.3	28
32	RF signal detection by a tunable optoelectronic oscillator based on a PS-FBG. Optics Letters, 2018, 43, 1199.	3.3	28
33	Tilted Fiber Bragg Grating for Chirped Microwave Waveform Generation. IEEE Photonics Technology Letters, 2011, 23, 314-316.	2.5	27
34	Photonic Generation of Binary Phase-Coded Microwave Signals With Large Frequency Tunability Using a Dual-Parallel Machâ€“Zehnder Modulator. IEEE Photonics Journal, 2013, 5, 5501507-5501507.	2.0	27
35	Widely tunable single-bandpass microwave photonic filter based on polarization processing of a nonsliced broadband optical source. Optics Letters, 2013, 38, 4857.	3.3	27
36	Harmonically Fourier Domain Mode-Locked Optoelectronic Oscillator. IEEE Photonics Technology Letters, 2019, 31, 427-430.	2.5	27

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37	Multiple-frequency measurement based on a Fourier domain mode-locked optoelectronic oscillator operating around oscillation threshold. Optics Letters, 2019, 44, 3062.	3.3	27
38	Single Phase Modulator for Binary Phase-Coded Microwave Signals Generation. IEEE Photonics Technology Letters, 2013, 25, 1867-1870.	2.5	26
39	Broadband random optoelectronic oscillator. Nature Communications, 2020, 11, 5724.	12.8	26
40	Optical vector network analyzer based on double-sideband modulation. Optics Letters, 2017, 42, 4426.	3.3	26
41	Reconfigurable microwave photonic mixer based on dual-polarization dual-parallel Machâ€“Zehnder modulator. Optics Communications, 2018, 428, 131-135.	2.1	25
42	Ultrahigh-Q and tunable single-passband microwave photonic filter based on stimulated Brillouin scattering and a fiber ring resonator. Optics Letters, 2018, 43, 4659.	3.3	24
43	Chromatic-dispersion-induced power-fading suppression technique for bandwidth-quadrupling dual-chirp microwave signals over fiber transmission. Optics Letters, 2019, 44, 923.	3.3	24
44	Photonic Radio Frequency Self-Interference Cancellation and Harmonic Down-Conversion for In-Band Full-Duplex Radio-Over-Fiber System. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	23
45	Photonic MMW-UWB Signal Generation via DPMZM-Based Frequency Up-Conversion. IEEE Photonics Technology Letters, 2013, 25, 1875-1878.	2.5	21
46	Superluminal space-to-time mapping in grating-assisted co-directional couplers. Optics Express, 2013, 21, 6249.	3.4	19
47	Reconfigurable Optical Signal Processing Based on a Distributed Feedback Semiconductor Optical Amplifier. Scientific Reports, 2016, 6, 19985.	3.3	19
48	Simultaneous frequency upconversion and phase coding of a radio-frequency signal for photonic radars. Optics Letters, 2018, 43, 583.	3.3	19
49	Photonic generation of multiband and multi-format microwave signals based on a single modulator. Optics Letters, 2020, 45, 6190.	3.3	19
50	Experimental Demonstration of Symmetrical Waveform Generation Based on Amplitude-Only Modulation in a Fiber-Based Temporal Pulse Shaping System. IEEE Photonics Technology Letters, 2011, 23, 715-717.	2.5	18
51	Optoelectronic parametric oscillator. Light: Science and Applications, 2020, 9, 102.	16.6	18
52	Polarization Manipulated Fourier Domain Mode-Locked Optoelectronic Oscillator. Journal of Lightwave Technology, 2020, 38, 5270-5277.	4.6	18
53	Photonic System for Simultaneous and Unambiguous Measurement of Angle-of-Arrival and Doppler-Frequency-Shift. Journal of Lightwave Technology, 2022, 40, 2321-2328.	4.6	18
54	Detection of wideband low-power RF signals using a stimulated Brillouin scattering-based optoelectronic oscillator. Optics Communications, 2019, 439, 133-136.	2.1	17

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55	Photonic generation of quadruple bandwidth dual-band dual-chirp microwave waveforms with immunity to power fading. Optics Letters, 2021, 46, 868.	3.3	17
56	Large-capacity and low-loss integrated optical buffer. Optics Express, 2019, 27, 11585.	3.4	17
57	Multichannel optical filters with an ultranarrow bandwidth based on sampled Brillouin dynamic gratings. Optics Express, 2014, 22, 4290.	3.4	16
