

Minming Zhang

List of Publications by Year in descending order

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102
papers

1,531
citations

394421

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345221

36
g-index

102
all docs

102
docs citations

102
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical meta-waveguides for integrated photonics and beyond. Light: Science and Applications, 2021, 10, 235.	16.6	196
2	Ultra-compact mode (de) multiplexer based on subwavelength asymmetric Y-junction. Optics Express, 2018, 26, 8162.	3.4	162
3	Ultracompact dual-mode waveguide crossing based on subwavelength multimode-interference couplers. Photonics Research, 2018, 6, 660.	7.0	93
4	Inverse design of digital nanophotonic devices using the adjoint method. Photonics Research, 2020, 8, 528.	7.0	91
5	Inverse design and demonstration of an ultracompact broadband dual-mode 3 dB power splitter. Optics Express, 2018, 26, 24135.	3.4	82
6	Inverse-designed single-step-etched colorless 3â€‰%â€‰dB couplers based on RIE-lag-insensitive PhC-like subwavelength structures. Optics Letters, 2016, 41, 5051.	3.3	79
7	Inverse-designed ultra-compact star-crossings based on PhC-like subwavelength structures for optical intercross connect. Optics Express, 2017, 25, 18355.	3.4	47
8	Inverse design of a single-step-etched ultracompact silicon polarization rotator. Optics Express, 2020, 28, 28343.	3.4	36
9	An Electrooptic Chaotic System Based on a Hybrid Feedback Loop. Journal of Lightwave Technology, 2018, 36, 4259-4266.	4.6	33
10	Enhancing the Physical Layer Security of OFDM-PONs With Hardware Fingerprint Authentication: A Machine Learning Approach. Journal of Lightwave Technology, 2020, 38, 3238-3245.	4.6	33
11	Semiconductor-laser-based hybrid chaos source and its application in secure key distribution. Optics Letters, 2019, 44, 2605.	3.3	33
12	Arbitrary Bias Point Control Technique for Optical IQ Modulator Based on Dither-Correlation Detection. Journal of Lightwave Technology, 2018, 36, 3824-3836.	4.6	32
13	Time-Delay Concealment in a Three-Dimensional Electro-Optic Chaos System. IEEE Photonics Technology Letters, 2015, 27, 1030-1033.	2.5	31
14	An Ultracompact Multimode Waveguide Crossing Based on Subwavelength Asymmetric Y-Junction. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	30
15	Wavelength division multiplexing secure communication scheme based on an optically coupled phase chaos system and PM-to-IM conversion mechanism. Nonlinear Dynamics, 2018, 94, 1949-1959.	5.2	30
16	Robust chaotic-shift-keying scheme based on electro-optical hybrid feedback system. Optics Express, 2020, 28, 10847.	3.4	27
17	Integrated Dual-Mode 3-dB Power Splitter Based on Multimode Interference Coupler. IEEE Photonics Technology Letters, 2020, 32, 883-886.	2.5	24
18	Secure Strategy for OFDM-PON Using Digital Chaos Algorithm With Fixed-Point Implementation. Journal of Lightwave Technology, 2018, 36, 4826-4833.	4.6	22

