Zinan Wang

List of Publications by Year
in descending order

94	2,336	25	46
papers	citations	h-index	g-index
		236925	223800

94	94	94	1039
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coherent Î¦-OTDR based on I/Q demodulation and homodyne detection. Optics Express, 2016, 24, 853.	3.4	330
2	Recent advances in fundamentals and applications of random fiber lasers. Advances in Optics and Photonics, 2015, 7, 516.	25.5	248
3	Separation and Determination of the Disturbing Signals in Phase-Sensitive Optical Time Domain Reflectometry (Î¦-OTDR). Journal of Lightwave Technology, 2015, 33, 3156-3162.	4.6	108
4	High Power Random Fiber Laser With Short Cavity Length: Theoretical and Experimental Investigations. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 10-15.	2.9	85
5	Distributed Acoustic Sensing Based on Pulse-Coding Phase-Sensitive OTDR. IEEE Internet of Things Journal, 2019, 6, 6117-6124.	8.7	83
6	Interference Fading Elimination With Single Rectangular Pulse in Phi-OTDR. Journal of Lightwave Technology, 2019, 37, 3381-3387.	4.6	72
7	Broadband flat-amplitude multiwavelength Brillouin-Raman fiber laser with spectral reshaping by Rayleigh scattering. Optics Express, 2013, 21, 29358.	3.4	67
8	Third-order random lasing via Raman gain and Rayleigh feedback within a half-open cavity. Optics Express, 2013, 21, 20090.	3.4	59
9	Rayleigh Fading Suppression in One-Dimensional Optical Scatters. IEEE Access, 2019, 7, 17125-17132.	4.2	56
10	Temporal ghost imaging with random fiber lasers. Optics Express, 2020, 28, 9957.	3.4	54
11	Quasi-kilowatt random fiber laser. Optics Letters, 2019, 44, 2613.	3.3	47
12	175-km Repeaterless BOTDA With Hybrid High-Order Random Fiber Laser Amplification. Journal of Lightwave Technology, 2019, 37, 4680-4686.	4.6	46
13	Role of the mirrorâ€™s reflectivity in forward-pumped random fiber laser. Optics Express, 2015, 23, 1421.	3.4	44
14	Ultra-Long-Distance Hybrid BOTDA/Đ-OTDR. Sensors, 2018, 18, 976.	3.8	42
15	Single-Shot COTDR Using Sub-Chirped-Pulse Extraction Algorithm for Distributed Strain Sensing. Journal of Lightwave Technology, 2020, 38, 2028-2036.	4.6	42
16	PMD and PDL impairments in polarization division multiplexing signals with direct detection. Optics Express, 2009, 17, 7993.	3.4	38
17	Flat amplitude multiwavelength Brillouinâ€“Raman random fiber laser with a half-open cavity. Applied Physics B: Lasers and Optics, 2013, 112, 467-471.	2.2	38
18	Long-distance random fiber laser point sensing system incorporating active fiber. Optics Express, 2016, 24, 22448.	3.4	37

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19	Low-noise high-order Raman fiber laser pumped by random lasing. Optics Letters, 2020, 45, 5804.	3.3	37
20	Noise level estimation of BOTDA for optimal non-local means denoising. Applied Optics, 2017, 56, 4727.	2.1	36
21	Long-distance distributed acoustic sensing utilizing negative frequency band. Optics Express, 2020, 28, 35844.	3.4	34
22	Bipolar-Coding Phi-OTDR with Interference Fading Elimination and Frequency Drift Compensation. Journal of Lightwave Technology, 2020, 38, 6121-6128.	4.6	33
23	1.5 Î¼m Low Threshold, High Efficiency Random Fiber Laser with Hybrid Erbiumâ€"Raman Gain. Journal of Lightwave Technology, 2018, 36, 844-849.	4.6	30
24	Automatic optical polarization demultiplexing for polarization division multiplexed signals. Optics Express, 2009, 17, 3183.	3.4	28
25	Crapemyrtle Bark Scale: A New Threat for Crapemyrtles, a Popular Landscape Plant in the U.S.. Insects, 2016, 7, 78.	2.2	28
26	Field test of a fully distributed fiber optic intrusion detection system for long-distance security monitoring of national borderline. Proceedings of SPIE, 2014, , .	0.8	27
27	Physiology of crapemyrtle bark scale, Acanthococcus lagerstroemiae (Kuwana), associated with seasonally altered cold tolerance. Journal of Insect Physiology, 2019, 112, 1-8.	2.0	25
28	Impact of I/Q Amplitude Imbalance on Coherent $Phi $ -OTDR. Journal of Lightwave Technology, 2018, 36, 1069-1075.	4.6	24
29	Optimized Feedforward Neural Network Training for Efficient Brillouin Frequency Shift Retrieval in Fiber. IEEE Access, 2019, 7, 68034-68042.	4.2	24
30	Ultra-long dual-sideband BOTDA with balanced detection. Optics and Laser Technology, 2015, 68, 206-210.	4.6	23
31	LÃ©vy spectral intensity statistics in a Raman random fiber laser. Optics Letters, 2019, 44, 2799.	3.3	23
32	Polarization-modulated random fiber laser. Laser Physics Letters, 2016, 13, 055101.	1.4	22
33	Common-cavity ytterbium/Raman random distributed feedback fiber laser. Laser Physics Letters, 2017, 14, 065101.	1.4	22
34	Quasi-distributed acoustic sensing with interleaved identical chirped pulses for multiplying the measurement slew-rate. Optics Express, 2020, 28, 38465.	3.4	22
35	Bandwidth-Enhanced Quasi-Distributed Acoustic Sensing With Interleaved Chirped Pulses. IEEE Sensors Journal, 2020, 20, 12739-12743.	4.7	21
36	Characterization and Compensation of Phase Offset in Î¦-OTDR With Heterodyne Detection. Journal of Lightwave Technology, 2018, 36, 5481-5487.	4.6	20