58	Reconfigurable single-shot incoherent optical signal processing system for chirped microwave signal compression. Science Bulletin, 2017, 62, 242-248.	9.0	16
59	Experimental demonstration of a multi-target detection technique using an X-band optically steered phased array radar. Optics Express, 2016, 24, 14438.	3.4	15
60	Megahertz-resolution programmable microwave shaper. Optics Letters, 2018, 43, 1878.	3.3	15
61	Microwave Downconversion by a Tunable Optoelectronic Oscillator Based on PS-FBG and Polarization-Multiplexed Dual loop. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2095-2102.	4.6	15
62	Fourier domain mode locked optoelectronic oscillator based on the deamplification of stimulated Brillouin scattering. OSA Continuum, 2018, 1, 408.	1.8	15
63	A simple photonic method to generate square and triangular microwave waveforms. Optics Communications, 2018, 426, 654-657.	2.1	14
64	Optical Pulse Generation Based on an Optoelectronic Oscillator With Cascaded Nonlinear Semiconductor Optical Amplifiers. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	13
65	Large Group Delay in Silicon-on-Insulator Chirped Spiral Bragg Grating Waveguide. IEEE Photonics Journal, 2021, 13, 1-5.	2.0	13
66	Photonic Generation and Transmission of Dual-Band Dual-Chirp Microwave Waveforms at C-Band and X-Band With Elimination of Power Fading. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	13
67	Dual-chirp microwave waveform transmitter with elimination of power fading for one-to-multibase station fiber transmission. Optics Letters, 2020, 45, 1285.	3.3	13
68	Photonic Generation of Ultrawideband Signals With Large Carrier Frequency Tunability Based on an Optical Carrier Phase-Shifting Method. IEEE Photonics Journal, 2013, 5, 5502007-5502007.	2.0	12
69	Microwave photonic bandstop filter with wide tunability and adjustable bandwidth. Optics Express, 2015, 23, 33579.	3.4	12
70	Inherent resolution limit on nonlocal wavelength-to-time mapping with entangled photon pairs. Optics Express, 2020, 28, 7488.	3.4	12
71	Hybrid frequency-time spectrograph for the spectral measurement of the two-photon state. Optics Letters, 2020, 45, 2993.	3.3	12
72	Accuracy-Enhanced Wideband Optical Vector Network Analyzer Based on Double-Sideband Modulation. Journal of Lightwave Technology, 2019, 37, 2920-2926.	4.6	10

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73	Microwave photonic injection locking frequency divider based on a tunable optoelectronic oscillator. Optics Express, 2021, 29, 684.	3.4	10
74	A Filterless Photonic Approach for DFS and AOA Measurement Using a Push-Pull DPol-MZM. IEEE Photonics Technology Letters, 2022, 34, 19-22.	2.5	10
75	Precise Identification of Wideband Multiple Microwave Frequency Based on Self-Heterodyne Low-Coherence Interferometry. Journal of Lightwave Technology, 2021, 39, 3169-3176.	4.6	9
76	Photonic Generation of Phase-Coded Microwave Signals Based on Fourier Domain Mode Locking. IEEE Photonics Technology Letters, 2021, 33, 433-436.	2.5	9
77	Photonic Scheme for the Generation of Background-Free Phase-Coded Microwave Pulses and Dual-Chirp Microwave Waveforms. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	8
78	Ultra-low V _{pp} and high-modulation-depth InP-based electroâ€“optic microring modulator. Journal of Semiconductors, 2021, 42, 082301.	3.7	8
79	Photonics-enabled spiking timing-dependent convolutional neural network for real-time image classification. Optics Express, 2022, 30, 16217.	3.4	8
80	Tunable fractional-order photonic differentiator using a distributed feedback semiconductor optical amplifier. Optical Engineering, 2015, 55, 031105.	1.0	7
81	High-speed serial deep learning through temporal optical neurons. Optics Express, 2021, 29, 19392.	3.4	7
82	Ultrahigh spectral resolution single passband microwave photonic filter. Optics Express, 2021, 29, 28725.	3.4	7
83	Photonic Generation of Dual-Chirp Microwave Waveforms Based on a Tunable Optoelectronic Oscillator. IEEE Photonics Technology Letters, 2020, 32, 599-602.	2.5	7
84	Microwave photonic frequency down-conversion and channel switching for satellite communication. Optics Letters, 2020, 45, 5000.	3.3	7
