

Weilin Xie

List of Publications by Year in descending order

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64
papers

583
citations

567281

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64
all docs

64
docs citations

64
times ranked

478
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and optimization of an unbalanced delay interferometer based OPLL system. Optics Express, 2022, 30, 1994.	3.4	6
2	Enhanced frequency-modulated continuous-wave generation by injection-locking period-one oscillation in semiconductor laser with intensity modulated comb. Optics Express, 2022, 30, 14886-14896.	3.4	3
3	4-antenna Distributed Receiving System for Broadband Signal Transmission and Combination. , 2022, , .		1
4	Elimination of the PMD Related Delay Jitter in an Ultra-Stable Microwave Signal Distribution System. , 2022, , .		0
5	Optical linear frequency sweep based on a mode-spacing swept comb and multi-loop phase-locking for FMCW interferometry. Optics Express, 2021, 29, 604.	3.4	11
6	Dual-frequency Doppler velocimeter based on delay interferometric optical phase-locking. Optics Letters, 2021, 46, 2103.	3.3	5
7	Generation and transmission of phase-stable coherent multi-band linear frequency modulated signals. Optics Letters, 2021, 46, 4005-4008.	3.3	1
8	Dynamic Range Enhanced Optical Frequency Domain Reflectometry Using Dual-Loop Composite Optical Phase-Locking. IEEE Photonics Journal, 2021, 13, 1-7.	2.0	5
9	Sub-terahertz photonic frequency divider with a large division ratio based on phase locking. Optics Letters, 2021, 46, 4268.	3.3	5
10	Remote Michelson interferometric phase sensor based on dual-core fiber transmission and linear phase demodulation. Optics Letters, 2021, 46, 5782.	3.3	3
11	Elimination of the PMD related delay jitter in a fiber stretcher based ultra-stable microwave signal distribution system. Optics Express, 2021, 29, 41609.	3.4	2
12	High-Performance Optical Frequency-Domain Reflectometry Based on High-Order Optical Phase-Locking-Assisted Chirp Optimization. Journal of Lightwave Technology, 2020, 38, 6227-6236.	4.6	20
13	Identifying collagen VI as a target of fibrotic diseases regulated by CREBBP/EP300. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20753-20763.	7.1	45
14	Single cell force profiling of human myofibroblasts reveals a biophysical spectrum of cell states. Biology Open, 2020, 9, .	1.2	6
15	Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. IEEE Photonics Journal, 2020, 12, 1-11.	2.0	13
16	Investigation of analog signal distortion introduced by a fiber phase sensitive amplifier. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2405.	2.1	2
17	Investigation of the noise figure in a degenerate dual-pump phase-sensitive amplifier using a multi-wave model. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2745.	2.1	2
18	Theoretical analysis for fiber-optic distribution of RF signals based on phase-locked loop. Optics Express, 2020, 28, 19851.	3.4	13

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19	Remote broadband RF signal down-conversion with stable phase and high efficiency using a sideband optical phase-locked loop. Optics Express, 2020, 28, 12588.	3.4	3
20	Distribution of optical-comb-based multi-frequency microwave signals over 100km optical fiber with high phase stability. Optics Express, 2020, 28, 16634.	3.4	2
21	Dual-Heterodyne Mixing Based Phase Noise Cancellation for Long Distance Dual-Wavelength FMCW Lidar. , 2020, , .		1
22	Joint Frequency and Time Transfer Over Optical Fiber With High-Precision Delay Variation Measurement Using a Phase-Locked Loop. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	12
23	Programmable linear frequency modulated signal generation using a compact photonics-based scheme. , 2019, , .		0
24	Ultra-long range optical frequency domain reflectometry using a coherence-enhanced highly linear frequency-swept fiber laser source. Optics Express, 2019, 27, 19359.	3.4	32
25	Performance analysis of FSO coherent BPSK systems over Rician turbulence channel with pointing errors. Optics Express, 2019, 27, 27062.	3.4	19
26	Photonic generation of programmable coherent linear frequency modulated signal and its application in X-band radar system. Optics Express, 2019, 27, 37469.	3.4	16
27	Nonlinear response of a gallium phosphide nanopatterned photonic waveguide in the CW regime. Optics Letters, 2019, 44, 2823.	3.3	3
28	High-Efficiency Broadband Remote RF Signal Down-Conversion Based on Sideband Optical Phase-Locked Loop. , 2018, , .		0
29	Phase evolution of the direct detection noise figure of a nondegenerate fiber phase-sensitive amplifier. Optics Letters, 2018, 43, 4546.	3.3	4
30	Distribution of a phase-stabilized 100GHz millimeter-wave signal over a 160 km optical fiber with $41 \text{ Å} - 10^{-17}$ instability. Optics Express, 2018, 26, 339.	3.4	15
31	Photonics-based coherent wideband linear frequency modulation pulsed signal generation. Optics Letters, 2018, 43, 1023.	3.3	22
32	Highly stable dissemination of microwave and millimeter wave signals over fiber-optic links. , 2018, , .		0
33	Investigation of homodyne demodulation of RZ-BPSK signal based on an optical Costas loop. , 2018, , .		1
34	Efficient dynamic coherence transfer relying on offset locking using optical phase-locked loop. , 2018, , .		0
35	A highly precise fiber delay fluctuation measurement with a wide range. , 2018, , .		0
36	Investigation of signal power splitting ratio for BPSK homodyne receiver with an optical Costas loop. Optical Engineering, 2018, 57, 1.	1.0	0

