

Hjjeong Jeong

List of Publications by Year in descending order

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52
papers

547
citations

687363

13
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713466

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52
all docs

52
docs citations

52
times ranked

279
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture source location in thin plates using the wavelet transform of dispersive waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 612-619.	3.0	99
2	A nondestructive method for estimation of the fracture toughness of CrMoV rotor steels based on ultrasonic nonlinearity. Ultrasonics, 2003, 41, 543-549.	3.9	39
3	Theoretical and experimental investigation of the pulse-echo nonlinearity acoustic sound fields of focused transducers. Applied Acoustics, 2017, 117, 145-149.	3.3	37
4	Receiver calibration and the nonlinearity parameter measurement of thick solid samples with diffraction and attenuation corrections. Ultrasonics, 2017, 81, 147-157.	3.9	28
5	Finite-Element Analysis of Laser-Generated Ultrasounds for Wave Propagation and Interaction with Surface-Breaking Cracks. Research in Nondestructive Evaluation, 2005, 16, 1-14.	1.1	21
6	Significance of accurate diffraction corrections for the second harmonic wave in determining the acoustic nonlinearity parameter. AIP Advances, 2015, 5, .	1.3	21
7	Defect detection and localization in plates using a lamb wave time reversal technique. International Journal of Precision Engineering and Manufacturing, 2011, 12, 427-434.	2.2	18
8	Modeling nonlinear Rayleigh wave fields generated by angle beam wedge transducers – A theoretical study. Wave Motion, 2016, 67, 141-159.	2.0	17
9	Measurement of Rayleigh Wave Beams Using Angle Beam Wedge Transducers as the Transmitter and Receiver with Consideration of Beam Spreading. Sensors, 2017, 17, 1449.	3.8	16
10	Finite element analysis of laser-generated ultrasound for characterizing surface-breaking cracks. Journal of Mechanical Science and Technology, 2005, 19, 1116-1122.	1.5	14
11	Acoustic nonlinearity parameter measurements in a pulse-echo setup with the stress-free reflection boundary. Journal of the Acoustical Society of America, 2018, 143, EL237-EL242.	1.1	14
12	Experimental investigation of material nonlinearity using the Rayleigh surface waves excited and detected by angle beam wedge transducers. Ultrasonics, 2018, 89, 118-125.	3.9	14
13	Evaluation of fracture toughness degradation of CrMoV rotor steels based on ultrasonic nonlinearity measurements. Journal of Mechanical Science and Technology, 2002, 16, 147-154.	0.4	13
14	Assessment of Acoustic Nonlinearity Parameters Using an Optimized Data-Fitting Method with Multi-Gaussian Beam Model-Based Diffraction Corrections. Research in Nondestructive Evaluation, 2016, 27, 230-250.	1.1	13
15	Calibration of focused ultrasonic transducers and absolute measurements of fluid nonlinearity with diffraction and attenuation corrections. Journal of the Acoustical Society of America, 2017, 142, 984-990.	1.1	13
16	Simultaneous evaluation of acoustic nonlinearity parameter and attenuation coefficients using the finite amplitude method. AIP Advances, 2015, 5, .	1.3	11
17	Characterization of Aging Treated 6061 Aluminum Alloy Using Nonlinear Rayleigh Wave. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	11
18	Optimization and Validation of Dual Element Ultrasound Transducers for Improved Pulse-Echo Measurements of Material Nonlinearity. IEEE Sensors Journal, 2020, 20, 13596-13606.	4.7	11

