

# Yi-Xin Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1618138/publications.pdf>

Version: 2024-02-01

54  
papers

987  
citations

567247

15  
h-index

454934

30  
g-index

55  
all docs

55  
docs citations

55  
times ranked

617  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Development of an $\Phi$ -OTDR System for Quantitative Vibration Measurement. IEEE Photonics Technology Letters, 2015, 27, 1349-1352.	2.5	138
2	TMAO: how gut microbiota contributes to heart failure. Translational Research, 2021, 228, 109-125.	5.0	113
3	Improved $\hat{\Gamma}$ -OTDR Sensing System for High-Precision Dynamic Strain Measurement Based on Ultra-Weak Fiber Bragg Grating Array. Journal of Lightwave Technology, 2015, 33, 4775-4780.	4.6	99
4	Continuous Fading Suppression Method for $\hat{\Gamma}$ -OTDR Systems Using Optimum Tracking Over Multiple Probe Frequencies. Journal of Lightwave Technology, 2019, 37, 3602-3610.	4.6	55
5	Strain variation measurement with short-time Fourier transform-based Brillouin optical time-domain reflectometry sensing system. Electronics Letters, 2014, 50, 1624-1626.	1.0	52
6	Active Compensation Method for Light Source Frequency Drifting in $\Phi$ -OTDR Sensing System. IEEE Photonics Technology Letters, 2015, 27, 2523-2526.	2.5	46
7	$\Phi$ -OTDR Based On-Line Monitoring of Overhead Power Transmission Line. Journal of Lightwave Technology, 2021, 39, 5163-5169.	4.6	42
8	An Enhanced Distributed Acoustic Sensor Based on UWFBG and Self-Heterodyne Detection. Journal of Lightwave Technology, 2019, 37, 2700-2705.	4.6	29
9	Performance improvement for long-range BOTDR sensing system based on high extinction ratio modulator. Electronics Letters, 2014, 50, 1014-1016.	1.0	28
10	Development of fully-distributed fiber sensors based on Brillouin scattering. Photonic Sensors, 2011, 1, 54-61.	5.0	24
11	A Hybrid Single-End-Access BOTDA and COTDR Sensing System Using Heterodyne Detection. Journal of Lightwave Technology, 2013, 31, 1954-1959.	4.6	24
12	<i>In situ</i> photoacoustic imaging of cysteine to reveal the mechanism of limited GSH synthesis in pulmonary fibrosis. Chemical Communications, 2019, 55, 9685-9688.	4.1	21
13	Performance Enhancement Methods for the Distributed Acoustic Sensors Based on Frequency Division Multiplexing. Electronics (Switzerland), 2019, 8, 617.	3.1	20
14	Integrated Analysis of the Metabolome and Transcriptome on Anthocyanin Biosynthesis in Four Developmental Stages of <i>Cerasus humilis</i> Peel Coloration. International Journal of Molecular Sciences, 2021, 22, 11880.	4.1	17
15	A Broadband Distributed Vibration Sensing System Assisted by a Distributed Feedback Interferometer. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	16
16	Polarization dependence of phase-sensitive optical time-domain reflectometry and its suppression method based on orthogonal-state of polarization pulse pair. Optical Engineering, 2016, 55, 074109.	1.0	15
17	Using an Auxiliary Mach-Zehnder Interferometer to Compensate for the Influence of Laser-Frequency-Drift in $\hat{\Gamma}$ -OTDR. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	15
18	Portable true random number generator for personal encryption application based on smartphone camera. Electronics Letters, 2014, 50, 1841-1843.	1.0	13

