List of Publications by Year in descending order

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<u>CHING-TALNO</u>

#	Article	IF	CITATIONS
1	A Lamb-wave-based technique for damage detection in composite laminates. Smart Materials and Structures, 2009, 18, 074006.	3.5	116
2	Second harmonic generation at fatigue cracks by low-frequency Lamb waves: Experimental and numerical studies. Mechanical Systems and Signal Processing, 2018, 99, 760-773.	8.0	112
3	Scattering of the fundamental anti-symmetric Lamb wave at delaminations in composite laminates. Journal of the Acoustical Society of America, 2011, 129, 1288-1296.	1.1	84
4	The selection of pattern features for structural damage detection using an extended Bayesian ANN algorithm. Engineering Structures, 2008, 30, 2762-2770.	5.3	82
5	Locating delaminations in laminated composite beams using nonlinear guided waves. Engineering Structures, 2017, 131, 207-219.	5.3	71
6	Analytical and finite element prediction of Lamb wave scattering at delaminations in quasi-isotropic composite laminates. Journal of Sound and Vibration, 2012, 331, 4870-4883.	3.9	70
7	Guided wave-based identification of multiple cracks in beams using a Bayesian approach. Mechanical Systems and Signal Processing, 2017, 84, 324-345.	8.0	68
8	Higher harmonic generation of guided waves at delaminations in laminated composite beams. Structural Health Monitoring, 2017, 16, 400-417.	7.5	65
9	An efficient finite element model for buckling analysis of grid stiffened laminated composite plates. Composite Structures, 2015, 122, 41-50.	5.8	59
10	On the selection of advanced signal processing techniques for guided wave damage identification using a statistical approach. Engineering Structures, 2014, 67, 50-60.	5.3	53
11	Time-domain spectral finite element method for analysis of torsional guided waves scattering and mode conversion by cracks in pipes. Mechanical Systems and Signal Processing, 2019, 128, 305-317.	8.0	51
12	Bayesian model updating approach for experimental identification of damage in beams using guided waves. Structural Health Monitoring, 2014, 13, 359-373.	7.5	46
13	Optimum design of phononic crystal perforated plate structures for widest bandgap of fundamental guided wave modes and maximized in-plane stiffness. Journal of the Mechanics and Physics of Solids, 2016, 89, 31-58.	4.8	46
14	Electrochemically produced graphene with ultra large particles enhances mechanical properties of Portland cement mortar. Construction and Building Materials, 2020, 234, 117403.	7.2	46
15	A probabilistic approach for quantitative identification of multiple delaminations in laminated composite beams using guided waves. Engineering Structures, 2016, 127, 602-614.	5.3	45
16	Effect of uniaxial stress on the propagation of higher-order Lamb wave modes. International Journal of Non-Linear Mechanics, 2016, 86, 104-111.	2.6	45
17	Nonlinear guided wave mixing in pipes for detection of material nonlinearity. Journal of Sound and Vibration, 2020, 485, 115541.	3.9	44
18	Implication of changing loading conditions on structural health monitoring utilising guided waves. Smart Materials and Structures, 2018, 27, 025003.	3.5	43