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37	10-Gb/s homodyne receiver based on costas loop with enhanced dynamic performance. , 2017, , .		1
38	Optimization of a degenerate dual-pump phase-sensitive optical parametric amplifier for all-optical regenerative functionality. Optics Express, 2017, 25, 12552.	3.4	7
39	Highly Linear Analog Photonic Link Based on Composite Optical Phase-Locked Loop. , 2017, , .		0
40	Coherent Single-Mode Extraction of Agile Frequency Comb via Phase-Locking for Broadband Phase-Continuous Tuning. , 2017, , .		0
41	Photonic generation of phase-stable and wideband chirped microwave signals based on phase-locked dual optical frequency combs. Optics Letters, 2016, 41, 3787.	3.3	14
42	Fourier transform-limited optical frequency-modulated continuous-wave interferometry over several tens of laser coherence lengths. Optics Letters, 2016, 41, 2962.	3.3	22
43	Fast Spectrum Analysis for an OFDR Using the FFT and SCZT Combination Approach. IEEE Photonics Technology Letters, 2016, 28, 657-660.	2.5	13
44	Phase-sensitive Amplification Using Coherent Population Oscillations in Metastable Helium. , 2016, , .		0
45	Dynamic frequency-noise spectrum measurement for a frequency-swept DFB laser with short-delayed self-heterodyne method. Optics Express, 2015, 23, 29245.	3.4	25
46	The laser phase measurement by phase-smooth unwrapping algorithm and its application in phase error compensation of OFMCW. , 2015, , .		0
47	Power-area method to precisely estimate laser linewidth from its frequency-noise spectrum. Applied Optics, 2015, 54, 8282.	2.1	17
48	Investigation of degenerate dual-pump phase sensitive amplifier using multi-wave model. Optics Express, 2015, 23, 31896.	3.4	22
49	Photonic generation of low phase noise arbitrary chirped microwave waveforms with large time-bandwidth product. Optics Express, 2015, 23, 18070.	3.4	8
50	Precise linearization of broadband frequency chirp for coherent optical frequency domain reflectometry. , 2015, , .		0
51	Coherence enhancement of a chirped DFB laser for frequency-modulated continuous-wave reflectometry using a composite feedback loop. Optics Letters, 2015, 40, 4500.	3.3	41
52	Linearization of broadband frequency sweep for temperature tuned DFB laser using an optoelectronic feedback loop. , 2015, , .		1
53	Distribution of high-stability 10ÂGHz local oscillator over 100Âkm optical fiber with accurate phase-correction system. Optics Letters, 2014, 39, 888.	3.3	30
54	High-Sensitivity 5Gb/s BPSK Homodyne Detection using Costas Loop. , 2014, , .		1

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55	Distribution of high-stability 10004â€™â€™GHz millimeter wave signal over 60â€™â€™km optical fiber with fast phase-error-correcting capability. Optics Letters, 2014, 39, 2849.	3.3	25
56	Photonic generation of millimeter and terahertz waves with high phase stability. Optics Letters, 2014, 39, 1493.	3.3	25
57	Events Detection in OTDR data based on a method combining Correlation Matching with STFT. , 2014, , .		3
58	Compensation of phase error in optical frequency-domain reflectometry using delay-matched sampling. Optical Engineering, 2014, 53, 074103.	1.0	7
59	Photonic generation of linearly chirped millimeter wave based on comb-spacing tunable optical frequency comb. Optical Engineering, 2013, 52, 126107.	1.0	2
60	Coherent Comb Generation With Continuous Sweep of Repetition Rate Over One-Octave. IEEE Photonics Technology Letters, 2013, 25, 2405-2407.	2.5	7
61	Photonic Radio-Frequency Phase Detector based on Radio-Frequency to Intermediate-Frequency Phase Mapping. , 2013, , .		2
62	Phase drift cancellation of remote radio frequency transfer using an optoelectronic delay-locked loop. Optics Letters, 2011, 36, 873.	3.3	36
63	<title>A novel scheme of unicast and multicast in WDM-PON using reflective semiconductor optical amplifier</title>. , 2009, , .		0
64	Limit beat-frequency noise by employing receive low-pass filter and earn extra power budget margin for dual-band RSOA-based WDM-PON. , 2008, , .		1