

Weibin Li

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

542
citations

687363

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h-index

642732

23
g-index

30
all docs

30
docs citations

30
times ranked

303
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of thermal fatigue in composites by second harmonic Lamb waves. Smart Materials and Structures, 2012, 21, 085019.	3.5	147
2	Theoretical analysis and experimental observation of frequency mixing response of ultrasonic Lamb waves. Journal of Applied Physics, 2018, 124, .	2.5	33
3	Impact damage detection in composites using a guided wave mixing technique. Measurement Science and Technology, 2020, 31, 014001.	2.6	33
4	Modeling and simulation of backward combined harmonic generation induced by one-way mixing of longitudinal ultrasonic guided waves in a circular pipe. Ultrasonics, 2021, 113, 106356.	3.9	28
5	Characteristics of ultrasonic nonlinearity by thermal fatigue. International Journal of Precision Engineering and Manufacturing, 2012, 13, 935-940.	2.2	23
6	Characterization of Microstructural Evolution by Ultrasonic Nonlinear Parameters Adjusted by Attenuation Factor. Metals, 2019, 9, 271.	2.3	22
7	Quantification and imaging of corrosion wall thinning using shear horizontal guided waves generated by magnetostrictive sensors. Sensors and Actuators A: Physical, 2015, 232, 251-258.	4.1	21
8	Non-Destructive Evaluation of Coating Thickness Using Water Immersion Ultrasonic Testing. Coatings, 2021, 11, 1421.	2.6	20
9	Quantitative defect inspection in the curved composite structure using the modified probabilistic tomography algorithm and fusion of damage index. Ultrasonics, 2021, 113, 106358.	3.9	19
10	Monitoring of environmental loading effect on the steel with different plastic deformation by diffuse ultrasound. Structural Health Monitoring, 2019, 18, 602-609.	7.5	17
11	Monitoring of Fatigue Crack Propagation by Damage Index of Ultrasonic Guided Waves Calculated by Various Acoustic Features. Applied Sciences (Switzerland), 2019, 9, 4254.	2.5	16
12	Combination of Phase Matching and Phase-Reversal Approaches for Thermal Damage Assessment by Second Harmonic Lamb Waves. Materials, 2018, 11, 1961.	2.9	15
13	Quasistatic pulse generation of ultrasonic guided waves propagation in composites. Journal of Sound and Vibration, 2022, 524, 116764.	3.9	15
14	Characterization of Degradation Progressive in Composite Laminates Subjected to Thermal Fatigue and Moisture Diffusion by Lamb Waves. Sensors, 2016, 16, 260.	3.8	14
15	Quantitative imaging of surface cracks in polymer bonded explosives by surface wave tomographic approach. Polymer Testing, 2019, 74, 63-71.	4.8	14
16	Assessment of damage in composites using static component generation of ultrasonic guided waves. Smart Materials and Structures, 2022, 31, 045025.	3.5	14
17	Theoretical and numerical investigations of the nonlinear acoustic response of feature guided waves in a welded joint. Wave Motion, 2021, 101, 102696.	2.0	12
18	Experimental Investigation of the Acoustic Nonlinear Behavior in Granular Polymer Bonded Explosives with Progressive Fatigue Damage. Materials, 2017, 10, 660.	2.9	12

#	ARTICLE	IF	CITATIONS
19	Numerical and experimental investigations on second-order combined harmonic generation of Lamb wave mixing. AIP Advances, 2020, 10, .	1.3	11
20	Cumulative Second Harmonic Generation of Ultrasonic Guided Waves Propagation in Tube-Like Structure. Journal of Computational Acoustics, 2016, 24, 1650011.	1.0	10
21	Micro-defect imaging with an improved resolution using nonlinear ultrasonic Lamb waves. Journal of Applied Physics, 2022, 131, .	2.5	9
22	A feasibility study for Lamb wave mixing nonlinear technique. AIP Conference Proceedings, 2014, , .	0.4	6
23	Assessment of low-velocity impact damage in composites by the measure of second-harmonic guided waves with the phase-reversal approach. Science Progress, 2020, 103, 003685041988107.	1.9	6
24	Static component generation and measurement of nonlinear guided waves with group velocity mismatch. JASA Express Letters, 2021, 1, .	1.1	6
25	Detection and Location of Surface Damage Using Third-Order Combined Harmonic Waves Generated by Non-Collinear Ultrasonic Waves Mixing. Sensors, 2021, 21, 6027.	3.8	6
26	Identification and imaging of multi-defects on a complicated composite structure by ultrasonic guided wave. Polymer Testing, 2022, 106, 107466.	4.8	5
27	Second Harmonic Generation of Shear Horizontal Guided Wave Propagation in Plate-like structures. Physics Procedia, 2015, 70, 451-454.	1.2	4
28	Identification of multi-defects in an arched composite structure by the corrected probabilistic diagnostic imaging with the fused damage index. Journal of Intelligent Material Systems and Structures, 2022, 33, 799-810.	2.5	4
29	Imaging wall thinning defect by electromagnetic ultrasonic shear horizontal guided wave tomography. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 323-330.	0.6	0
30	A challenging and promising effort toward QNDE for inaccessible and invisible defects; nonlinear guided wave NDE. AIP Conference Proceedings, 2019, , .	0.4	0