Shangjian Zhang

List of Publications by Year
in descending order

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77 papers	1,077 citations	516710 16 h-index	434195 31 g-index
77 all docs	77 docs citations	77 times ranked	941 citing authors

#	Article	IF	Citations
1	Self-reference frequency response characterization of photodiode chips based on photonic sampling and microwave de-embedding. Optics Express, 2022, 30, 2299.	3.4	2
2	Self-referenced electro-optic response measurement of dual-parallel Mach-Zehnder modulators employing single-tone level control and low-frequency bias swing. Optics Express, 2022, 30, 12596.	3.4	0
3	Harmonically mode-locked optoelectronic oscillator with ultra-low supermode noise. Optics and Laser Technology, 2022, 151, 108036.	4.6	8
4	Frequency Response Enhancement of Photonic Sampling Based on Cavity-Less Ultra-Short Optical Pulse Source. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	2
5	Self-calibrated characterization of high-speed photodetectors based on slowly-varying-envelope photonic sampling. , 2022, , .		0
6	Flat Optical Frequency Comb Generation Based on Monolithic Integrated LNOI Intensity and Phase Modulator. Photonics, 2022, 9, 495.	2.0	3
7	Accurate Calibration and Measurement of Optoelectronic Devices. Journal of Lightwave Technology, 2021, 39, 3687-3698.	4.6	7
8	Frequency response measurement of high-speed photodiodes based on a photonic sampling of an envelope-modulated microwave subcarrier. Optics Express, 2021, 29, 9836.	3.4	6
9	High-frequency characterization of high-speed modulators and photodetectors in a link with low-speed photonic sampling. Journal of Semiconductors, 2021, 42, 042303.	3.7	5
10	Real-time observation of pulsating period-doubled vector solitons in a passively mode-locked fiber laser. Optics Express, 2021, 29, 14101.	3.4	21
11	Microwave pulse generation via employing an electric signal modulator to achieve time-domain mode locking in an optoelectronic oscillator. Optics Letters, 2021, 46, 2107.	3.3	26
12	Broadband Transient Waveform Digitizer Based on Photonic Time Stretch. Journal of Lightwave Technology, 2021, 39, 2880-2887.	4.6	6
13	Self-Calibrated Measurement of Frequency Response for Broadband Photodetectors Based on Two-Tone Photonic Sampling. Frontiers in Physics, 2021, 9, .	2.1	0
14	Modeling an actively mode-locked optoelectronic oscillator based on electric amplitude modulation. Optics Express, 2021, 29, 23835.	3.4	19
15	Multi-format microwave signal generation based on an optoelectronic oscillator. Optics Express, 2021, 29, 30834.	3.4	6
16	Simultaneous frequency response measurement of electro-absorption modulation transceivers based on self-referenced pilot operation. Optics Express, 2021, 29, 39241-39248.	3.4	0
17	Costas-coded linear frequency modulation waveform generation based on a VCO-controlled Fourier domain mode locking optoelectronic oscillator. Optics Express, 2021, 29, 40274.	3.4	1
18	Computational model of an active mode locking optoelectronic oscillator. , 2021, , .		0

