

Minghua Chen

List of Publications by Year in descending order

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121
papers

1,059
citations

394286

19
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501076

28
g-index

123
all docs

123
docs citations

123
times ranked

1025
citing authors

#	ARTICLE	IF	CITATIONS
1	A 2-GHz discrete-spectrum waveband-division microscopic imaging system. Optics Communications, 2015, 338, 22-26.	1.0	69
2	Methods for Ultra-Wideband Pulse Generation Based on Optical Cross-Polarization Modulation. Journal of Lightwave Technology, 2008, 26, 2492-2499.	2.7	49
3	Compressive sensing based high-speed time-stretch optical microscopy for two-dimensional image acquisition. Optics Express, 2015, 23, 29639.	1.7	47
4	60-nm-Wide Tunable Single-Longitudinal-Mode Ytterbium Fiber Laser With Passive Multiple-Ring Cavity. IEEE Photonics Technology Letters, 2011, 23, 1658-1660.	1.3	45
5	All-Optical Sampling Orthogonal Frequency-Division Multiplexing Scheme for High-Speed Transmission System. Journal of Lightwave Technology, 2009, 27, 4848-4854.	2.7	44
6	Gigabit/s Photonic Generation, Modulation, and Transmission for a Reconfigurable Impulse Radio UWB Over Fiber System. IEEE Photonics Journal, 2012, 4, 805-816.	1.0	34
7	Hybrid integrated low-noise linear chirp frequency-modulated continuous-wave laser source based on self-injection to an external cavity. Photonics Research, 2021, 9, 1948.	3.4	32
8	High-speed cell recognition algorithm for ultrafast flow cytometer imaging system. Journal of Biomedical Optics, 2018, 23, 1.	1.4	32
9	Bandwidth Improvement Using Adaptive Loading Scheme in Optical Direct-Detection OFDM. IEEE Journal of Quantum Electronics, 2016, 52, 1-6.	1.0	30
10	LOEN: Lensless opto-electronic neural network empowered machine vision. Light: Science and Applications, 2022, 11, 121.	7.7	30
11	Fast time-lens-based line-scan single-pixel camera with multi-wavelength source. Biomedical Optics Express, 2015, 6, 3610.	1.5	28
12	Silicon nitride chirped spiral Bragg grating with large group delay. APL Photonics, 2020, 5, .	3.0	27
13	Silicon-on-insulator narrow-passband filter based on cascaded MZIs incorporating enhanced FSR for downconverting analog photonic links. Optics Express, 2013, 21, 6749.	1.7	26
14	A Novel Composite Method for Ultra-Wideband Doublet Pulses Generation. IEEE Photonics Technology Letters, 2007, 19, 2021-2023.	1.3	24
15	Tunable Self-Injected Fabry-Perot Laser Diode Coupled to an External High-Q $\text{Si}_3\text{N}_4/\text{SiO}_2$ Microring Resonator. Journal of Lightwave Technology, 2018, 36, 3269-3274.	2.7	24
16	Millimeter-Wave Signal Generation Using Two Cascaded Optical Modulators and FWM Effect in Semiconductor Optical Amplifier. IEEE Photonics Technology Letters, 2007, 19, 1191-1193.	1.3	23
17	Photonics-Assisted Serial Channelized Radio-Frequency Measurement System With Nyquist-Bandwidth Detection. IEEE Photonics Journal, 2014, 6, 1-7.	1.0	22
18	All-Optical Full-Band RF Receiver Based on an Integrated Ultra-High-Q Bandpass Filter. Journal of Lightwave Technology, 2016, 34, 701-706.	2.7	22