#	Article	IF	CITATIONS
19	Debonding detection in CFRP-retrofitted reinforced concrete structures using nonlinear Rayleigh wave. Mechanical Systems and Signal Processing, 2019, 125, 245-256.	8.0	43
20	Bolted joint integrity monitoring with second harmonic generated by guided waves. Structural Health Monitoring, 2019, 18, 193-204.	7.5	43
21	Modelling and analysis of nonlinear guided waves interaction at a breathing crack using time-domain spectral finite element method. Smart Materials and Structures, 2017, 26, 085002.	3.5	42
22	Rayleigh wave propagation and scattering characteristics at debondings in fibre-reinforced polymer-retrofitted concrete structures. Structural Health Monitoring, 2019, 18, 303-317.	7.5	42
23	Experimental characterization of multiple cracks in a cantilever beam utilizing transient vibration data following a probabilistic approach. Journal of Sound and Vibration, 2007, 305, 34-49.	3.9	39
24	A probabilistic method for the detection of obstructed cracks of beam-type structures using spatial wavelet transform. Probabilistic Engineering Mechanics, 2008, 23, 237-245.	2.7	38
25	A baselineâ€free and nonâ€contact method for detection and imaging of structural damage using 3D laser vibrometry. Structural Control and Health Monitoring, 2017, 24, e1894.	4.0	38
26	Guided wave damage characterisation in beams utilising probabilistic optimisation. Engineering Structures, 2009, 31, 2842-2850.	5.3	37
27	Influence of stacking sequence on scattering characteristics of the fundamental anti-symmetric Lamb wave at through holes in composite laminates. Journal of the Acoustical Society of America, 2011, 129, 1280-1287.	1.1	36
28	A modelâ€based method for damage detection with guided waves. Structural Control and Health Monitoring, 2017, 24, e1884.	4.0	32
29	Ambient- and oven-cured geopolymer concretes under active confinement. Construction and Building Materials, 2019, 228, 116722.	7.2	30
30	Sensor Networks for Structures Health Monitoring: Placement, Implementations, and Challenges—A Review. Vibration, 2021, 4, 551-584.	1.9	30
31	Scattering characteristics of Lamb waves from debondings at structural features in composite laminates. Journal of the Acoustical Society of America, 2012, 132, 115-123.	1.1	28
32	Application of Bayesian-designed artificial neural networks in Phase II structural health monitoring benchmark studies. Australian Journal of Structural Engineering, 2014, 15, .	1.1	27
33	Influence of crack opening and incident wave angle on second harmonic generation of Lamb waves. Smart Materials and Structures, 2018, 27, 055013.	3.5	27
34	Second-order harmonic generation of Lamb wave in prestressed plates. Journal of Sound and Vibration, 2019, 460, 114903.	3.9	27
35	A two-stage approach for quantitative damage imaging in metallic plates using Lamb waves. Earthquake and Structures, 2015, 8, 821-841.	1.0	27
36	Reconstruction of baseline time-trace under changing environmental and operational conditions. Smart Materials and Structures, 2016, 25, 035018.	3.5	26

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37	Debonding detection in rebar-reinforced concrete structures using second harmonic generation of longitudinal guided wave. NDT and E International, 2021, 122, 102496.	3.7	25
38	Scattering of the fundamental anti-symmetric Lamb wave at through-thickness notches in isotropic plates. Journal of Civil Structural Health Monitoring, 2016, 6, 447-459.	3.9	24
39	Enhancing the performance of stochastic subspace identification method via energy-oriented categorization of modal components. Engineering Structures, 2021, 233, 111917.	5.3	24
40	Mode Conversion and Scattering of Lamb Waves at Delaminations in Composite Laminates. Journal of Aerospace Engineering, 2019, 32, .	1.4	23
41	Influence of pristine graphene particle sizes on physicochemical, microstructural and mechanical properties of Portland cement mortars. Construction and Building Materials, 2020, 264, 120188.	7.2	23
42	Multicrack Detection on Semirigidly Connected Beams Utilizing Dynamic Data. Journal of Engineering Mechanics - ASCE, 2008, 134, 90-99.	2.9	22
43	Railway ballast damage detection by Markov chain Monte Carlo-based Bayesian method. Structural Health Monitoring, 2018, 17, 706-724.	7.5	22
44	Finite element prediction of acoustoelastic effect associated with Lamb wave propagation in pre-stressed plates. Smart Materials and Structures, 2019, 28, 095007.	3.5	22
45	CFRP-reinforced concrete-filled steel tubes with timber core under axial loading. Composite Structures, 2019, 217, 37-49.	5.8	22
46	On Accuracy of Analytical Modeling of Lamb Wave Scattering at Delaminations in Multilayered Isotropic Plates. International Journal of Structural Stability and Dynamics, 2015, 15, 1540010.	2.4	21
47	Generation of higher harmonics with the fundamental edge wave mode. Applied Physics Letters, 2020, 116, .	3.3	21
48	On the determination of the third-order elastic constants of homogeneous isotropic materials utilising Rayleigh waves. Ultrasonics, 2019, 96, 96-103.	3.9	19
49	Comparative evaluation of in situ stress monitoring with Rayleigh waves. Structural Health Monitoring, 2019, 18, 205-215.	7.5	18
50	Numerical analysis of shear transfer across an initially uncrack reinforced concrete member. Engineering Structures, 2015, 102, 296-309.	5.3	17
51	Higher harmonic generation of Rayleigh wave at debondings in FRP-retrofitted concrete structures. Smart Materials and Structures, 2018, 27, 105038.	3.5	17
52	Second Harmonic Generation of Guided Wave at Crack-Induced Debonding in FRP-Strengthened Metallic Plates. International Journal of Structural Stability and Dynamics, 2019, 19, 1940006.	2.4	16
53	The fundamental ultrasonic edge wave mode: Propagation characteristics and potential for distant damage detection. Ultrasonics, 2021, 114, 106369.	3.9	16
54	Quasistatic pulse generation of ultrasonic guided waves propagation in composites. Journal of Sound and Vibration, 2022, 524, 116764.	3.9	15