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19	An Image Encryption Scheme Based on Hybrid Electro-Optic Chaotic Sources and Compressive Sensing. IEEE Access, 2019, 7, 156582-156591.	4.2	20
20	High-frequency reverse-time chaos generation using an optical matched filter. Optics Letters, 2016, 41, 1157.	3.3	19
21	An Optically Coupled Electro-Optic Chaos System With Suppressed Time-Delay Signature. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	19
22	Electro-optic chaotic system based on the reverse-time chaos theory and a nonlinear hybrid feedback loop. Optics Express, 2016, 24, 28804.	3.4	17
23	Secure Key Distribution Strategy in OFDM-PON by Utilizing the Redundancy of Training Symbol and Digital Chaos Technique. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	17
24	Novel dual-loop optoelectronic oscillator based on self-polarization-stabilization technique. Optics Express, 2017, 25, 21993.	3.4	16
25	Synchronized Random Bit Sequences Generation Based on Analog-Digital Hybrid Electro-Optic Chaotic Sources. Journal of Lightwave Technology, 2018, 36, 4995-5002.	4.6	16
26	Unveil the time delay signature of optical chaos systems with a convolutional neural network. Optics Express, 2020, 28, 15221.	3.4	16
27	Simultaneous Suppression of Even-Order and Third-Order Distortions in Directly Modulated Analog Photonic Links. IEEE Photonics Journal, 2017, 9, 1-12.	2.0	15
28	All-optical logic operation of polarized light signals in highly nonlinear silicon hybrid plasmonic microring resonators. Applied Optics, 2015, 54, 4471.	1.8	14
29	Ultra-compact silicon multi-mode waveguide bend based on subwavelength asymmetric Y-junction. , 2018, , .		13
30	Subwavelength adiabatic multimode Y-junctions. Optics Letters, 2019, 44, 4729.	3.3	13
31	Optimization of few-mode-fiber based mode converter for mode division multiplexing transmission. Optics Communications, 2013, 306, 185-189.	2.1	12
32	Wideband and continuously-tunable fractional photonic Hilbert transformer based on a single high-birefringence planar Bragg grating. Optics Express, 2018, 26, 20450.	3.4	12
33	Single-Shot Temporal Ghost Imaging Based on Orthogonal Frequency-Division Multiplexing. IEEE Photonics Technology Letters, 2018, 30, 1555-1558.	2.5	11
34	OFDMA-based LAN emulation in long-reach hybrid PON system. Optics Communications, 2011, 284, 740-746.	2.1	10
35	Design of reconfigurable on-chip mode filters based on phase transition in vanadium dioxide. Applied Physics Express, 2016, 9, 112201.	2.4	10
36	Experimental Demonstration of a 16.27 Gb/s 2-D Coherent Optical OFDM System With 3-D Signal Mapper and 2-D IFFT Modulator. Journal of Lightwave Technology, 2016, 34, 1177-1183.	4.6	10

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37	Silicon-based multimode waveguide crossings. JPhys Photonics, 2020, 2, 022002.	4.6	10
38	Polarization and direction-controlled asymmetric multifunctional metadvice for focusing, vortex and Bessel beam generation. Optics Express, 2020, 28, 3732.	3.4	10
39	Bidirectional long-reach PON using Kramers-Kronig-based receiver for Rayleigh Backscattering noise and SSBI interference elimination. Optics Express, 2018, 26, 19020.	3.4	9
40	On-chip cyclic-AWG-based 12×12 silicon wavelength routing switches with minimized port-to-port insertion loss fluctuation. Photonics Research, 2018, 6, 380.	7.0	9
41	Stable and Compact Dual-Loop Optoelectronic Oscillator Using Self-Polarization-Stabilization Technique and Multicore Fiber. Journal of Lightwave Technology, 2018, 36, 5196-5202.	4.6	8
42	Practicable model of coaxial cable channel with splitter and tap via state-transition matrix. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1190-1199.	5.0	7
43	RECONSTRUCTION OF FAULTY CABLE NETWORK USING TIME-DOMAIN REFLECTOMETRY. Progress in Electromagnetics Research, 2013, 136, 457-478.	4.4	7
44	Efficiently tunable and fabrication tolerant double-slot microring resonators incorporating nematic liquid crystal as claddings. Optics Communications, 2015, 350, 235-240.	2.1	7
45	Reproducible optical noise-like signal generation subjected by digital sequences. Optics Express, 2017, 25, 29189.	3.4	7
46	Ultra-compact, Low-loss and Low-crosstalk Wavelength Demultiplexer for CWDM System Based on the Photonic-Crystal-Like Metamaterial Structure. , 2017, , .		7
47	An Ultra-compact Colorless 50:50 Coupler Based on PhC-like Metamaterial Structure. , 2016, , .		7
48	On-chip reconfigurable mode converter based on cross-connected subwavelength Y-junctions. Photonics Research, 2021, 9, 43.	7.0	7
49	Ultra-flat and broad optical frequency combs generation based on novel dispersion-flattened double-slot microring resonator. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	6
50	Computational Temporal Ghost Imaging Using Intensity-Only Detection Over a Single Optical Fiber. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	6
51	Experimental demonstration of a broadband optoelectronic chaos system based on highly nonlinear configuration of IQ modulator. Optics Letters, 2021, 46, 4654.	3.3	5
52	An Ultra-Compact Colorless Dual-Mode 3 dB Power Splitter Based on Axisymmetrical Subwavelength Structure. , 2018, , .		5
53	A novel design of orthogonal frequency division multiplexing-based passive optical networks. Photonic Network Communications, 2012, 23, 265-271.	2.7	4
54	Flexible Tuning Optical Frequency Combs via Parametric Seeding in Microresonators With Normal Dispersion. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	4

