

X Steve Yao

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,928
citations

257450

24
h-index

168389

53
g-index

83
all docs

83
docs citations

83
times ranked

1604
citing authors

#	ARTICLE	IF	CITATIONS
1	Optoelectronic microwave oscillator. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1725.	2.1	982
2	Converting light into spectrally pure microwave oscillation. Optics Letters, 1996, 21, 483.	3.3	208
3	Pigtailing the high-Q microsphere cavity: a simple fiber coupler for optical whispering-gallery modes. Optics Letters, 1999, 24, 723.	3.3	208
4	Dual microwave and optical oscillator. Optics Letters, 1997, 22, 1867.	3.3	130
5	Microtorus: a high-finesse microcavity with whispering-gallery modes. Optics Letters, 2001, 26, 256.	3.3	102
6	Compensation of laser frequency tuning nonlinearity of a long range OFDR using deskew filter. Optics Express, 2013, 21, 3826.	3.4	94
7	All-optic scheme for automatic polarization division demultiplexing. Optics Express, 2007, 15, 7407.	3.4	80
8	Long-range vibration sensor based on correlation analysis of optical frequency-domain reflectometry signals. Optics Express, 2012, 20, 28319.	3.4	75
9	High-quality microwave signal generation by use of Brillouin scattering in optical fibers. Optics Letters, 1997, 22, 1329.	3.3	74
10	Widely tunable single-/dual-wavelength fiber lasers with ultra-narrow linewidth and high OSNR using high quality passive subring cavity and novel tuning method. Optics Express, 2016, 24, 19760.	3.4	47
11	Complete Characterization of Polarization-Maintaining Fibers Using Distributed Polarization Analysis. Journal of Lightwave Technology, 2015, 33, 372-380.	4.6	46
12	Accurate method for measuring the thermal coefficient of group birefringence of polarization-maintaining fibers. Optics Letters, 2011, 36, 2173.	3.3	44
13	Theory of beam coupling and pulse shaping of mode-locked laser pulses in a photorefractive crystal. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 2347.	2.1	40
14	Switchable 0.612-nm-Spaced Dual-Wavelength Fiber Laser With Sub-kHz Linewidth, Ultra-High OSNR, Ultra-Low RIN, and Orthogonal Polarization Outputs. Journal of Lightwave Technology, 2019, 37, 3173-3182.	4.6	40
15	Note: Improving spatial resolution of optical frequency-domain reflectometry against frequency tuning nonlinearity using non-uniform fast Fourier transform. Review of Scientific Instruments, 2012, 83, 066110.	1.3	38
16	A novel method for determining and improving the quality of a quadrupolar fiber gyro coil under temperature variations. Optics Express, 2013, 21, 2521.	3.4	38
17	Practical Solutions to Polarization-Mode-Dispersion Emulation and Compensation. Journal of Lightwave Technology, 2006, 24, 3992-4005.	4.6	36
18	Four-wavelength-switchable SLM fiber laser with sub-kHz linewidth using superimposed high-birefringence FBG and dual-coupler ring based compound-cavity filter. Optics Express, 2019, 27, 36662.	3.4	35

