Nan Guo

List of Publications by Year
in descending order

47 papers	815 citations	516710 16 h-index	501196 28 g-index
47 all docs	47 docs citations	47 times ranked	470 citing authors

#	Article	IF	Citations
1	Gender-specific co-developmental trajectories of internalizing and externalizing problems from middle childhood to early adolescence: Environmental and individual predictors. Development and Psychopathology, 2023, 35, 1468-1483.	2.3	3
2	Enhancing spatial resolution of BOTDR sensors using image deconvolution. Optics Express, 2022, 30, 19652.	3.4	8
3	Co‐developmental trajectories of parental involvement: Relations to academic achievement and externalizing and internalizing problems among Chinese elementary schoolchildren. British Journal of Educational Psychology, 2022, 92, 1422-1443.	2.9	3
4	Single shot OCC-BOTDA based on polarization diversity and image denoising. Optics and Lasers in Engineering, 2021, 137, 106368.	3.8	3
5	Functionalization of melamine foam surface and its non-halogen flame-retardant silicone materials. New Journal of Chemistry, 2021, 45, 11705-11711.	2.8	5
6	Distributed Optical Fiber Sensor for Dynamic Measurement. Journal of Lightwave Technology, 2021, 39, 3801-3811.	4.6	12
7	Accelerated Fast BOTDA Assisted by Compressed Sensing and Image Denoising. IEEE Sensors Journal, 2021, 21, 25723-25729.	4.7	9
8	Enhanced sensitivity of optical fiber vibration sensor based on radio-frequency Michelson interferometer. Optics Letters, 2021, 46, 6079.	3.3	20
9	Robust and Fast Temperature Extraction for Brillouin Optical Time-Domain Analyzer by Using Denoising Autoencoder-Based Deep Neural Networks. IEEE Sensors Journal, 2020, 20, 3614-3620.	4.7	19
10	Enhancing SNR by Anisotropic Diffusion for Brillouin Distributed Optical Fiber Sensors. Journal of Lightwave Technology, 2020, 38, 5844-5852.	4.6	10
11	Vector optical-chirp-chain Brillouin optical time-domain analyzer based on complex principal component analysis. Optics Express, 2020, 28, 28831.	3.4	8
12	Deep neural networks assisted BOTDA for simultaneous temperature and strain measurement with enhanced accuracy. Optics Express, 2019, 27, 2530.	3.4	50
13	Back propagation neutral network based signal acquisition for Brillouin distributed optical fiber sensors. Optics Express, 2019, 27, 4549.	3.4	39
14	Design of a dual-channel modelocked fiber laser that avoids multi-pulsing. Optics Express, 2019, 27, 14173.	3.4	10
15	Discrete Fourier domain mode locked laser with a microring resonator. , 2019, , .		0
16	Fast information acquisition using spectra subtraction for Brillouin distributed fiber sensors. Optics Express, 2019, 27, 9696.	3.4	9
17	Enhanced Coherent BOTDA System Without Trace Averaging. Journal of Lightwave Technology, 2018, 36, 871-878.	4.6	26
18	Averaging-free vector Brillouin optical time domain analyzer assisted by reference probe lightwave. Optics Express, 2018, 26, 33993.	3.4	4

#	Article	IF	Citations
19	Denoising and Robust Temperature Extraction for BOTDA Systems based on Denoising Autoencoder and DNN. , 2018, , .		5
20	Distributed Vibration Sensor Based on Space-Division Multiplexed Reflectometer and Interferometer in Multicore Fiber. Journal of Lightwave Technology, 2018, 36, 5764-5772.	4.6	30
21	Brillouin optical time domain analyzer sensors assisted by advanced image denoising techniques. Optics Express, 2018, 26, 5126.	3.4	57
22	Robust in-fiber spatial interferometer using multicore fiber for vibration detection. Optics Express, 2018, 26, 29629.	3.4	20
23	Multicore fiber space-division multiplexed reflectometer and interferometer for distributed vibration sensing. , 2018, , .		0
24	Processing Differential Brillouin Gain Spectrum by Support Vector Machine in DPP-BOTDA. , 2018, , .		0
25	Averaging-free Vector BOTDA assisted by a Reference Probe Lightwave. , 2018, , .		0
26	Coherent BOTDA Using Phase- and Polarization-Diversity Heterodyne Detection and Embedded Digital Signal Processing. IEEE Sensors Journal, 2017, 17, 3728-3734.	4.7	7
27	Coherent-detection-assisted BOTDA system without averaging using single-sideband modulated local oscillator signal. , 2017, , .		0
28	Ultrafast Temperature Extraction Using Support Vector Machine Based Data Classifier for BOTDA Sensors. , 2017, , .		1
29	Extraction of temperature distribution using deep neural networks for BOTDA sensing system. , 2017, , .		5
30	BOTDA sensor utilizing digital optical frequency comb based phase spectrum measurement. , 2017, , .		1
31	Brillouin Optical Time-Domain Analyzer Assisted by Support Vector Machine for Ultrafast Temperature Extraction. Journal of Lightwave Technology, 2017, 35, 4159-4167.	4.6	60
32	BOTDA system using artificial neural network. , 2017, , .		2
33	Single-measurement digital optical frequency comb based phase-detection Brillouin optical time domain analyzer. Optics Express, 2017, 25, 9213.	3.4	41
34	Temperature extraction in Brillouin optical time-domain analysis sensors using principal component analysis based pattern recognition. Optics Express, 2017, 25, 16534.	3.4	36
35	Support vector machine assisted BOTDA utilizing combined Brillouin gain and phase information for enhanced sensing accuracy. Optics Express, 2017, 25, 31210.	3.4	30
36	Brillouin optical time domain analyzer enhanced by artificial/deep neural networks. , 2017, , .		3

#	Article	IF	Citations
37	Support Vector Machine for Temperature Extraction from Brillouin Phase Spectrum. , 2017, , .		0
38	Bi-Directional Brillouin Optical Time Domain Analyzer System for Long Range Distributed Sensing. Sensors, 2016, 16, 2156.	3.8	1
39	Signal processing using artificial neural network for BOTDA sensor system. Optics Express, 2016, 24, 6769.	3.4	124
40	Temperature sensing in BOTDA system by using artificial neural network. Electronics Letters, 2015, 51, 1578-1580.	1.0	31
41	Temperature profile extraction using artificial neural network in BOTDA sensor system. , 2015, , .		5
42	New Research on MEMS Acoustic Vector Sensors Used in Pipeline Ground Markers. Sensors, 2015, 15, 274-284.	3.8	16
43	Scanning-free BOTDA based on ultra-fine digital optical frequency comb. Optics Express, 2015, 23, 5277.	3.4	50
44	Distributed Sensing using Bi-Directional BOTDA System. , 2015, , .		1
45	Enhanced BOTDA Performance by Using Commercial Optical Coherent Receiver and Digital Signal Processor. , 2015, , .		0
46	Ultrahigh-Q microwave photonic filter with tunable Q value utilizing cascaded optical-electrical feedback loops. Optics Letters, 2013, 38, 4304.	3.3	15
47	1-cm-Spatial-Resolution Brillouin Optical Time-Domain Analysis Based on Bright Pulse Brillouin Gain and Complementary Code. IEEE Photonics Journal, 2012, 4, 2243-2248.	2.0	36