

Ye Lu

List of Publications by Year in descending order

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73
papers

3,531
citations

172207

29
h-index

138251

58
g-index

77
all docs

77
docs citations

77
times ranked

2119
citing authors

#	ARTICLE	IF	CITATIONS
1	Guided Lamb waves for identification of damage in composite structures: A review. <i>Journal of Sound and Vibration</i> , 2006, 295, 753-780.	2.1	1,218
2	Quantitative assessment of through-thickness crack size based on Lamb wave scattering in aluminium plates. <i>NDT and E International</i> , 2008, 41, 59-68.	1.7	141
3	Functionalized composite structures for new generation airframes: a review. <i>Composites Science and Technology</i> , 2005, 65, 1436-1446.	3.8	137
4	Concrete crack detection with handwriting script interferences using faster region-based convolutional neural network. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 373-388.	6.3	131
5	Probabilistic Damage Identification Based on Correlation Analysis Using Guided Wave Signals in Aluminum Plates. <i>Structural Health Monitoring</i> , 2010, 9, 133-144.	4.3	111
6	Crack identification in aluminium plates using Lamb wave signals of a PZT sensor network. <i>Smart Materials and Structures</i> , 2006, 15, 839-849.	1.8	100
7	Probability of the presence of damage estimated from an active sensor network in a composite panel of multiple stiffeners. <i>Composites Science and Technology</i> , 2009, 69, 2054-2063.	3.8	94
8	Locating fatigue damage using temporal signal features of nonlinear Lamb waves. <i>Mechanical Systems and Signal Processing</i> , 2015, 60-61, 182-197.	4.4	93
9	Assessment of debonding in sandwich CF/EP composite beams using A0 Lamb wave at low frequency. <i>Composite Structures</i> , 2011, 93, 483-491.	3.1	81
10	Guided waves for damage identification in pipeline structures: A review. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2007.	1.9	72
11	Guided waves for damage detection in rebar-reinforced concrete beams. <i>Construction and Building Materials</i> , 2013, 47, 370-378.	3.2	70
12	Artificial Neural Network (ANN)-based Crack Identification in Aluminum Plates with Lamb Wave Signals. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 39-49.	1.4	64
13	Damage detection in rebar-reinforced concrete beams based on time reversal of guided waves. <i>Structural Health Monitoring</i> , 2014, 13, 347-358.	4.3	61
14	Fatigue crack detection in pipes with multiple mode nonlinear guided waves. <i>Structural Health Monitoring</i> , 2019, 18, 180-192.	4.3	58
15	Imaging-based crack detection on concrete surfaces using You Only Look Once network. <i>Structural Health Monitoring</i> , 2021, 20, 484-499.	4.3	57
16	Nonlinear Lamb waves for fatigue damage identification in FRP-reinforced steel plates. <i>Ultrasonics</i> , 2017, 80, 87-95.	2.1	53
17	Debonding Detection in Composite Sandwich Structures Based on Guided Waves. <i>AIAA Journal</i> , 2012, 50, 1697-1706.	1.5	52
18	Quantitative evaluation of crack orientation in aluminium plates based on Lamb waves. <i>Smart Materials and Structures</i> , 2007, 16, 1907-1914.	1.8	50