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55	Damage detection with the fundamental mode of edge waves. Structural Health Monitoring, 2021, 20, 74-83.	7.5	14
56	Assessment of damage in composites using static component generation of ultrasonic guided waves. Smart Materials and Structures, 2022, 31, 045025.	3.5	14
57	Reliability Analysis of Single-Degree-of-Freedom Elastoplastic Systems. I: Critical Excitations. Journal of Engineering Mechanics - ASCE, 2007, 133, 1072-1080.	2.9	12
58	Single-Plant Biocomposite from Ricinus Communis: Preparation, Properties and Environmental Performance. Journal of Polymers and the Environment, 2013, 21, 366-374.	5.0	12
59	Scattering characteristics of quasi-Scholte waves at blind holes in metallic plates with one side exposed to water. NDT and E International, 2021, 117, 102379.	3.7	12
60	Mode conversion and scattering analysis of guided waves at delaminations in laminated composite beams. Structural Monitoring and Maintenance, 2015, 2, 213-236.	1.7	12
61	Structural Responses of a Supertall Building Subjected to a Severe Typhoon at Landfall. Applied Sciences (Switzerland), 2020, 10, 2965.	2.5	11
62	Scattering analysis of nonlinear Lamb waves at delaminations in composite laminates. JVC/Journal of Vibration and Control, 2022, 28, 1311-1323.	2.6	11
63	Niching particle swarm optimization techniques for multimodal buckling maximization of composite laminates. Applied Soft Computing Journal, 2017, 57, 495-503.	7.2	10
64	Investigating the reinforcing mechanism and optimized dosage of pristine graphene for enhancing mechanical strengths of cementitious composites. RSC Advances, 2020, 10, 42777-42789.	3.6	10
65	Investigation of feeding behaviour in C. elegans reveals distinct pharmacological and antibacterial effects of nicotine. Invertebrate Neuroscience, 2018, 18, 14.	1.8	9
66	Double-skin concrete-timber-filled steel columns under compression. Engineering Structures, 2019, 200, 109537.	5.3	9
67	Time-Domain Spectral Finite Element Method for Modeling Second Harmonic Generation of Guided Waves Induced by Material, Geometric and Contact Nonlinearities in Beams. International Journal of Structural Stability and Dynamics, 2020, 20, 2042005.	2.4	9
68	Early damage detection of metallic plates with one side exposed to water using the second harmonic generation of ultrasonic guided waves. Thin-Walled Structures, 2022, 176, 109284.	5.3	9
69	Mode shape scaling and implications in modal identification with known input. Engineering Structures, 2018, 156, 411-416.	5.3	8
70	Large acoustoelastic effect for Lamb waves propagating in an incompressible elastic plate. Journal of the Acoustical Society of America, 2019, 145, 1221-1229.	1.1	8
71	Damage detection of ultra-high-performance fibre-reinforced concrete using a harmonic wave modulation technique. Construction and Building Materials, 2021, 313, 125306.	7.2	8
72	Integrated piezoceramic transducers for imaging damage in composite laminates. Proceedings of SPIE, 2009, , .	0.8	7