85	Real-time Fourier transformation of lightwave spectra and application in optical reflectometry. Optics Express, 2015, 23, 32516.	3.4	6
86	Instantaneous microwave frequency measurement based on non-sliced broadband optical source. Optics Communications, 2020, 458, 124758.	2.1	6
87	RF Self-Interference Cancellation and Frequency Downconversion With Immunity to Power Fading Based on Optoelectronic Oscillation. Journal of Lightwave Technology, 2022, 40, 3614-3621.	4.6	6
88	Photonic Generation and Antidispersion Transmission of Background-Free Multiband Arbitrarily Phase-Coded Microwave Signals. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2290-2298.	4.6	6
89	Femtometer-resolution wavelength interrogation using an optoelectronic oscillator. , 2012, , .		5
90	Switchable Microwave Photonic Filter Between Dual-Notch and Dual-Passband Responses. IEEE Photonics Technology Letters, 2018, 30, 1894-1897.	2.5	5

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91	Fast-Switching Microwave Photonic Filter Using an Integrated Spectrum Shaper. IEEE Photonics Technology Letters, 2019, 31, 269-272.	2.5	5
92	A switchable self-interference cancellation system for dual-band IBFD system using a monolithic integrated DML array. Optics Communications, 2019, 447, 55-60.	2.1	5
93	Monolithic integrated 4<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e126" altimg="si5.gif"><mml:mspace width="1em" class="nbsp" /><mml:mo>Â—</mml:mo><mml:mspace width="1em" class="nbsp" /></mml:math>25 Gb/s transmitter optical subassembly at 1.55 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e135" altimg="si6.gif"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math>m. Optics Communications, 2019, 441, 160-164.	2.1	5
94	Accuracy enhanced microwave frequency measurement based on the machine learning technique. Optics Express, 2021, 29, 19515.	3.4	5
95	Tb/s Fast Random Bit Generation Based on a Broadband Random Optoelectronic Oscillator. IEEE Photonics Technology Letters, 2021, 33, 1223-1226.	2.5	5
96	Photonic-based microwave hybrid combiner with arbitrarily tunable phase shift and power combining ratio. Optics Letters, 2019, 44, 2012.	3.3	5
97	Microwave-photonics iterative nonlinear gain model for optoelectronic oscillators. Optics Express, 2022, 30, 12131.	3.4	5
98	Unambiguous measurement of AOA using a DDMZM. Optics Communications, 2022, 514, 128132.	2.1	5
99	Photonic Generation of Ultra-Wideband Signal by Truncating a Continuous Wave into a Pulse. IEEE Photonics Technology Letters, 2018, 30, 1862-1865.	2.5	4
100	Temporal Cloak Without Synchronization. IEEE Photonics Technology Letters, 2019, 31, 373-376.	2.5	4
101	Ultra-Fast Wavemeter for CW Laser Based on Wavelength-to-Time Mapping. Journal of Lightwave Technology, 2019, 37, 2661-2667.	4.6	4
102	1Â<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml6" display="inline" overflow="scroll" altimg="si6.gif"><mml:mo>Â—</mml:mo></mml:math>ÂN hybrid radio frequency photonic splitter based on a dual-polarization dual-parallel Mach Zehnder modulator. Optics Communications, 2019, 431, 10-13.	2.1	4
103	An Up/Downstream Shared Optical Beam Forming Network for Remote Phased Array Antenna. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	4
104	Bandwidth superposition of linearly chirped microwave waveforms based on a Fourier domain mode-locked optoelectronic oscillator. Optics Express, 2021, 29, 36977.	3.4	4
105	Optically controlled phase array antenna [Invited]. Chinese Optics Letters, 2019, 17, 052301.	2.9	4
106	Transmission of dual-chirp microwave signal over fiber with suppression chromatic-dispersion-induced power-fading based on stimulated Brillouin scattering. Optics Communications, 2022, 508, 127787.	2.1	4
107	Dissipative microwave photonic solitons in spontaneous frequency-hopping optoelectronic oscillators. Photonics Research, 2022, 10, 1280.	7.0	4
108	Photonic Generation of Rectangular and Triangular Microwave Waveforms With Tunable Duty Cycle. IEEE Photonics Technology Letters, 2022, 34, 371-374.	2.5	4