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19	High-Spectral-Purity Millimeter-Wave Signal Optical Generation. <i>Journal of Lightwave Technology</i> , 2009, 27, 2044-2051.	2.7	20
20	Recirculating Frequency Shifting Based Wideband Optical Frequency Comb Generation by Phase Coherence Control. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	1.0	19
21	Photonic Downconversion and Linearization of Microwave Signals from the π -to- 2π Band. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2015-2018.	1.3	19
22	Robust hybrid laser linewidth reduction using Si ₃ N ₄ -based subwavelength hole defect assisted microring reflector. <i>Photonics Research</i> , 2021, 9, 558.	3.4	19
23	Photonic Generation and Transmission of 2-Gbit/s Power-Efficient IR-UWB Signals Employing an Electro-Optic Phase Modulator. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 144-146.	1.3	18
24	Full-Duplex 60-GHz RoF System With Optical Local Oscillating Carrier Distribution Scheme Based on FWM Effect in SOA. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1716-1718.	1.3	16
25	Principle-Driven Fiber Transmission Model Based on PINN Neural Network. <i>Journal of Lightwave Technology</i> , 2022, 40, 404-414.	2.7	16
26	1-Tb/s WDM-OFDM-PON System With Subband Access Scheme and Flexible Subcarrier-Level Bandwidth Allocation. <i>IEEE Photonics Journal</i> , 2013, 5, 7900208-7900208.	1.0	14
27	Video object detection from one single image through opto-electronic neural network. <i>APL Photonics</i> , 2021, 6, 046104.	3.0	14
28	PolSK Label Over VSB-CSRZ Payload Scheme in AOLS Network. <i>Journal of Lightwave Technology</i> , 2007, 25, 1348-1355.	2.7	12
29	Time-Interleaved 20-GHz Modulated Wideband Converter Based on Random Optical Sampling. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1022-1025.	1.3	12
30	High-Speed Compressive Microscopy of Flowing Cells Using Sinusoidal Illumination Patterns. <i>IEEE Photonics Journal</i> , 2017, 9, 1-11.	1.0	12
31	Electro-Optical Neural Networks Based on Time-Stretch Method. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-10.	1.9	12
32	Bit error rate analysis of OTDM system based on moment generation function. <i>Journal of Lightwave Technology</i> , 2000, 18, 1513-1518.	2.7	11
33	DWDM-Based Frequency-Interleaved Optical Distributing System Merging Wired and Wireless Services. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1048-1050.	1.3	11
34	Temperature-insensitive Mach-Zehnder interferometer based on a silicon nitride waveguide platform. <i>Optics Letters</i> , 2020, 45, 2780.	1.7	11
35	Photonic Crystal Fiber Based Wavelength-Tunable Optical Parametric Amplifier and Picosecond Pulse Generation. <i>IEEE Photonics Journal</i> , 2014, 6, 1-8.	1.0	9
36	On-chip photonic microsystem for optical signal processing based on silicon and silicon nitride platforms. <i>Advanced Optical Technologies</i> , 2018, 7, 81-101.	0.9	9

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37	A Method for Improving Reflection Tolerance of Laser Source in Hybrid Photonic Packaged Micro-System. IEEE Photonics Technology Letters, 2021, 33, 465-468.	1.3	9
38	Performances of Switching Window of Ultrafast Nonlinear Interferometer (UNI) Demultiplexer. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 1503-1516.	0.6	7
39	UWB monocycle and doublet pulses generation in optical domain. , 2007, , .		7
40	Large-Tap Microwave Photonics Filter Based on Recirculating Frequency Shifting Loop. IEEE Photonics Technology Letters, 2014, 26, 1219-1222.	1.3	7
41	Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. IEEE Photonics Journal, 2020, 12, 1-9.	1.0	7
42	Hybrid microwave photonic receiver based on integrated tunable bandpass filters. Optics Express, 2021, 29, 11084.	1.7	7
43	Modulation bandwidth enhanced self-injection locking laser with an external high-Q microring reflector. Optics Letters, 2021, 46, 3251.	1.7	7
44	Vestigial-sideband payload for high-speed all-optical label-switching network. Journal of Lightwave Technology, 2005, 23, 3313-3320.	2.7	6
45	Residual Chromatic-Dispersion Monitoring and Dynamic Compensation in 40-Gb/s Systems. IEEE Photonics Technology Letters, 2007, 19, 1142-1144.	1.3	6
46	Picosecond Photonic Crystal Fiber-Based Doubly Resonant Optical Parametric Oscillator. IEEE Photonics Technology Letters, 2014, 26, 682-685.	1.3	6
47	Si ₃N ₄-Based Integrated Optical Analog Signal Processor and Its Application in RF Photonic Frontend. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	6
48	Single-shot 3D tracking based on polarization multiplexed Fourier-phase camera. Photonics Research, 2021, 9, 1924.	3.4	6
49	Gain-Switched Optical Frequency Comb Source Using a Hybrid Integrated Self-Injection Locking DFB Laser. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	6
50	Fully integrated hybrid microwave photonic receiver. Photonics Research, 2022, 10, 1472.	3.4	6
51	High-efficiency all-fibre optical parametric oscillator based on photonic crystal fibres pumped by ytterbium-doped fibre laser. Electronics Letters, 2014, 50, 624-626.	0.5	5
52	Adaptive Three-Dimensional Optimization for Optical Direct-Detection OFDM. Journal of Lightwave Technology, 2017, 35, 1506-1512.	2.7	5
53	Fast intelligent cell phenotyping for high-throughput optofluidic time-stretch microscopy based on the XGBoost algorithm. Journal of Biomedical Optics, 2020, 25, 1.	1.4	5
54	Output-Aware Buffering with Variable Delay Buffers in Optical Packet Switching Networks. , 2007, , .		4