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37	High sensitivity and large measurable range distributed acoustic sensing with Rayleigh-enhanced fiber. Optics Letters, 2021, 46, 2569.	3.3	20
38	A Review of the Tawny Crazy Ant, Nylanderia fulva, an Emergent Ant Invader in the Southern United States: Is Biological Control a Feasible Management Option?. Insects, 2016, 7, 77.	2.2	19
39	Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. IEEE Internet of Things Journal, 2021, 8, 15284-15291.	8.7	19
40	Wideband Remote-Sensing Based on Random Fiber Laser. Journal of Lightwave Technology, 2022, 40, 3104-3110.	4.6	18
41	Low-Threshold, High-Efficiency Random Fiber Laser With Linear Output. IEEE Photonics Technology Letters, 2015, 27, 319-322.	2.5	17
42	Chirped-pulse coherent-OTDR with predistortion. Journal of Optics (United Kingdom), 2018, 20, 034001.	2.2	16
43	Difference-Frequency Generation of Random Fiber Lasers for Broadly Tunable Mid-Infrared Continuous-Wave Random Lasing Generation. Journal of Lightwave Technology, 2022, 40, 2965-2970.	4.6	16
44	LD-Pumped Random Fiber Laser Based on Erbium-Ytterbium Co-Doped Fiber. Photonic Sensors, 2020, 10, 181-185.	5.0	13
45	Artificial Neural Network for Accurate Retrieval of Fiber Brillouin Frequency Shift With Non-Local Effects. IEEE Sensors Journal, 2020, 20, 8559-8569.	4.7	13
46	Design of a microstructure fibre for slope-matched dispersion compensation. Journal of Optics, 2007, 9, 435-440.	1.5	12
47	High sensitivity third-order autocorrelation measurement by intensity modulation and third harmonic detection. Optics Letters, 2011, 36, 2372.	3.3	12
48	Multiwavelength ytterbium-Brillouin random Rayleigh feedback fiber laser. Laser Physics Letters, 2018, 15, 035105.	1.4	12
49	Temperature-Dependent Development and Host Range of Crapemyrtle Bark Scale, Acanthococcus lagerstroemiae (Kuwana) (Hemiptera: Eriococcidae). Florida Entomologist, 2019, 102, 181.	0.5	12
50	Effects of Winter Cover Crops on Rice Pests, Natural Enemies, and Grain Yield in a Rice Rotation System. Journal of Insect Science, 2019, 19, .	1.5	11
51	Impact of feedback bandwidth on Raman random fiber laser remote-sensing. Optics Express, 2022, 30, 21268.	3.4	11
52	175km phase-sensitive OTDR with hybrid distributed amplification. Proceedings of SPIE, 2014, , .	0.8	9
53	Thermal Tolerance and Prediction of Northern Distribution of the Crapemyrtle Bark Scale (Hemiptera:) Tj ETQq1 1 0.784314 rgBT /Overl	1.4	9
54	Integrated principal component analysis denoising technique for phase-sensitive optical time domain reflectometry vibration detection. Applied Optics, 2020, 59, 669.	1.8	9