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55	Highly efficient tunable optical filter based on liquid crystal micro-ring resonator with large free spectral range. <i>Frontiers of Optoelectronics</i> , 2016, 9, 112-120.	3.7	4
56	Broadband Wavelength Conversion Based on Parallel-Coupled Micro-Ring Resonators. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1559-1562.	2.5	4
57	Demonstration of Dual-Mode Photonic Integrated Circuit Based on Inverse-Designed Photonic Components. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1289-1292.	2.5	4
58	Inverse Design of an Ultra-Compact Mode (De)multiplexer Based on Subwavelength Structure. , 2017, , .		4
59	A Distributed Dynamic Bandwidth Allocation Algorithm in EPON. <i>Modern Applied Science</i> , 2010, 4, .	0.6	3
60	Downhill simplex algorithm based approach to holey fiber design for tunable fiber parametric wavelength converters. <i>Optics Express</i> , 2010, 18, 9831.	3.4	3
61	Measurement of Gain Spectra of Semiconductor Lasers Using Least Squares Fitting Method. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1122-1124.	2.5	3
62	Efficient and broadband wavelength conversion in a slot waveguide with the periodic structure altering the phase-mismatch. <i>Applied Optics</i> , 2015, 54, 7753.	2.1	3
63	PAM4 based symmetrical 112-Gbps long-reach TWDM-PON. <i>Optics Communications</i> , 2018, 409, 117-122.	2.1	3
64	Inverse design and demonstration of ultracompact silicon polarization rotator. , 2019, , .		3
65	Surface-emitting distributed feedback laser based on high-order gratings. <i>Applied Optics</i> , 2019, 58, 5443.	1.8	3
66	4×4 MIMO fiber-wireless transmission based on an integrated four-channel directly modulated optical transceiver. <i>Photonics Research</i> , 2019, 7, 1461.	7.0	3
67	Efficient numerical method for predicting the polarization-dependent Raman gain in fiber Raman amplifiers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 263.	1.5	2
68	High-performance and compact polarization-independent grating coupler. , 2014, , .		2
69	Quasi-phase-matched four-wave mixing generation between C-band and mid-infrared regions using a symmetric hybrid plasmonic waveguide grating. <i>Applied Optics</i> , 2015, 54, 6961.	2.1	2
70	Broadband optical chaos generation by constructing a simple hybrid feedback loop. , 2017, , .		2
71	2×2 PolMux-MIMO RoF System Employing Interference Cancellation Based OFDM/OQAM Technique. , 2016, , .		2
72	A novel medium access control protocol for passive optical network supporting local area networking capabilities. <i>Photonic Network Communications</i> , 2011, 21, 7-12.	2.7	1