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55	Fiber optical parametric oscillator based on highly nonlinear dispersion-shifted fiber. <i>Frontiers of Optoelectronics</i> , 2013, 6, 25-29.	1.9	4
56	Narrow Linewidth Terahertz Generation Engineed by All-Fiber Parametric Optical Source. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	1.0	4
57	Ultra High-Repetition-Rate Pulse Sources Based on Cascaded Four Wave Mixing in EYDF. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 409-411.	1.3	4
58	Instantaneous Dynamics of a Fiber Optical Parametric Oscillator Within Its Initiating Process. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1088-1091.	1.3	4
59	Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. <i>IEEE Photonics Journal</i> , 2020, 12, 1-12.	1.0	4
60	Optoelectronic convolutional neural networks based on time-stretch method. <i>Science China Information Sciences</i> , 2021, 64, 1.	2.7	4
61	High-purity millimeter-wave signal photonic generation. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 1894-1897.	0.9	3
62	Optical Code Label Stripping based on SOA-MZI in Optical Packet Switching Networks. <i>Journal of Lightwave Technology</i> , 2009, 27, 3212-3219.	2.7	3
63	Photonic generation of various modulation formats in high speed UWB over fiber system. , 2010, , .		3
64	Linearized photonic if downconversion of analog microwave signals based on balanced detection and digital signal post-processing. , 2012, , .		3
65	Improvement of phase coherence of optical pulse train based on fiber nonlinear effect. <i>Science China Technological Sciences</i> , 2013, 56, 617-620.	2.0	3
66	Radar pulse sensing based on photonic-assisted compressive sampling. , 2014, , .		3
67	Channel Estimation on Individual Subcarrier Using Image Processing in Optical OFDM System. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1815-1818.	1.3	3
68	Integrated Wavelength Beam Emitter on Silicon for Two-Dimensional Optical Scanning. <i>IEEE Photonics Journal</i> , 2019, 11, 1-10.	1.0	3
69	Quadrature Multiplexed Structured Illumination Imaging. <i>IEEE Photonics Journal</i> , 2020, 12, 1-8.	1.0	3
70	Universal Fiber Models based on PINN Neural Network. , 2020, , .		3
71	Hybrid integrated low noise optical phase-locked loop based on self-injection locked semiconductor laser. <i>Journal of Lightwave Technology</i> , 2021, , 1-1.	2.7	3
72	Millimeter-Wave Signal Generation Using Four-Wave Mixing Effect in SOA. , 2007, , .		2

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73	Multibit Information Optical Code Label Processing in Optical Packet Switching Networks. IEEE Photonics Technology Letters, 2010, 22, 769-771.	1.3	2
74	A power-efficient photonic OOK and BPSK modulated Gigabit/s IR-UWB over fiber system. , 2011, , .		2
75	Temporally controlled wideband optical frequency comb generation based on recirculating frequency shifting. , 2014, , .		2
76	PAPR reduction of the power efficient asymmetrically clipped OFDM. , 2015, , .		2
77	CMOS-Compatible High Resolution Spatial Heterodyne Spectrometer Based on Si3N4/SiO2 Waveguide. IEEE Photonics Technology Letters, 2016, 28, 2712-2715.	1.3	2
78	Binarized Coherent Optical Receiver Based on Opto-Electronic Neural Network. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9.	1.9	2
79	A Design Method of Optical Phased Array With Insufficient Phase Tuning Range. IEEE Photonics Journal, 2020, 12, 1-9.	1.0	2
80	Transmission of 12-ps RZ code over 203-km dispersive fibre using mid-span spectral inversion. , 0, , .		1
81	Reduction of waveform distortion in a semiconductor optical amplifier using internal birefringence and slope filtering. , 0, , .		1
82	High spectral efficiency scheme for optical label switching network. , 0, , .		1
83	Chromatic dispersion monitoring and dynamic dispersion compensation in 40Gbps systems. , 2006, , .		1
84	Carrier-Reuse Using PolSK Data Rewriting Method in PONs. , 2008, , .		1
85	Multiband UWB Pulse Generation Using Hybrid Photonic Microwave Filters. , 2008, , .		1
86	A novel photonic method for millimetre-wave band vector signal modulation in 60GHz RoF systems. , 2010, , .		1
87	64 channels 1Gbit/s ultra-dense WDM PON system based on coherent heterodyne receiver. , 2011, , .		1
88	Photonic-assisted seamless channelization based on integrated three-stage cascaded DIs. , 2013, , .		1
89	Interference suppression and tunability enhancement for OFC-based simultaneous microwave down-conversion and filtering. , 2014, , .		1
90	Ring resonator memristor with electric input and optical readout functionality. , 2015, , .		1

