

# Menglong Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

501  
citations

933447

10  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

347  
citing authors

#	ARTICLE	IF	CITATIONS
1	A quantitative multidamage monitoring method for large-scale complex composite. <i>Structural Health Monitoring</i> , 2013, 12, 183-196.	7.5	102
2	Contact acoustic nonlinearity (CAN)-based continuous monitoring of bolt loosening: Hybrid use of high-order harmonics and spectral sidebands. <i>Mechanical Systems and Signal Processing</i> , 2018, 103, 280-294.	8.0	88
3	Analytical insight into "breathing" crack-induced acoustic nonlinearity with an application to quantitative evaluation of contact cracks. <i>Ultrasonics</i> , 2018, 88, 157-167.	3.9	61
4	Ultrasonic detection and characterization of delamination and rich resin in thick composites with waviness. <i>Composites Science and Technology</i> , 2020, 189, 108016.	7.8	43
5	Applications of a nanocomposite-inspired in-situ broadband ultrasonic sensor to acousto-ultrasonics-based passive and active structural health monitoring. <i>Ultrasonics</i> , 2017, 78, 166-174.	3.9	28
6	In situ disbond detection in adhesive bonded multi-layer metallic joint using time-of-flight variation of guided wave. <i>Ultrasonics</i> , 2020, 102, 106062.	3.9	23
7	Detection and sizing of disbond in multilayer bonded structure using modally selective guided wave. <i>Structural Health Monitoring</i> , 2021, 20, 904-916.	7.5	22
8	Visualized characterization of diversified defects in thick aerospace composites using ultrasonic B-scan. <i>Composites Communications</i> , 2020, 22, 100435.	6.3	20
9	Characterizing Hypervelocity Impact (HVI)-Induced Pitting Damage Using Active Guided Ultrasonic Waves: From Linear to Nonlinear. <i>Materials</i> , 2017, 10, 547.	2.9	18
10	Baseline-free defect evaluation of complex-microstructure composites using frequency-dependent ultrasound reflections. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 139, 106090.	7.6	17
11	Modeling Hypervelocity-Impact-Induced Shock Waves for Characterizing Orbital Debris-Produced Damage. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	10
12	Hypervelocity impact induced shock acoustic emission waves for quantitative damage evaluation using in situ miniaturized piezoelectric sensor network. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 1059-1070.	5.3	10
13	Floquet wave theory-based time-corrected ultrasonic total focusing method for fiber-reinforced composite laminate. <i>Ultrasonics</i> , 2021, 116, 106467.	3.9	10
14	Nonlinear ultrasonic evaluation of disorderedly clustered pitting damage using an <i>in situ</i> sensor network. <i>Structural Health Monitoring</i> , 2020, 19, 1989-2006.	7.5	9
15	Mode-mismatching enhanced disbond detection using material nonlinearity in guided waves at low frequency. <i>Journal of Sound and Vibration</i> , 2021, 490, 115733.	3.9	8
16	Defect identification in thick porous and wavy composites with hybrid use of ultrasound non-reciprocity and scattering. <i>Composites Science and Technology</i> , 2022, 225, 109514.	7.8	8
17	Measurement of Elastic Constant Matrix of Carbon Fiber Composites With an Ultrasonic 2D-Array Transducer. <i>IEEE Sensors Journal</i> , 2022, 22, 5562-5570.	4.7	7
18	Through transmission ultrasonic inspection of fiber waviness for thickness-tapered composites using ultrasound non-reciprocity: Simulation and experiment. <i>Ultrasonics</i> , 2022, 123, 106716.	3.9	6

#	ARTICLE	IF	CITATIONS
19	Mobile Multi-Agent Evaluation Method for Wireless Sensor Networks-Based Large-Scale Structural Health Monitoring. <i>International Journal of Distributed Sensor Networks</i> , 2012, 8, 164527.	2.2	5
20	Piezoelectricity in Structural Adhesives and Application for Monitoring Joint Integrity via Guided Ultrasonic Waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 777-783.	3.0	3
21	Coupled effects of surface interaction and damping on electromechanical stability of functionally graded nanotubes reinforced torsional micromirror actuator. <i>Journal of Strain Analysis for Engineering Design</i> , 2022, 57, 360-376.	1.8	3
22	A Benchmark Study of Modeling Lamb Wave Scattering by a Through Hole Using a Time-Domain Spectral Element Method. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2018, 1, 021006-021006-8.	0.9	0