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73	Scattering analysis of fundamental anti-symmetric Lamb wave at delaminations in composite laminates. Australian Journal of Mechanical Engineering, 2011, 8, 197-205.	2.1	7
74	Plastic buckling and axial crushing of concrete-filled steel tubes: usage of multiple wood blocks. Thin-Walled Structures, 2020, 150, 106487.	5.3	7
75	Effect of randomly distributed voids on effective linear and nonlinear elastic properties of isotropic materials. International Journal of Solids and Structures, 2021, 216, 83-93.	2.7	7
76	Wave mixing with the fundamental mode of edge waves for evaluation of material nonlinearities. Journal of Sound and Vibration, 2022, 527, 116855.	3.9	7
77	Static component generation and measurement of nonlinear guided waves with group velocity mismatch. JASA Express Letters, 2021, 1, .	1.1	6
78	Probabilistic Damage Characterisation in Beams using Guided Waves. Procedia Engineering, 2011, 14, 490-497.	1.2	5
79	Effect of central and non-central frequency components on the quality of damage imaging. Journal of Civil Structural Health Monitoring, 2018, 8, 49-61.	3.9	5
80	Understanding the interaction of the fundamental Lamb-wave modes with material discontinuity: finite element analysis and experimental validation. Structural Health Monitoring, 2022, 21, 640-665.	7.5	5
81	Numerical and experimental investigations on mode conversion of guided waves in partially immersed plates. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110750.	5.0	5
82	Ultrasonic Guided Wave Field Modeling in a One-Side Water-Immersed Steel Plate. Lecture Notes in Civil Engineering, 2021, , 1131-1140.	0.4	4
83	Prediction and Measurement of Lamb Wave from Debondings at Structural Features in Composite Laminates. Key Engineering Materials, 2013, 558, 139-148.	0.4	3
84	Sensor Networks for Structural Health Monitoring. Journal of Sensors, 2020, 2020, 1-2.	1.1	3
85	Feasibility of early fatigue damage evaluation using the Neutron diffraction method. Engineering Failure Analysis, 2022, 141, 106603.	4.0	3
86	Special Issue on Structural Health Monitoring of Civil Structures. Structural Health Monitoring, 2014, 13, 345-346.	7.5	2
87	Mechanics and Evaluation of Early Damage. Structural Integrity, 2019, , 359-365.	1.4	2
88	Effective elastic properties of a weakly nonlinear particulate composite. International Journal of Non-Linear Mechanics, 2022, 141, 103949.	2.6	2
89	The performance optimization of combinational harmonic generation for quasi-synchronous Lamb wave mixing. , 2022, , .		1
90	Reliability Analysis of Single-Degree-of-Freedom Elastoplastic Systems. II: Suboptimal Excitations. Journal of Engineering Mechanics - ASCE, 2007, 133, 1081-1085.	2.9	0

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91	Closure to "Reliability Analysis of Single-Degree-of-Freedom Elastoplastic Systems. I: Critical Excitations―by Siu-Kui Au, Heung-Fai Lam, and Ching-Tai Ng. Journal of Engineering Mechanics - ASCE, 2008, 134, 924-925.	2.9	0
92	EXPERIMENTAL MEASUREMENT AND NUMERICAL SIMULATION OF FUNDAMENTAL ANTI-SYMMETRIC LAMB WAVE SCATTERING IN COMPOSITES. , 2011, , .		0
93	APPLICATION OF BAYESIAN APPROACH FOR DAMAGE CHARACTERIZATION IN BEAMS UTILIZING GUIDED WAVES. , 2011, , .		0
94	Measurement of Elastic Nonlinearities Using the Fundamental Edge Wave Mode. Structural Integrity, 2020, , 133-139.	1.4	0
95	Development of Micro-mechanical Models of Fatigue Damage. Structural Integrity, 2020, , 145-150.	1.4	0