#	ARTICLE	IF	CITATIONS
19	Enhanced $\hat{\Gamma}$ - OTDR system for quantitative strain measurement based on ultra-weak fiber Bragg grating array. <i>Optical Engineering</i> , 2016, 55, 054103.	1.0	13
20	Dynamic Measurement Based on the Linear Characteristic of Phase Change in $\Phi$ -OTDR. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1191-1194.	2.5	13
21	Bibliometric analysis of microbial sulfonamide degradation: Development, hotspots and trend directions. <i>Chemosphere</i> , 2022, 293, 133598.	8.2	13
22	Gaussian pulse gated InGaAs/InP avalanche photodiode for single photon detection. <i>Optics Letters</i> , 2013, 38, 606.	3.3	12
23	Freight train gauge-exceeding detection based on three-dimensional stereo vision measurement. <i>Machine Vision and Applications</i> , 2013, 24, 461-475.	2.7	11
24	Compensation of optical path difference in heterodyne $\hat{\Gamma}$ -OTDR systems and SNR enhancement by generating multiple beat signals. <i>Optics Express</i> , 2019, 27, 27488.	3.4	11
25	Performance Optimization for Phase-Sensitive OTDR Sensing System Based on Multi-Spatial Resolution Analysis. <i>Sensors</i> , 2019, 19, 83.	3.8	10
26	A Method Based on Time-Scale Factor for Correcting the Nonlinear Frequency Sweeping in an OFDR System. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	10
27	Bioconversion of lignite humic acid by white-rot fungi and characterization of products. <i>3 Biotech</i> , 2018, 8, 258.	2.2	9
28	A Space-Division Multiplexing Method for Fading Noise Suppression in the $\hat{\Gamma}$ -OTDR System. <i>Sensors</i> , 2021, 21, 1694.	3.8	9
29	Performance enhancement method for phase-sensitive optical time-domain reflectometer system based on suppression of fading induced false alarms. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	9
30	Hybrid B-OTDR/ $\hat{\Gamma}$ -OTDR for multi-parameter measurement from a single end of fiber. <i>Optics Express</i> , 2022, 30, 29117.	3.4	9
31	Improved $\hat{\Gamma}$ -OTDR system with narrow pulses for quantitative strain measurement based on ultra-weak fiber bragg grating array. <i>Microwave and Optical Technology Letters</i> , 2016, 58, 2892-2894.	1.4	8
32	A distributed optical fiber sensing system for synchronous vibration and loss measurement. <i>Optoelectronics Letters</i> , 2016, 12, 375-378.	0.8	7
33	Identification of novel non-toxic and anti-angiogenic $\hat{\Gamma}$ -fluorinated chalcones as potent colchicine binding site inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 339-354.	5.2	7
34	Enhancing the Effect of Nonlinear Frequency Sweep Correction in OFDR With Improved Reference Frequency. <i>Journal of Lightwave Technology</i> , 2022, 40, 269-276.	4.6	6
35	Submarine cable monitoring system based on enhanced COTDR with simultaneous loss measurement and vibration monitoring ability. <i>Optics Express</i> , 2021, 29, 13115.	3.4	5
36	Aldosterone dysregulation predicts the risk of mortality and rehospitalization in heart failure with a preserved ejection fraction. <i>Science China Life Sciences</i> , 2021, , 1.	4.9	5

#	ARTICLE	IF	CITATIONS
37	Enlarging Dynamic Strain Range in UWFBG Array-Based $\hat{\lambda}$ -OTDR Assisted With Polarization Signal. IEEE Photonics Technology Letters, 2021, 33, 994-997.	2.5	5
38	Time-of-Flight Imaging in Fog Using Polarization Phasor Imaging. Sensors, 2022, 22, 3159.	3.8	5
39	Quality inspection guided laser processing of irregular shape objects by stereo vision measurement: application in badminton shuttle manufacturing. Optical Engineering, 2015, 54, 113101.	1.0	4
40	Enhanced $\hat{\lambda}$ -optical time domain reflectometry using gigahertz sinusoidally gated InGaAs/InP single-photon avalanche detector. Optical Engineering, 2016, 55, 094101.	1.0	4
41	Feature Based Modulation Classification for Overlapped Signals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1123-1126.	0.3	4
42	A Fading Tolerant Phase-Sensitive Optical Time Domain Reflectometry Based on Phasing-Locking Structure. Electronics (Switzerland), 2021, 10, 535.	3.1	4
43	Self-Optimized Vibration Localization Based on Distributed Acoustic Sensing and Existing Underground Optical Cables. Journal of Lightwave Technology, 2022, 40, 844-854.	4.6	4
44	The Research on Information Representation of $\hat{\lambda}$ -OTDR Distributed Vibration Signals. Journal of Sensors, 2017, 2017, 1-12.	1.1	3
45	Performance optimization for a phase-sensitive optical time-domain reflectometry based on multiscale matched filtering. Optical Engineering, 2019, 58, 1.	1.0	3
46	Performance Enhancement of the Location and Recognition of a $\hat{\lambda}$ -OTDR System Using CEEMDAN-KL and AMNBP. Applied Sciences (Switzerland), 2020, 10, 3047.	2.5	3
47	Design of fast pulse coding/decoding system for BOTDR. , 2012, , .		2
48	Balanced Single Photon Avalanche Detector with Variodeâ€Based Spike Noise Cancellation. Microwave and Optical Technology Letters, 2013, 55, 2877-2879.	1.4	2
49	A new designed FBG and &#x03A6;-OTDR hybrid system for vibration and temperature sensing. , 2015, , .		2
50	Highly efficient white organic light-emitting devices with optimized electron transporting layers. Chemical Research in Chinese Universities, 2017, 33, 227-230.	2.6	2
51	A highâ€sensitivity refractometer based on etched thinâ€core fiber modal interferometer. Microwave and Optical Technology Letters, 2017, 59, 53-56.	1.4	2
52	A botnets control strategy based on variable forgetting rate of control commands. Concurrency Computation Practice and Experience, 2022, 34, e6118.	2.2	1
53	Effects of Different Energy Substrates and Nickel and Cadmium Ions on the Growth of Acidithiobacillus ferrooxidans and Its Application for Disposal of Ni-Cd Batteries. Applied Biochemistry and Biotechnology, 2020, 191, 387-396.	2.9	1
54	Polarization-relevance noise compensation for an $\hat{\lambda}$ -OTDR based optical communication network maintenance system. , 2016, , .		0