#	Article	IF	Citations
19	Broadband high-resolution microwave frequency measurement based on photonic undersampling via using three cavity-less optical pulse sources with coprime repetition rates. Applied Optics, 2020, 59, 8056.	1.8	3
20	Frequency-definable linearly chirped microwave waveform generation by a Fourier domain mode locking optoelectronic oscillator based on stimulated Brillouin scattering. Optics Express, 2020, 28, 13861.	3.4	22
21	Flexible ultra-wide frequency microwave down-conversion based on re-circulating four-wave mixing in a semiconductor optical amplifier. Optics Express, 2020, 28, 17782.	3.4	8
22	Vector dynamics of pulsating solitons in an ultrafast fiber laser. Optics Letters, 2020, 45, 5024.	3.3	24
23	Photonic microwave frequency measurement based on harmonic down-conversion by using a semiconductor optical amplifier. , 2020, , .		0
24	Influence of the humid air on the structure and fluorescent property of CsI:Tl thin film. Journal of Materials Science: Materials in Electronics, 2019, 30, 7691-7694.	2.2	1
25	Self-Calibrating Microwave Characterization of Broadband Machâ€“Zehnder Electro-Optic Modulator Employing Low-Speed Photonic Down-Conversion Sampling and Low-Frequency Detection. Journal of Lightwave Technology, 2019, 37, 2668-2674.	4.6	12
26	Hyperfine Intrinsic Magnitude and Phase Response Measurement of Optical Filters Based on Electro-Optical Harmonics Heterodyne and Wienerâ€“Lee Transformation. Journal of Lightwave Technology, 2019, 37, 2654-2660.	4.6	6
27	Self-referenced frequency response measurement of high-speed photodetectors through segmental up-conversion based on low-speed photonic sampling. Optics Express, 2019, 27, 38250.	3.4	16
28	High-resolution and Self-calibration Microwave Characterization of High-speed Optoelectronic Devices. , 2019, , .		0
29	Deadband-free Microwave Frequency Measurement by Cross-referenced Photonic Harmonic Down-conversion based on Cascaded Four Wave Mixing of SOAs. , 2019, , .		0
30	Cross-referenced deadband-free microwave frequency measurement with cascaded-four-wave-mixing-based photonic harmonic down-conversion. Optics Express, 2019, 27, 23714.	3.4	3
31	Frequency response measurement of high-speed electro-optic phase modulators via a single scan based on low-speed photonic sampling and low-frequency detection. Optics Express, 2019, 27, 32370.	3.4	6
32	Electrical Probing Test for Characterizing Wideband Optical Transceiving Devices with Self-Reference and On-Chip Capability. Journal of Lightwave Technology, 2018, 36, 4326-4336.	4.6	10
33	Photonic Microwave Frequency Measurement Based on Frequency-Configurable Pilot Tones. IEEE Photonics Technology Letters, 2018, 30, 363-366.	2.5	12
34	Microwave Photonic Harmonic Down-Conversion Based on Cascaded Four-Wave Mixing in a Semiconductor Optical Amplifier. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	14
35	Stepwise Frequency-Shifted Optical Heterodyne for Flexible and Ultrawide Frequency Microwave Down-Conversion. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3557-3563.	4.6	2
36	Mechanism of dissipative-soliton-resonance generation in fiber laser mode-locked by real saturable absorber. Optics Express, 2018, 26, 21314.	3.4	28

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37	All-electrical Microwave Characterization of High-speed Optoelectronic Devices with Self-reference and On-chip Capability. , 2018, , .		0
38	Accurate time-delay measurement of optical delay components based on frequency-shifted self-heterodyne spectrum. , 2018, , .		1
39	Magnitude response measurement of electro-optic intensity modulator based on photonic downconversion sampling. , 2018, , .		0
40	Optimized Single-Shot Photonic Time-Stretch Digitizer Using Complementary Parallel Single-Sideband Modulation Architecture and Digital Signal Processing. IEEE Photonics Journal, 2017, 9, 1-14.	2.0	1
41	Wideband and High-Resolution Measurement of Magnitude-Frequency Response for Optical Filters Based on Fixed-Low-Frequency Heterodyne Detection. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	4
42	Self-Calibrated Microwave Characterization of High-Speed Optoelectronic Devices by Heterodyne Spectrum Mapping. Journal of Lightwave Technology, 2017, 35, 1952-1961.	4.6	27
43	Photonic integrated chips for low-power, high-bandwidth communications. , 2017, , .		0
44	Bias-Independent and Self-Calibrated Electrical Method for Microwave Characterization of Dual-Parallel Machâ€“Zehnder Modulators Based on Two-Tone and Bias-Swing Modulation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2636-2643.	4.6	8
45	Self-Calibrated and Extinction-Ratio-Independent Microwave Characterization of Electrooptic Machâ€“Zehnder Modulators. IEEE Microwave and Wireless Components Letters, 2017, 27, 948-950.	3.2	8
46	Broadband high-resolution microwave frequency measurement based on low-speed photonic analog-to-digital converters. Optics Express, 2017, 25, 2355.	3.4	25
47	On-wafer probing-kit for RF characterization of silicon photonic integrated transceivers. Optics Express, 2017, 25, 13340.	3.4	17
48	8 Ã— 8 Ã— 40â€‰â€‰Gbps fully integrated silicon photonic network on chip. Optica, 2016, 3, 785.	9.3	115
49	Hyperfine magnitude response measurement for optical filters based on low-frequency detection. , 2016, , .		0
50	Self-calibrated electrical measurement of magnitude response of optical filters based on dual-frequency-shifted heterodyne. Optical Engineering, 2016, 55, 056105.	1.0	7
51	Broadband linearization in photonic time-stretch analog-to-digital converters employing an asymmetrical dual-parallel Mach-Zehnder modulator and a balanced detector. Optics Express, 2016, 24, 11546.	3.4	15
52	Self-referenced electrical method for measuring frequency response of high-speed Mach-Zehnder modulators based on two-tone modulation. , 2016, , .		0
53	Fabrication and Performance of Micron Thick CsI(Tl) Films for X-Ray Imaging Application. IEEE Transactions on Nuclear Science, 2016, 63, 1827-1831.	2.0	6
54	Two-tone intensity-modulated optical stimulus for self-referencing microwave characterization of high-speed photodetectors. Optics Communications, 2016, 373, 110-113.	2.1	13