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73	Electro-optical Tunable Arrayed Waveguide Grating based on Liquid Crystal Clad waveguide. , 2014, , .		1
74	Broadband and transparent wavelength conversion based on dispersion-flattened double-slot waveguide. Applied Optics, 2015, 54, 7520.	2.1	1
75	Low dispersion broadband integrated double-slot microring resonators optical buffer. Frontiers of Optoelectronics, 2016, 9, 571-577.	3.7	1
76	Secure Optical Communication System Based on ASE Noise with No Need for Key Distribution. , 2018, , .		1
77	Deterministic Single Soliton Formation and Manipulation in Anomalous Dispersion Microresonators via Parametric Seeding. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	1
78	Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	1
79	Polarization insensitive 3-dB directional coupler based on sub-wavelength grating structure. , 2015, , .		1
80	High-efficiency and Broad-bandwidth All Optical Wavelength Converters Based on Parallel-Cascaded Micro-ring Resonators. , 2016, , .		1
81	Performance Analysis of Coherent Optical OFDM with Weiner Phase Noise jitters. , 2012, , .		1
82	Burst-Mode Wavelength Upconversion Using Gain-Clamped SOA for Applying WDM Technique to TDM-PON. , 2012, , .		1
83	Reproducible Broadband Optical Noise Generation Based on Phase Modulation to Intensity Modulation Conversion and a Nonlinear Transformation. , 2017, , .		1
84	Maximizing the security of digital chaos based OFDM-PON with a dynamical nonlinear transformation. , 2019, , .		1
85	Direct modulation bandwidth enhancement of uncooled DFB laser operating over a wide temperature range based on groove-in-trench waveguide structure. Optics Express, 2022, 30, 15757.	3.4	1
86	Experiment demonstration of high speed 1.3 Åµm grating assisted surface-emitting DFB lasers. Optics Express, 2022, 30, 25111.	3.4	1
87	Design and evaluation of scheduling algorithms for TDM/WDM PON based on RSOA. Frontiers of Optoelectronics in China, 2011, 4, 217-222.	0.2	0
88	Phase Noise Jitter Synchronization for Coherent Optical OFDM via Pilot-Data-Aided and Wiener Filter. Journal of Computer and Information Science, 2014, 7, .	0.3	0
89	Improved pilot data aided feed forward based on maximum likelihood for carrier phase jitter recovery in coherent optical orthogonal frequency division multiplexing. Frontiers of Optoelectronics, 2014, 7, 493-500.	3.7	0
90	High-efficiency and broadband wavelength conversion in a slot waveguide with the periodic structure altering the phase-mismatch. , 2015, , .		0

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91	Reconfigurable Optical Boolean Function Generator Based on Electro-Optical Nonlinear Dynamics. Physical Review Applied, 2020, 13, .	3.8	0
92	On-chip reconfigurable inverse-designed nanophotonic devices based on phase-change materials. , 2021, , .		0
93	High speed direct modulation of 1.3 μ m grating assisted surface-emitting DFB laser with wide temperature operation. , 2021, , .		0
94	Fiber Raman laser and amplifier pumped by Nd ³⁺ :YVO ₄ solid state laser. , 2005, , .		0
95	Accurate Channel Model of Coaxial Cable Network and Its Application in Fault Location. , 2012, , .		0
96	A Tunable Photonic Differentiator Based on Temporal Pulse Shaping System. , 2016, , .		0
97	Inverse-designed Ultra-compact Star-crossings Based on PhC-like Subwavelength Structures. , 2017, , .		0
98	Experimental Demonstration of On-chip 56x56 OXC Based on AWG Arrays. , 2017, , .		0
99	Deterministic Single Soliton Formation and Manipulation in Anomalous Dispersion Microresonators via Parametric Seeding. , 2018, , .		0
100	Robust digital-controllable broadband analog optical chaos generation. , 2019, , .		0
101	On-chip reconfigurable mode-order converter based on subwavelength symmetric multimode Y-junctions. , 2020, , .		0
102	On-chip broadband and reconfigurable quasi-circulator based on mode conversion. , 2021, , .		0