

Younho Cho

List of Publications by Year in descending order

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68
papers

1,046
citations

471061

17
h-index

433756

31
g-index

68
all docs

68
docs citations

68
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of thermal fatigue in composites by second harmonic Lamb waves. Smart Materials and Structures, 2012, 21, 085019.	1.8	147
2	Estimation of ultrasonic guided wave mode conversion in a plate with thickness variation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 591-603.	1.7	122
3	An elastodynamic hybrid boundary element study for elastic guided wave interactions with a surface breaking defect. International Journal of Solids and Structures, 2000, 37, 4103-4124.	1.3	97
4	A study on quantitative lamb wave tomogram via modified RAPID algorithm with shape factor optimization. International Journal of Precision Engineering and Manufacturing, 2012, 13, 671-677.	1.1	61
5	A guided wave approach to defect detection under shelling in rail. NDT and E International, 2009, 42, 174-180.	1.7	51
6	Combination of nonlinear ultrasonics and guided wave tomography for imaging the micro-defects. Ultrasonics, 2016, 65, 87-95.	2.1	37
7	Validity of the reciprocity approach for determination of surface wave motion. Ultrasonics, 2013, 53, 665-671.	2.1	32
8	Application of the reciprocity theorem to scattering of surface waves by a cavity. International Journal of Solids and Structures, 2013, 50, 4080-4088.	1.3	30
9	Multi-defect tomographic imaging with a variable shape factor for the RAPID algorithm. Journal of Visualization, 2016, 19, 393-402.	1.1	26
10	Characteristics of ultrasonic nonlinearity by thermal fatigue. International Journal of Precision Engineering and Manufacturing, 2012, 13, 935-940.	1.1	23
11	Verification of surface wave solutions obtained by the reciprocity theorem. Ultrasonics, 2014, 54, 1891-1894.	2.1	22
12	Characterization of Microstructural Evolution by Ultrasonic Nonlinear Parameters Adjusted by Attenuation Factor. Metals, 2019, 9, 271.	1.0	22
13	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.	2.0	21
14	Non-Contact Guided Waves Tomographic Imaging of Plate-Like Structures Using a Probabilistic Algorithm. Materials Transactions, 2012, 53, 330-336.	0.4	20
15	Defects Inspection in Wires by Nonlinear Ultrasonic-Guided Wave Generated by Electromagnetic Sensors. Applied Sciences (Switzerland), 2020, 10, 4479.	1.3	20
16	Non-Destructive Evaluation of Coating Thickness Using Water Immersion Ultrasonic Testing. Coatings, 2021, 11, 1421.	1.2	20
17	Quantitative tomographic visualization for irregular shape defects by guided wave long range inspection. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1949-1954.	1.1	19
18	A novel ultrasonic NDE for shrink fit welded structures using interface waves. Ultrasonics, 2016, 68, 1-7.	2.1	19

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19	Elastic wave analysis for broken rail detection. AIP Conference Proceedings, 2002, , .	0.3	18
20	A theoretical approach to multiple scattering of surface waves by shallow cavities in a half-space. Ultrasonics, 2018, 88, 16-25.	2.1	17
21	Use of the reciprocity theorem for a closed form solution of scattering of the lowest axially symmetric torsional wave mode by a defect in a pipe. Ultrasonics, 2018, 84, 45-52.	2.1	17
22	A closed-form solution to propagation of guided waves in a layered half-space under a time-harmonic load: An application of elastodynamic reciprocity. Ultrasonics, 2019, 96, 40-47.	2.1	17
23	Nonlinear feature of phase matched Lamb waves in solid plate. Applied Acoustics, 2020, 160, 107124.	1.7	17
24	Characterization of Degradation Progressive in Composite Laminates Subjected to Thermal Fatigue and Moisture Diffusion by Lamb Waves. Sensors, 2016, 16, 260.	2.1	14
25	A theoretical approach for guided waves in layered structures. AIP Conference Proceedings, 2019, , .	0.3	14
26	Study on the scattering of 2-D Rayleigh waves by a cavity based on BEM simulation. Journal of Mechanical Science and Technology, 2011, 25, 797-802.	0.7	12
27	Model-Based Guided Wave NDE: The Evolution of Guided Wave NDE from "Magic" to "Physically Based Engineering Tool". Journal of Nondestructive Evaluation, 2012, 31, 324-338.	1.1	12
28	Ultrasonic Assessment of Thickness and Bonding Quality of Coating Layer Based on Short-Time Fourier Transform and Convolutional Neural Networks. Coatings, 2021, 11, 909.	1.2	11
29	Cumulative Second Harmonic Generation of Ultrasonic Guided Waves Propagation in Tube-Like Structure. Journal of Computational Acoustics, 2016, 24, 1650011.	1.0	10
30	A study on guided wave propagation in a long distance curved pipe. Journal of Mechanical Science and Technology, 2019, 33, 4111-4117.	0.7	9
31	Scattering of Surface Waves by a Three-Dimensional Cavity of Arbitrary Shape: Analytical and Experimental Studies. Applied Sciences (Switzerland), 2019, 9, 5459.	1.3	8
32	High-Precision Noncontact Guided Wave Tomographic Imaging of Plate Structures Using a DHB Algorithm. Applied Sciences (Switzerland), 2020, 10, 4360.	1.3	8
33	A Comparative Study on the Elastic Characteristics of an Aluminum Thin-Film Using Laser Optical Measurement Techniques. Coatings, 2017, 7, 143.	1.2	7
34	A feasibility study for Lamb wave mixing nonlinear technique. AIP Conference Proceedings, 2014, , .	0.3	6
35	An experimental study on second harmonic generation of guided wave in fatigued spring rod. Journal of Mechanical Science and Technology, 2019, 33, 4105-4109.	0.7	6
36	A study on guided wave tomographic imaging for defects on a curved structure. Journal of Visualization, 2019, 22, 1081-1092.	1.1	6