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19	A Probabilistic Diagnostic Algorithm for Identification of Multiple Notches Using Digital Damage Fingerprints (DDFs). <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 1439-1450.	1.4	49
20	A damage diagnostic imaging algorithm based on the quantitative comparison of Lamb wave signals. <i>Smart Materials and Structures</i> , 2010, 19, 065008.	1.8	49
21	Bolted Sleeve Joints for Connecting Pultruded FRP Tubular Components. <i>Journal of Composites for Construction</i> , 2016, 20, .	1.7	45
22	Guided waves for debonding identification in CFRP-reinforced concrete beams. <i>Construction and Building Materials</i> , 2017, 131, 388-399.	3.2	42
23	Identification of dual notches based on time-reversal lamb waves and a damage diagnostic imaging algorithm. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1983-1992.	1.4	39
24	Dispersion analysis of Lamb waves and damage detection for aluminum structures using ridge in the time-scale domain. <i>Measurement Science and Technology</i> , 2009, 20, 095704.	1.4	38
25	Nonlinear aspects of "breathing" crack-disturbed plate waves: 3-D analytical modeling with experimental validation. <i>International Journal of Mechanical Sciences</i> , 2019, 159, 140-150.	3.6	38
26	Numerical simulation and fatigue life estimation of BGA packages under random vibration loading. <i>Microelectronics Reliability</i> , 2015, 55, 2777-2785.	0.9	36
27	Identification of incipient pitting corrosion in reinforced concrete structures using guided waves and piezoelectric wafer transducers. <i>Structural Health Monitoring</i> , 2019, 18, 164-171.	4.3	32
28	Sensor Networks for Structures Health Monitoring: Placement, Implementations, and Challenges" A Review. <i>Vibration</i> , 2021, 4, 551-584.	0.9	30
29	Time-domain Analyses and Correlations of Lamb Wave Signals for Damage Detection in a Composite Panel of Multiple Stiffeners. <i>Journal of Composite Materials</i> , 2009, 43, 3211-3230.	1.2	29
30	Debonding detection in CFRP-reinforced steel structures using anti-symmetrical guided waves. <i>Composite Structures</i> , 2020, 253, 112813.	3.1	29
31	A quantitative identification approach for delamination in laminated composite beams using digital damage fingerprints (DDFs). <i>Composite Structures</i> , 2006, 75, 559-570.	3.1	28
32	Detection and assessment of pitting corrosion in rebars using scattering of ultrasonic guided waves. <i>NDT and E International</i> , 2019, 101, 53-61.	1.7	28
33	Mechanical and Electrical Characterisation of Steel Fiber and Carbon Black Engineered Cementitious Composites. <i>Procedia Engineering</i> , 2017, 188, 325-332.	1.2	25
34	Artificial Neural Network (ANN)-based Crack Identification in Aluminum Plates with Lamb Wave Signals. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 39-49.	1.4	21
35	Monitoring of delamination onset and growth during Mode I and Mode II interlaminar fracture tests using guided waves. <i>Composites Science and Technology</i> , 2012, 72, 145-151.	3.8	21
36	Nonlinear Lamb wave based DORT method for detection of fatigue cracks. <i>NDT and E International</i> , 2017, 92, 22-29.	1.7	21

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37	Identification of fatigue crack under vibration by nonlinear guided waves. <i>Mechanical Systems and Signal Processing</i> , 2022, 163, 108138.	4.4	21
38	Sensitivity of longitudinal guided wave modes to pitting corrosion of rebars embedded in reinforced concrete. <i>Construction and Building Materials</i> , 2020, 239, 117855.	3.2	17
39	Nonlinear guided waves for fatigue crack evaluation in steel joints with digital image correlation validation. <i>Smart Materials and Structures</i> , 2020, 29, 035031.	1.8	17
40	Damage Identification in Thick Steel Beam Based on Guided Ultrasonic Waves. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 225-232.	1.4	16
41	Conjunctive and compromised data fusion schemes for identification of multiple notches in an aluminium plate using lamb wave signals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 2005-2016.	1.7	16
42	Damage detection of fatigue cracks under nonlinear boundary condition using subharmonic resonance. <i>Ultrasonics</i> , 2017, 77, 152-159.	2.1	16
43	Removal of temperature effect in impedance-based damage detection using the cointegration method. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2189-2197.	1.4	16
44	A coupled, non-isothermal gas shale flow model: Application to evaluation of gas-in-place in shale with core samples. <i>Journal of Petroleum Science and Engineering</i> , 2017, 158, 361-379.	2.1	15
45	3D reconstruction of concrete defects using optical laser triangulation and modified spacetime analysis. <i>Automation in Construction</i> , 2022, 142, 104469.	4.8	14
46	Advanced numerical simulations considering crack orientation for fatigue damage quantification using nonlinear guided waves. <i>Ultrasonics</i> , 2022, 124, 106738.	2.1	13
47	A New Method for the Estimation of Lost Gas During the Measurement of the Gas Content of Coal. <i>SPE Reservoir Evaluation and Engineering</i> , 2017, 20, 627-638.	1.1	11
48	Detection of crack development in steel fibre engineered cementitious composite using electrical resistivity tomography. <i>Smart Materials and Structures</i> , 2019, 28, 125011.	1.8	11
49	Epoxy Enhanced by Recycled Milled Carbon Fibres in Adhesively-Bonded CFRP for Structural Strengthening. <i>Polymers</i> , 2014, 6, 76-92.	2.0	10
50	Structural condition assessment using entropy-based time series analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1941-1956.	1.4	9
51	Development of elasto-magnetic (EM) sensor for monitoring cable tension using an innovative ratio measurement method. <i>Smart Materials and Structures</i> , 2018, 27, 115003.	1.8	9
52	Damage detection in composite structures with high-damping materials using time reversal method. <i>Nondestructive Testing and Evaluation</i> , 2018, 33, 329-345.	1.1	8
53	Identification of Zero Effect State in Corroded RCC Structures Using Guided Waves and Embedded Piezoelectric Wafer Transducers (PWT). <i>Procedia Engineering</i> , 2017, 188, 209-216.	1.2	8
54	Passive detection and localization of fatigue cracking in aluminum plates using Greenâ€™s function reconstruction from ambient noise. <i>Ultrasonics</i> , 2017, 81, 187-195.	2.1	7