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109	An integrated optoelectronic oscillator. , 2017, , .		3
110	Switchable microwave photonic filter based on a dual-parallel Machâ€“Zehnder modulator. Applied Optics, 2018, 57, 4537.	1.8	3
111	Optical phase matching of high-order azimuthal WGM in a water droplet resonator. Optics Express, 2019, 27, 33436.	3.4	3
112	Wideband and Continuously Tunable Microwave Photonic Phase Shifter Based on an Active InP/InGaAsP Microring Resonator. , 2019, , .		3
113	A background-free phase-coded microwave pulse generator by optoelectronic oscillation. Optics Communications, 2019, 453, 124318.	2.1	3
114	Wideband optical vector network analyzer based on polarization modulation. Optics Communications, 2019, 437, 67-70.	2.1	3
115	Tunable Single-Notch Microwave Photonic Filter Based on Nonsliced ASE Source. IEEE Photonics Technology Letters, 2019, 31, 731-734.	2.5	3
116	Photonic Image Rejection Mixer Based on Polarization Manipulation of a Broadband Optical Source. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	3
117	FCC-compliant millimeter-wave ultra-wideband pulse generator based on optoelectronic oscillation. Optics Letters, 2019, 44, 3530.	3.3	3
118	Photonic Generation of Multi-Band Phase-Coded Microwave Pulses by Polarization Manipulation of Optical Signals. Journal of Lightwave Technology, 2022, 40, 672-680.	4.6	3
119	Photonic Generation of Multi-Format Radar Waveforms Based on an Integrated Silicon IQ Modulator. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-7.	2.9	3
120	Narrow linewidth semiconductor laser with a multi-period-delayed feedback photonic circuit. Optics Express, 2022, 30, 15796.	3.4	3
121	Dual-Functional Transmitter for Simultaneous RF/LFM Signal Using a Monolithic Integrated DFB Array. IEEE Photonics Technology Letters, 2020, 32, 239-242.	2.5	2
122	A Compact Multifrequency Measurement System Based on an Integrated Frequency-Scanning Generator. Applied Sciences (Switzerland), 2020, 10, 8571.	2.5	2
123	Optically controlled multi-carrier phase-shift-keying microwave signal generation by using cross-polarization modulation in highly nonlinear fiber. Optics Communications, 2020, 469, 125805.	2.1	2
124	Tunable notch microwave photonic filter based on interferometry of a single low-incoherence source. Applied Optics, 2019, 58, 8039.	1.8	2
125	Arbitrary Waveform Generation Based on Dispersion-Free Wavelength-to-Time Mapping Technique. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	1
126	Real-Time Optical Spectrum Fourier Transform With Timeâ€“Bandwidth Product Compression. IEEE Photonics Journal, 2018, 10, 1-14.	2.0	1

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127	Reconfigurable microwave signal processor with a phase shift of Ï€. Optics Express, 2018, 26, 10358.	3.4	1
128	Reconfigurable Photonic generation and transmission of multi-format radar signals. Optics Communications, 2021, 488, 126855.	2.1	1
129	Ultra-fast full-field optical characterization of CW lasers based on optical frequency comb, wavelength-to-time mapping and phase-diversity. Optics Express, 2021, 29, 39874.	3.4	1
130	Photonic-Assisted Radio Frequency Self-InterferenceCancellation and Frequency Down-Conversion Basedon Polarization Multiplexing Modulation. Applied Optics, 2021, 60, 11217-11221.	1.8	1
131	Recent advances in optoelectronic oscillators and quantum microwave photonics. , 2021, , .		1
132	Fully characterization of an active optical filter based on an equivalent-phase-shifted DFB-SOA. Optics Communications, 2016, 376, 1-5.	2.1	0
133	Broadband frequency-doubled linearly chirped microwave waveform generation based on Fourier domain mode-locked optoelectronic oscillator. , 2021, , .		0
134	A versatile single-photon spectrograph for the spectral measurement of the two-photon state. , 2020, , .		0
135	Simultaneous microwave frequency conversion and idler filtering based on polarization manipulating of an amplified spontaneous emission source. Optics and Laser Technology, 2020, 131, 106388.	4.6	0