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19	Long Measurement Range OFDR Beyond Laser Coherence Length. IEEE Photonics Technology Letters, 2013, 25, 202-205.	2.5	34
20	Highly repeatable all-solid-state polarization-state generator. Optics Letters, 2005, 30, 1324.	3.3	28
21	High accuracy polarization measurements using binary polarization rotators. Optics Express, 2010, 18, 6667.	3.4	28
22	High stability multiwavelength random erbium-doped fiber laser with a reflecting-filter of six-superimposed fiber-Bragg-gratings. OSA Continuum, 2019, 2, 2526.	1.8	28
23	Wavelength-switchable ultra-narrow linewidth fiber laser enabled by a figure-8 compound-ring-cavity filter and a polarization-managed four-channel filter. Optics Express, 2021, 29, 31179.	3.4	27
24	Switchable 10 nm-spaced dual-wavelength SLM fiber laser with sub-kHz linewidth and high OSNR using a novel multiple-ring configuration. Laser Physics Letters, 2016, 13, 105104.	1.4	25
25	Distributed polarization analysis with binary polarization rotators for the accurate measurement of distance-resolved birefringence along a single-mode fiber. Optics Express, 2018, 26, 25989.	3.4	25
26	Distributed transverse stress measurement along an optic fiber using polarimetric OFDR. Optics Letters, 2016, 41, 2819.	3.3	23
27	Measuring the coherence length of mode-locked laser pulses in real time. Applied Physics Letters, 1990, 56, 521-523.	3.3	21
28	Method for improving the resolution and accuracy against birefringence dispersion in distributed polarization cross-talk measurements. Optics Letters, 2012, 37, 2775.	3.3	21
29	Comb filter with independently tunable wavelength spacing and bandwidth using cascaded variable differential group delay elements. Optics Letters, 2011, 36, 2305.	3.3	20
30	Measurements of the thermal coefficient of optical attenuation at different depth regions of in vivo human skins using optical coherence tomography: a pilot study. Biomedical Optics Express, 2015, 6, 500.	2.9	20
31	Distributed transverse-force sensing along a single-mode fiber using polarization-analyzing OFDR. Optics Express, 2020, 28, 31253.	3.4	19
32	Opto-electronic oscillators. , 2002, , 255-292.		17
33	Polarimetry fiber optic gyroscope. Optics Express, 2019, 27, 19984.	3.4	17
34	Fourier domain mode-locked opto-electronic oscillator with a diode-tuned bandpass filter. Optics Express, 2020, 28, 23454.	3.4	17
35	Automatic Maximum-Minimum Search Method for Accurate PDL and DOP Characterization. Journal of Lightwave Technology, 2006, 24, 4006-4012.	4.6	15
36	Accurate measurements of circular and residual linear birefringences of spun fibers using binary polarization rotators. Optics Express, 2017, 25, 30780.	3.4	15

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37	Self-calibrating binary polarization analyzer. Optics Letters, 2006, 31, 1948.	3.3	14
38	First Quantitative Determination of Birefringence Variations Induced by Axial-Strain in Polarization Maintaining Fibers. Journal of Lightwave Technology, 2017, 35, 4937-4942.	4.6	14
39	C-band 41-wavelength-switchable single-longitudinal-mode fiber laser with sub-kHz linewidth and high stability using a wide-band chirped Moiré fiber Bragg grating. Laser Physics Letters, 2019, 16, 025106.	1.4	14
40	Low loss and high extinction ratio all-silicon TM-pass polarizer with reflection removal enabled by contra-mode conversion Bragg-gratings. Optics Express, 2021, 29, 27640.	3.4	13
41	Photonic generation of impulse ultrawideband signals with switchable shapes and polarities based on frequency-to-time mapping. Optics Letters, 2012, 37, 5052.	3.3	10
42	Determination of the Pressure Coefficient of Optical Attenuation in Different Layers of In-Vivo Human Skins With Optical Coherence Tomography. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	10
43	Widely Wavelength-Swept Single-Longitudinal-Mode Fiber Laser With Ultra-Narrow Linewidth in C+L-Band. IEEE Photonics Journal, 2022, 14, 1-10.	2.0	9
44	Temporal shaping of optical pulses using beam coupling in a photorefractive crystal. Optics Letters, 1993, 18, 622.	3.3	8
45	Opto-Electronic Microwave Oscillator. Optics and Photonics News, 1996, 7, 34.	0.5	8
46	Real-time optical spectrum analysis of a light source using a polarimeter. Optics Express, 2008, 16, 17854.	3.4	8
47	Widely tunable/wavelength-swept SLM fiber laser with ultra-narrow linewidth and ultra-high OSNR. Optoelectronics Letters, 2016, 12, 433-436.	0.8	8
48	Demonstration of Compact In situ Mueller-Matrix Polarimetry Based on Binary Polarization Rotators. IEEE Access, 2019, 7, 144561-144571.	4.2	8
49	Introduction and measurement of the effective Verdet constant of spun optical fibers. Optics Express, 2021, 29, 23315.	3.4	8
50	PM fiber based sensing tapes with automated 45° birefringence axis alignment for distributed force/pressure sensing. Optics Express, 2020, 28, 18829.	3.4	8
51	High-speed, stable and repeatable PMD emulator with tunable statistics. , 0, , .		7
52	Simple in-line method to measure the dispersion of an optical system. Applied Physics Letters, 1993, 62, 811-813.	3.3	6
53	Programmable optical delay generator with uniform output and double-delay capability. Journal of Optical Networking, 2007, 6, 13.	2.5	5
54	PDM RZ-to-NRZ and NRZ-to-PRZ format conversions using a variable DGD element inside a polarization-diversified loop. Optics Letters, 2012, 37, 2535.	3.3	5