#	ARTICLE	IF	CITATIONS
19	Ultrasonic Transducer Fields Modeled with a Modular Multi-Gaussian Beam and Application to a Contact Angle Beam Testing. <i>Research in Nondestructive Evaluation</i> , 2008, 19, 87-103.	1.1	10
20	A novel method for extracting acoustic nonlinearity parameters with diffraction corrections. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 643-652.	1.5	10
21	Analytical Diffraction Corrections for Circular Focused Transducers Expressed Using the Multi-Gaussian Beam Model. <i>Acta Acustica United With Acustica</i> , 2017, 103, 717-720.	0.8	9
22	Development of explicit diffraction corrections for absolute measurements of acoustic nonlinearity parameters in the quasilinear regime. <i>Ultrasonics</i> , 2016, 70, 199-203.	3.9	8
23	Modeling linear Rayleigh wave sound fields generated by angle beam wedge transducers. <i>AIP Advances</i> , 2017, 7, .	1.3	8
24	Calibration of focused circular transducers using a multi-Gaussian beam model. <i>Applied Acoustics</i> , 2018, 133, 182-185.	3.3	8
25	A novel and practical approach for determination of the acoustic nonlinearity parameter using a pulse-echo method. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	7
26	Simultaneously Determining Sensitivity and Effective Geometrical Parameters of Ultrasonic Piezoelectric Transducers Using a Self-Reciprocity Method. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1649-1657.	3.0	7
27	Simulation of Ultrasonic Beam Propagation From Phased Arrays in Anisotropic Media Using Linearly Phased Multi-Gaussian Beams. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 106-116.	3.0	7
28	Application of Fresnel Zone Plate Focused Beam to Optimized Sensor Design for Pulse-Echo Harmonic Generation Measurements. <i>Sensors</i> , 2019, 19, 1373.	3.8	6
29	Dual Element Transducer Approach for Second Harmonic Generation and Material Nonlinearity Measurement of Solids in the Pulse-Echo Method. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	2.4	6
30	Simultaneous Measurements of Harmonic Waves at Fatigue-Cracked Interfaces. <i>Chinese Physics Letters</i> , 2011, 28, 084302.	3.3	5
31	A more general model equation of nonlinear Rayleigh waves and their quasilinear solutions. <i>Modern Physics Letters B</i> , 2016, 30, 1650096.	1.9	5
32	Characterizing Microstructural Evolution of TP304 Stainless Steel Using a Pulse-Echo Nonlinear Method. <i>Materials</i> , 2020, 13, 1395.	2.9	5
33	Prediction of Angle Beam Ultrasonic Testing Signals from a Surface Breaking Crack in a Plate Using Multi-Gaussian Beams and Ray Methods. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	4
34	Improvement of pulse-echo harmonic generation from a traction-free boundary through phase shift of a dual element transducer. <i>Ultrasonics</i> , 2018, 87, 145-151.	3.9	4
35	Development of attenuation and diffraction corrections for linear and nonlinear Rayleigh surface waves radiating from a uniform line source. <i>AIP Advances</i> , 2016, 6, 045313.	1.3	3
36	Phased Array Beam Fields of Nonlinear Rayleigh Surface Waves. <i>Chinese Physics Letters</i> , 2016, 33, 074302.	3.3	3

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37	Second-harmonic generation in focused beam fields of phased-array transducers in a nonlinear solid with a stress-free boundary. <i>Transportation Safety and Environment</i> , 2019, 1, 117-125.	2.1	3
38	Investigation of Material Nonlinearity Measurements Using the Third-Harmonic Generation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 3635-3646.	4.7	3
39	Optimal Design of Annular Phased Array Transducers for Material Nonlinearity Determination in Pulse-Echo Ultrasonic Testing. <i>Materials</i> , 2020, 13, 5565.	2.9	3
40	Modeling of wave fields generated by ultrasonic transducers using a quasi-Monte Carlo method. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 7-15.	1.1	3
41	MEASUREMENTS OF NONLINEAR HARMONIC WAVES AT CRACKED INTERFACES. , 2011, , .		2
42	Impact source location of composites using a single sensor and time reversal technique. , 2013, , .		2
43	Nonlinear acoustic effects and material strength degradation due to high temperature exposure. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	1
44	TIME REVERSAL BEAM FOCUSING OF ULTRASONIC ARRAY TRANSDUCER ON A DEFECT IN A TWO LAYER MEDIUM. , 2010, , .		1
45	IMAGING OF A DEFECT IN THIN PLATES USING THE TIME REVERSAL OF SINGLE MODE LAMB WAVES. , 2011, , .		1
46	Absolute Measurement of Material Nonlinear Parameters Using Noncontact Air-Coupled Reception. <i>Materials</i> , 2021, 14, 244.	2.9	1
47	Transmission Phase Control of Annular Array Transducers for Efficient Second Harmonic Generation in the Presence of a Stress-Free Boundary. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4836.	2.5	1
48	Determining the Responsivity of Air-Coupled Piezoelectric Transducers Using a Comparative Method: Theory and Experiments. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3114-3125.	3.0	1
49	Analysis of plate wave motions excited by a point load using a wavelet transform. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0
50	Ultrasonic beam focusing on a defect in anisotropic inhomogeneous media. , 2013, , .		0
51	Signal processing techniques for recovering input waveforms in dispersive Lamb wave propagation. , 2014, , .		0
52	Focused ultrasonic beam behavior at a stress-free boundary and applicability for measuring nonlinear parameter in a reflection mode. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0