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55	Spectrum-adjustable random lasing in single-mode fiber controlled by a FBG. Optics and Laser Technology, 2014, 57, 100-103.	4.6	8
56	Golay Coding Î¦-OTDR With Distributed Frequency-Drift Compensation. IEEE Sensors Journal, 2022, 22, 12894-12899.	4.7	8
57	Cascaded random distributed-feedback Raman fiber laser assisted by Fresnel reflection. Optics Express, 2015, 23, 28076.	3.4	7
58	Identification and Gene Expression Analysis of the Pheromone Biosynthesis Activating Neuropeptide Receptor (PBANR) From the Ostrinia furnacalis (Lepidoptera: Pyralidae). Journal of Insect Science, 2019, 19, .	1.5	7
59	Long-range BOTDA denoising with multi-threshold 2D discrete wavelet. , 2016, , .		7
60	Novel long-distance fiber-optic sensing systems based on random fiber lasers. Proceedings of SPIE, 2012, , .	0.8	6
61	124km phase-sensitive OTDR with Brillouin amplification. Proceedings of SPIE, 2014, , .	0.8	6
62	157km BOTDA with pulse coding and image processing. Proceedings of SPIE, 2016, , .	0.8	6
63	Tailoring the efficiency and spectrum of a green random laser generated by frequency doubling of random fiber lasers. Optics Express, 2021, 29, 21521.	3.4	6
64	Channel-multiplexing for quasi-distributed acoustic sensing with orthogonal codes. Optics Express, 2021, 29, 36828.	3.4	6
65	Ultrafast convergent power-balance model for Raman random fiber laser with half-open cavity. Optics Express, 2020, 28, 22500.	3.4	6
66	Adaptive sensor selection for multitarget detection in Heterogeneous Sensor Networks. , 2010, , .		5
67	Spectral Tailoring of Random Fiber Laser Based on the Multimode Interference Filter. IEEE Access, 2018, 6, 39435-39441.	4.2	5
68	Distributed acoustic sensing based on correlation analysis of fast and linear sweep OFDR. , 2017, , .		4
69	Optical pulse compression radar at double repetition rate with both positive and negative beat frequencies. , 2017, , .		4
70	Bipolar coding for phase-demodulated Î¦-OTDR with coherent detection. , 2019, , .		4
71	Ultraflat supercontinuum generation in a dispersion-flattened microstructure fiber. Microwave and Optical Technology Letters, 2007, 49, 1062-1064.	1.4	3
72	Optimization of Detection Schemes in BOTDA. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
73	Towards ultra-long-distance distributed fiber optic sensing. , 2017, , .		2
74	100km dynamic strain sensing via CP-Î¦OTDR. , 2018, , .		2
75	Antagonistic pleiotropy can promote adaptation to patchy environments*. Evolution; International Journal of Organic Evolution, 2021, 75, 197-199.	2.3	2
76	Dynamic coherent optical time-domain reflectometry with pulse compression. , 2019, , .		2
77	Non-local means denoising based on noise level estimation for BOTDA. , 2016, , .		1
78	Cladding-pumped Erbium-Ytterbium co-doped random fiber laser. , 2017, , .		1
79	Impact of optical front-end imbalance in Î¦-OTDR with coherent receiver. , 2017, , .		1
80	Quantitative Measurement of Î³-Ray and e-Beam Effects on Fiber Rayleigh Scattering Coefficient. Photonic Sensors, 2021, 11, 298.	5.0	1
81	Tunable singleâ€toâ€dual channel wavelength conversion of picosecond pulses based on fourâ€wave mixing in microstructure fibers. Microwave and Optical Technology Letters, 2008, 50, 1453-1455.	1.4	0
82	PMD and PDL tolerance of polarization division multiplexed signals with direct detection. , 2008, , .		0
83	Long-distance fiber-optic point-sensing systems based on the second-order random fiber laser. , 2012, , .		0
84	CO 2 -laser induced long-period fiber gratings in nano-engineered bend insensitive single-mode fiber. Proceedings of SPIE, 2012, , .	0.8	0
85	High-power, high-efficiency random fiber lasing with a low reflectivity mirror. , 2015, , .		0
86	Proposal for distributed measurement of MÃ¼ller matrix in optical fibers. , 2016, , .		0
87	Optimized ANN training strategy for fast and accurate fiber Brillouin frequency shift calculation. , 2018, , .		0
88	Validity of Kramers-Kronig Relation in Signal Retrieval of Î¦-OTDR. , 2018, , .		0
89	The application of PCA on Õ“-OTDR sensing system for vibration detection. , 2019, , .		0
90	Sociosexual environments can drive the evolution of plasticity in mating behavior *. Evolution; International Journal of Organic Evolution, 2021, 75, 195-196.	2.3	0

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91	Remote point-sensing systems based on erbium-Raman random fiber laser. , 2016, , .		0
92	Spectral tailoring of random fiber laser utilizing multimode fiber. , 2018, , .		0
93	Real-time compensation of the time-skew and phase-mismatch for Heterodyne DAS system. , 2019, , .		0
94	Expressions with Aspectual Verbs Elicit Slower Reading Times than Those with Psychological Verbs: An Eye-Tracking Study in Mandarin Chinese. Journal of Psycholinguistic Research, 2022, , 1.	1.3	0