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37	Neural-Network-Based Ultrasonic Inspection of Offshore Coated Concrete Specimens. Coatings, 2022, 12, 773.	1.2	6
38	An Investigation on a Quantitative Tomographic SHM Technique for a Containment Liner Plate in a Nuclear Power Plant with Guided Wave Mode Selection. Sensors, 2019, 19, 2819.	2.1	5
39	Comparative Study of Linear and Nonlinear Ultrasonic Techniques for Evaluation Thermal Damage of Tube-Like Structures. Journal of the Korean Society for Nondestructive Testing, 2013, 33, 1-6.	0.2	5
40	Guided-Wave Tomographic Imaging of Plate Defects by Laser-Based Ultrasonic Techniques. Journal of the Korean Society for Nondestructive Testing, 2014, 34, 435-440.	0.2	5
41	Second Harmonic Generation of Shear Horizontal Guided Wave Propagation in Plate-like structures. Physics Procedia, 2015, 70, 451-454.	1.2	4
42	Lamb wave propagation on a unidirectional CFRP plate: comparison of FEM simulations, experiments, and analytical calculations. Journal of Mechanical Science and Technology, 2021, 35, 3863-3869.	0.7	4
43	A study on laser-based ultrasonic technique by the use of guided wave tomographic imaging. AIP Conference Proceedings, 2015, , .	0.3	3
44	Defect Imaging Enhancement through Optimized Shape Factors of the RAPID Algorithm Based on Guided Wave Beam Pattern Analysis. Sensors, 2021, 21, 4029.	2.1	3
45	A novel approach of using the elastodynamic reciprocity for guided wave problems. , 2013, , .		2
46	Aircraft component defect monitoring by the use of patch magnetostrictive EMAT. Journal of Visualization, 2017, 20, 847-858.	1.1	2
47	Evaluation of Interface Defects in Inaccessible Reactor Shrink Fit Nozzle Welds Using Ultrasonic Waves. Energies, 2017, 10, 589.	1.6	2
48	A nonlinear guided wave NDE and tomography for micro damage detection and imaging. , 2011, , .		1
49	Multiple scattering of surface waves by cavities in a half-space. , 2014, , .		1
50	Ultrasonic Guided Waves in Unidirectional Fiber-Reinforced Composite Plates. Lecture Notes in Mechanical Engineering, 2021, , 677-685.	0.3	1
51	Nonlinear Ultrasonic Guided Wave Method Using Semi-Analytical Finite Element (SAFE) Technique on a Damaged SWO-V Spring Coil. Metals, 2021, 11, 752.	1.0	1
52	Evaluation of Corrosion in Carbon Steel Pipes by Laser-Generated Guided Wave. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 87-94.	0.1	1
53	A Study on Scattered Wave Amplitude Closed-Form Solution Calculation of Torsional Wave Mode by Reciprocity Theorem. Transactions of the Korean Society of Mechanical Engineers, A, 2016, 40, 647-652.	0.1	1
54	Study of concrete de-bonding assessment technique for containment liner plates in nuclear power plants using ultrasonic guided wave approach. Nuclear Engineering and Technology, 2022, 54, 1221-1229.	1.1	1

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55	The Tribological and Lubrication Responses of a Cobalt-Chromium Femoral Head in Total Hip Arthroplasty. The Journal of the Korean Hip Society, 2010, 22, 227-233.	0.2	0
56	HYBRID NON-CONTACT GUIDED WAVE TOMOGRAPHY FOR IMAGING OF DEFECTS IN PLATE-LIKE STRUCTURE USING A PROBABILISTIC ALGORITHM. , 2010, , .		0
57	Evaluation of material microstructure changes in high speed tool steel by the non-collinear wave mixing technique with MST(magnetostrictive transducer). , 2015, , .		0
58	Imaging wall thinning defect by electromagnetic ultrasonic shear horizontal guided wave tomography. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 323-330.	0.3	0
59	Nonlinear Acoustics. , 2018, , 1-19.		0
60	A challenging and promising effort toward QNDE for inaccessible and invisible defects; nonlinear guided wave NDE. AIP Conference Proceedings, 2019, , .	0.3	0
61	Optimize ultrasound condition for water treatment by coiled-up space metamaterial. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
62	Theoretical Analysis of Scattering Amplitude Calculation of Torsional Wave on a Pipe. Lecture Notes in Mechanical Engineering, 2021, , 611-616.	0.3	0
63	A STUDY ON TIME DOMAIN COMPUTER SIMULATION OF ULTRASONIC GUIDED WAVE MODE CONVERSION. , 2008, , .		0
64	MATERIAL CHARACTERIZATION OF LOCK PLATE FOR GAS TURBINE PLANT. , 2008, , .		0
65	A STUDY OF GUIDED ULTRASONIC WAVE APPLICATION FOR HEAT EXCHANGER PERFORMANCE IMPROVEMENT. , 2008, , .		0
66	OS6-6 Assessment of Multi-damages with Thermal Fatigue and Moisture Diffusion in Composite Laminates by Nonlinear Lamb Waves(Acoustic Emission and Ultrasonic Testing of Plates (2),OS6) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 . International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015. 2015.14. 77.	0.0	0
67	OS6-8 The Material Microstructure and Property Evaluation by Ultrasonic Wave Feature(Ultrasonic) Tj ETQq1 1 0.784314 rgBT /Overlock Mechanics Asian Conference on Experimental Mechanics, 2015. 2015.14. 79.	0.0	0
68	Nonlinear Acoustics. , 2019, , 251-269.		0