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55	Calibration-free measurement of high-speed Machâ€“Zehnder modulator based on low-frequency detection. Optics Letters, 2016, 41, 460.	3.3	24
56	2.56 Tbps (8 Ã— 8 Ã— 40 Gbps) Fully-Integrated Silicon Photonic Interconnection Circuit. , 2016, , .		2
57	Independently Self-calibrated Frequency Response Measurements of High-speed Modulators and Photodetectors with Same Setup. , 2016, , .		1
58	Calibration-free absolute frequency response measurement of directly modulated lasers based on additional modulation. Optics Letters, 2015, 40, 4727.	3.3	9
59	Compact noise-like pulse fiber laser and its application for supercontinuum generation in highly nonlinear fiber. Applied Optics, 2015, 54, 9379.	2.1	32
60	Optical Frequency-Detuned Heterodyne for Self-Referenced Measurement of Photodetectors. IEEE Photonics Technology Letters, 2015, 27, 1014-1017.	2.5	24
61	Few-layer MoS_2 grown by chemical vapor deposition as a passive Q-switcher for tunable erbium-doped fiber lasers. Photonics Research, 2015, 3, A92.	7.0	48
62	Calibration-free and bias-drift-free microwave characterization of dual-drive Machâ€“Zehnder modulators using heterodyne mixing. Optical Engineering, 2015, 55, 031109.	1.0	11
63	Extinction-ratio-independent electrical method for measuring chirp parameters of Machâ€“Zehnder modulators using frequency-shifted heterodyne. Optics Letters, 2015, 40, 2854.	3.3	15
64	Precise measurement of fiber dispersion based on phaseâ€modulated signal fading. Microwave and Optical Technology Letters, 2014, 56, 427-430.	1.4	5
65	Self-calibrating measurement of high-speed electro-optic phase modulators based on two-tone modulation. Optics Letters, 2014, 39, 3504.	3.3	36
66	160 GSa/s all-optical pulsed sampling with a single semiconductor optical amplifier. , 2014, , .		0
67	Calibration-Free Electrical Spectrum Analysis for Microwave Characterization of Optical Phase Modulators Using Frequency-Shifted Heterodyning. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	11
68	Fiber chromatic dispersion measurement with improved measurement range based on chirped intensity modulation. Photonics Research, 2014, 2, B26.	7.0	8
69	Measuring high-frequency responses of an electro-optic phase modulator based on dispersion induced phase modulation to intensity modulation conversion. Proceedings of SPIE, 2014, , .	0.8	0
70	Ultrafast erbium-doped fiber laser mode-locked by a CVD-grown molybdenum disulfide (MoS_2) saturable absorber. Optics Express, 2014, 22, 17341.	3.4	281
71	Analog-to-digital converters using photonic technology. Science Bulletin, 2014, 59, 2666-2671.	1.7	12
72	Measuring Chromatic Dispersion Using Periodic Fading of Phase Modulation. , 2014, , .		0

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73	Measurement of modulation index and half-wave voltage of an electro-optical phase modulator with a dispersion-based phase filter. Optics Communications, 2012, 285, 5089-5093.	2.1	13
74	All-optical sampling exploiting nonlinear polarization rotation in a single semiconductor optical amplifier. Optics Communications, 2012, 285, 1001-1004.	2.1	10
75	Fiber-dispersion-induced signal fading for measuring high-frequency modulation efficiency of an electrooptic phase modulator. , 2011, , .		1
76	Characterization of nonlinearity using polynomial transfer function of allâ€optical sampling. Microwave and Optical Technology Letters, 2011, 53, 216-219.	1.4	2
77	All-optical 2R regeneration based on self-induced polarization rotation in a single semiconductor optical amplifier. Science Bulletin, 2009, 54, 3704-3708.	1.7	6