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55	Field test investigations for condition monitoring of a concrete culvert bridge using vibration responses. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2614.	1.9	7
56	Piezo-activated guided wave propagation and interaction with damage in tubular structures. <i>Smart Structures and Systems</i> , 2010, 6, 835-849.	1.9	7
57	An intelligent data fusion framework for structural health monitoring. , 2016, , .		6
58	Quantitative fatigue crack evaluation in pipeline structures using nonlinear cylindrical waves. <i>Smart Materials and Structures</i> , 2019, 28, 025015.	1.8	6
59	A simplified analytical model for the investigation of contact acoustic nonlinearity in pipe structures. <i>International Journal of Mechanical Sciences</i> , 2021, 197, 106328.	3.6	6
60	Sensor Networks for Structural Health Monitoring. <i>Journal of Sensors</i> , 2020, 2020, 1-2.	0.6	3
61	A split spectrum processing of noise-contaminated wave signals for damage identification. <i>Smart Structures and Systems</i> , 2012, 10, 253-269.	1.9	3
62	Instantaneous identification of tension in bridge cables using synchrosqueezing wave-packet transform of acceleration responses. <i>Structure and Infrastructure Engineering</i> , 2024, 20, 199-214.	2.0	3
63	Molecular Dynamics Simulations of Graphene Pull-Out from Calcium Silicate Hydrate. , 2015, , .		2
64	Monitoring of surface-fatigue crack propagation in a welded steel angle structure using guided waves and principal component analysis. , 2012, , .		1
65	Fatigue damage localization using time-domain features extracted from nonlinear Lamb waves. , 2014, , .		1
66	Co-Integration-Based Compensation Technique for Dynamic Load Effects on the Electro-mechanical Impedance Method. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2020, 142, .	1.0	1
67	Lamb Wave Based Damage Identification in Structures With Complex Geometry. , 2008, , .		0
68	Damage Detection in Thick Steel Beam Using Lamb Waves. , 2008, , .		0
69	Lamb Wave Based Monitoring of Fatigue Crack Growth Using Principal Component Analysis. <i>Key Engineering Materials</i> , 0, 558, 260-267.	0.4	0
70	A gradient-based algorithm for trend and outlier prediction in dynamic data streams. , 2017, , .		0
71	Mode Selectivity and Frequency Dependence of Guided Waves Generated by Piezoelectric Wafer Transducers in Rebars Embedded in Concrete. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 687-694.	0.3	0
72	Guided Wave Based Debonding Detection in CFRP-Reinforced Steel Structures. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 1013-1021.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Advances in corrosion monitoring of reinforced concrete using active and passive sensing approaches. , 2022, , 407-429.		0