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55	Compact cross-slot waveguide polarization beam splitter using a sandwich-type coupler. Applied Optics, 2020, 59, 1447.	1.8	5
56	Broadband and high extinction ratio hybrid plasmonic waveguide-based TE-pass polarizer using multimode interference. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2968.	2.1	5
57	Quadrupling Optical Delay Range Using Polarization Properties. IEEE Photonics Technology Letters, 2008, 20, 1775-1777.	2.5	4
58	Demonstration of Distributed Fiber Optic Temperature Sensing Using Polarization Crosstalk Analysis. , 2016, , .		4
59	Clamping-force induced birefringence in a single-mode fiber in commercial V-grooves investigated with distributed polarization analysis. Optics Express, 2022, 30, 5347.	3.4	4
60	Photorefractive pulse coupling in the frequency domain. Optics Letters, 1993, 18, 104.	3.3	3
61	In-service light path PMD (polarization mode dispersion) monitoring by PMD compensation. Optics Express, 2010, 18, 27306.	3.4	3
62	Advanced techniques for evaluating the quality of fiber gyro coils. , 2012, , .		3
63	Reducing the number of polarization controllers in all-fiber polarization-mode-dispersion emulators using polarization maintaining fiber sub-sections with unequal lengths. Optical Fiber Technology, 2008, 14, 172-175.	2.7	2
64	Polarization management for polarization-division-multiplexing and coherent detection systems. , 2008, , .		2
65	Demonstration of distributed fiber-optic temperature sensing with PM fiber using polarization crosstalk analysis technique. , 2016, , .		2
66	Distributed transverse-force sensing along a single-mode fiber using polarization-analyzing OFDR: erratum. Optics Express, 2021, 29, 14355.	3.4	2
67	Complete measuring the polarization parameters of polarization-maintain fiber using distributed polarization crosstalk test method. , 2014, , .		1
68	Long-range high spatial resolution optical frequency-domain reflectometry based on optimized deskew filter method. Proceedings of SPIE, 2014, , .	0.8	1
69	Rapid measurement of transversal flow velocity vector with high spatial resolution using speckle decorrelation optical coherence tomography. Optics Letters, 2017, 42, 3545.	3.3	1
70	Demonstration of Liquid Pressure Fiber Sensing Based on Distributed Polarization Crosstalk Analysis. , 2018, , .		1
71	Switchable Dual-wavelength Erbium-doped Fiber Laser with High OSNR and Stability Using PM-FBG and CFBG. , 2019, , .		1
72	Two-dimensional correlation (2D) method for improving the accuracy of OCT-based noninvasive blood glucose concentration (BGC) monitoring. Lasers in Medical Science, 2021, 36, 1649-1659.	2.1	1

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73	Experimental study of transversal-stress-induced polarization crosstalk behaviors in polarization maintaining fibers. , 2019, , .		1
74	Fast optical frequency detection techniques for coherent distributed sensing and communication systems. , 2022, , .		1
75	Deterministic first-order and second-order polarization mode dispersion compensator using binary polarization switches. Proceedings of SPIE, 2008, , .	0.8	0
76	A novel scheme for all-optical automatic polarization division demultiplexing. , 2009, , .		0
77	Distributed Measurement of Bending-Induced Birefringence in Single-Mode Fibers with PA-OFDR. , 2018, , .		0
78	Widely tunable single-/dual-wavelength fiber lasers with ultra-narrow linewidth and high OSNR using high quality passive subring cavity and novel tuning method: erratum. Optics Express, 2021, 29, 14354.	3.4	0
79	Complete self-calibration compact binary magneto-optic rotator based Mueller matrix polarimetry. Optics Express, 2021, 29, 30392.	3.4	0
80	Two-dimensional correlation between blood glucose and optical scattering for noninvasive blood glucose sensing with optical coherence tomography. , 2016, , .		0
81	Noninvasive examination of the cardiac properties of insect embryos enabled by optical coherence tomography. Journal of Biophotonics, 2022, , e202100308.	2.3	0
82	Clamping-force induced birefringence in a single-mode fiber in commercial V-grooves investigated with distributed polarization analysis: erratum. Optics Express, 2022, 30, 14615.	3.4	0