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91	High-throughput real-time imaging flow cytometry based on Fourier sampling. , 2016, , .		1
92	Properties of Optical Phase-Locked Loop Based on Four Wave Mixing in Semiconductor Laser Amplifiers. Journal of Infrared, Millimeter and Terahertz Waves, 1998, 19, 1721-1734.	0.6	0
93	Properties of an optical time-division demultiplexing module using serialized nonlinear optical loop mirrors. Journal of Modern Optics, 1999, 46, 567-574.	0.6	0
94	Generation of optical period-doubling sequence in fiber laser with a semiconductor laser amplifier in loop mirror. , 2000, , .		0
95	Influence of carrier transport on performance of SLALOM with a polarization-independent MQW SLA. IEEE Photonics Technology Letters, 2000, 12, 37-39.	1.3	0
96	Performance evaluation of standard FEC in 40Gbit/s systems with high PMD and prechirped CS-RZ modulation format. , 0, , .		0
97	Tunable dispersion compensator for 40-Gb/s optical transmission systems fabricated by reconstruction and equivalent chirp method. , 2005, , .		0
98	A TCP Control Scheme with Fixed RTT in OPS Networks. , 2006, , .		0
99	High spectral efficiency orthogonal modulation in all optical label switching network. , 2006, , .		0
100	A Scheme to Realize Class B Slow Light Buffer in Semiconductor Optical Amplifiers. , 2007, , .		0
101	A scheme to realize class B slow light buffer in semiconductor optical amplifiers. , 2007, , .		0
102	Cascaded optical code label for all-optical routing in optical packet switching networks. , 2009, , .		0
103	All optical sampling orthogonal frequency division multiplexing scheme with cyclic postfix inserted. , 2009, , .		0
104	Stacked optical code label for multicasting in optical packet switching networks (invited). , 2009, , .		0
105	Improving O-OFDM system performance with constellation fine adjustment. , 2010, , .		0
106	Instantaneous frequency measurement by optical filters based on vernier effect. , 2011, , .		0
107	A Novel Architecture Scheme for OFDM Passive Optical Network with Source-free ONUs. Journal of Optical Communications, 2012, 33, .	4.0	0
108	A photonic-assisted multi-channel compressive sampling system. , 2012, , .		0

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109	Wavelength division ultrafast microscopic imaging system. , 2013, , .		0
110	Photonics generation of linearly chirped electrical pulse with ultra-wide frequency band up to THz. , 2013, , .		0
111	World's fastest real-time line scan microscopic imaging system with 1GHz frame rate. , 2013, , .		0
112	Broadband radio signal serial channelization by optical scanning method. , 2015, , .		0
113	Optical generation of Terahertz based on all fiber highly coherent optical parametric light source. , 2015, , .		0
114	Experimental demonstration of channel estimation using image processing in optical direct-detection OFDM. , 2016, , .		0
115	A photonic-assisted compressive sampling system using a directly-modulated laser. , 2017, , .		0
116	Optical phased array with elephant couplers. , 2017, , .		0
117	A single frequency fiber laser with an on-chip high-Q silicon microring cavity. , 2017, , .		0
118	Transient Dynamics of the Starting Process in a Fiber Optical Parametric Oscillator. , 2019, , .		0
119	A method for suppressing frequency drift of integrated microwave photonic filters based on difference scheme. , 2019, , .		0
120	Comparison of the Self-Phase Modulation Effects Tolerance Performance for NRZ, RZ and CS-RZ Formats. , 2002, , .		0
121	Hybrid Integrated Low Residual Noise Optical Phase Locked Loop. , 2021, , .		0