

# Tianying Chang

## List of Publications by Year in descending order

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40  
papers

525  
citations

686830

13  
h-index

713013

21  
g-index

40  
all docs

40  
docs citations

40  
times ranked

407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Field 3-D Millimeter-Wave Imaging Using MIMO RMA With Range Compensation. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1157-1166.	2.9	64
2	Accurate determination of dielectric permittivity of polymers from 75â€‰GHz to 16â€‰THz using both S-parameters and transmission spectroscopy. Applied Optics, 2017, 56, 3287.	0.9	44
3	Review of Active Millimeter Wave Imaging Techniques for Personnel Security Screening. IEEE Access, 2019, 7, 148336-148350.	2.6	41
4	A Fiber-Optic Interferometric Tri-Component Geophone for Ocean Floor Seismic Monitoring. Sensors, 2017, 17, 47.	2.1	29
5	Ultra-Low-Frequency Tri-Component Fiber Optic Interferometric Accelerometer. IEEE Sensors Journal, 2018, 18, 8367-8374.	2.4	25
6	Low-frequency fiber optic hydrophone based on weak value amplification. Optics Express, 2020, 28, 25935.	1.7	24
7	Accurate Determination of Geographical Origin of Tea Based on Terahertz Spectroscopy. Applied Sciences (Switzerland), 2017, 7, 172.	1.3	22
8	Fiber optic interferometric seismometer with phase feedback control. Optics Express, 2020, 28, 6102.	1.7	21
9	Millimeter-Wave Imaging With Accelerated Super-Resolution Range Migration Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4610-4621.	2.9	20
10	Phase Compensation Scheme for Fiber-Optic Interferometric Vibration Demodulation. IEEE Sensors Journal, 2017, 17, 7448-7454.	2.4	19
11	A High Precision Terahertz Wave Image Reconstruction Algorithm. Sensors, 2016, 16, 1139.	2.1	15
12	Fiber optic multipoint remote methane sensing system based on pseudo differential detection. Optics and Lasers in Engineering, 2019, 114, 50-59.	2.0	13
13	Terahertz Dielectric Spectroscopy Based Thermal Aging Analysis of Polypropylene. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 363-369.	2.0	13
14	Method for Determining the Resonance Frequency of a Fiber Optic Interferometric Accelerometer. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 698-705.	2.4	12
15	Nondestructive Thickness Inspection of Capsule Coating by Terahertz Time-Domain Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 688-695.	2.0	12
16	Seismic Observation and Analysis Based on Three-Component Fiber Optic Seismometer. IEEE Access, 2020, 8, 1374-1382.	2.6	12
17	Three-dimensional bistatic array imaging using range migration algorithm. Electronics Letters, 2017, 53, 193-194.	0.5	11
18	Millimeter-Wave Image Reconstruction Algorithm for One-Stationary Bistatic SAR. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1185-1194.	2.9	11

#	ARTICLE	IF	CITATIONS
19	Thermal aging analysis of carbon black and silica filled natural rubber based on terahertz dielectric spectroscopy. <i>Infrared Physics and Technology</i> , 2020, 105, 103195.	1.3	11
20	High-Performance Fiber Optic Interferometric Hydrophone Based on Push-Pull Structure. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	2.4	11
21	Terahertz Dielectric Spectroscopic Analysis of Polypropylene Aging Caused by Exposure to Ultraviolet Radiation. <i>Polymers</i> , 2019, 11, 2001.	2.0	9
22	Void and crack detection of polymethacrylimide foams based on terahertz time-domain spectroscopic imaging. <i>Journal of Sandwich Structures and Materials</i> , 2017, 19, 348-363.	2.0	8
23	Evolution of terahertz dielectric permittivity of rubber during thermo-oxidative aging. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 127-134.	0.9	8
24	Pragmatic Approach to Phase Self-Calibration for Planar Array Millimeter-Wave MIMO Imaging. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	2.4	8
25	Short-Range Millimeter-Wave Imaging in the Presence of Array Element Position Deviation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 1910-1919.	2.9	8
26	Phase Measurement of Optical Fiber via Weak-Value Amplification. <i>IEEE Sensors Journal</i> , 2019, 19, 6742-6747.	2.4	7
27	A Case Study on Fiber Optic Interferometric Seafloor Seismic and Tsunami Monitoring System in South China Sea. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	2.4	6
28	Dimension-Factorized Range Migration Algorithm for Regularly Distributed Array Imaging. <i>Sensors</i> , 2017, 17, 2549.	2.1	5
29	Performance Optimization of Fiber Optic Interferometric Accelerometer Based on Phase Noise Analysis. <i>IEEE Sensors Journal</i> , 2019, 19, 10498-10505.	2.4	5
30	Shallow seafloor seismic wave monitoring using 3-component fiber optic interferometric accelerometer. <i>Measurement Science and Technology</i> , 2022, 33, 015101.	1.4	5
31	Phase-Based Range-Enhanced Millimeter-Wave Imaging Technique for Multistatic Planar Array. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 1882-1895.	2.9	5
32	Bending loss and propagation characterization of hollow pipe polymer terahertz waveguides. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 2862-2869.	0.9	3
33	W-band Aperture-Type Scanning Near-Field Microscopy Using Tapered Plastic Probe. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019, 40, 801-810.	1.2	3
34	Novel configuration of aperture-type terahertz near-field imaging probe. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 295102.	1.3	3
35	Adaptive Background Clutter Mitigation for Millimeter Wave MIMO Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	2.7	3
36	Aperture-type terahertz near-field imaging with a cylindrical frustum-shaped plastic probe. <i>Applied Optics</i> , 2021, 60, 6308.	0.9	3

#	ARTICLE	IF	CITATIONS
37	High Sensitivity Optical Fiber Interferometric Accelerometer for Seismic Observation. , 2018, , .		3
38	Terahertz low-loss hollow-core pipe waveguides. Optical Engineering, 2015, 54, 085106.	0.5	1
39	Methane Optical Sensing System With Polarization Rotation Gas Cell. IEEE Sensors Journal, 2019, 19, 7415-7424.	2.4	1
40	Remote Methane Sensor Using Optical Polarization Rotation Gas Cell. , 2018, , .		1