

Jin-Yeon Kim

List of Publications by Year in descending order

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182
papers

5,323
citations

76294

40
h-index

91828

69
g-index

185
all docs

185
docs citations

185
times ranked

2159
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental characterization of fatigue damage in a nickel-base superalloy using nonlinear ultrasonic waves. Journal of the Acoustical Society of America, 2006, 120, 1266-1273.	0.5	427
2	Review of Second Harmonic Generation Measurement Techniques for Material State Determination in Metals. Journal of Nondestructive Evaluation, 2015, 34, 1.	1.1	272
3	Assessment of material damage in a nickel-base superalloy using nonlinear Rayleigh surface waves. Journal of Applied Physics, 2006, 99, 124913.	1.1	216
4	Effect of pitting corrosion on fatigue crack initiation and fatigue life. Engineering Fracture Mechanics, 1999, 62, 425-444.	2.0	191
5	Experimental characterization of material nonlinearity using Lamb waves. Applied Physics Letters, 2007, 90, 021901.	1.5	173
6	Characteristics of second harmonic generation of Lamb waves in nonlinear elastic plates. Journal of the Acoustical Society of America, 2010, 127, 2141-2152.	0.5	170
7	Evaluation of fatigue damage using nonlinear guided waves. Smart Materials and Structures, 2009, 18, 035003.	1.8	162
8	Evaluation of plasticity driven material damage using Lamb waves. Applied Physics Letters, 2007, 91, .	1.5	149
9	Fatigue damage evaluation in A36 steel using nonlinear Rayleigh surface waves. NDT and E International, 2012, 48, 10-15.	1.7	134
10	Nonlinear Lamb waves for the detection of material nonlinearity. Mechanical Systems and Signal Processing, 2008, 22, 638-646.	4.4	121
11	Rapid evaluation of alkali-silica reactivity of aggregates using a nonlinear resonance spectroscopy technique. Cement and Concrete Research, 2010, 40, 914-923.	4.6	104
12	Experimental study of nonlinear Rayleigh wave propagation in shot-peened aluminum plates-Feasibility of measuring residual stress. NDT and E International, 2011, 44, 67-74.	1.7	101
13	Ultrasonic assessment of rough surface contact between solids from elastoplastic loading-unloading hysteresis cycle. Journal of the Mechanics and Physics of Solids, 2004, 52, 1911-1934.	2.3	97
14	Damage detection in concrete using coda wave interferometry. NDT and E International, 2011, 44, 728-735.	1.7	93
15	A nonlinear-guided wave technique for evaluating plasticity-driven material damage in a metal plate. NDT and E International, 2009, 42, 199-203.	1.7	91
16	A new technique for measuring the acoustic nonlinearity of materials using Rayleigh waves. NDT and E International, 2008, 41, 326-329.	1.7	85
17	Experimental characterization of efficient second harmonic generation of Lamb wave modes in a nonlinear elastic isotropic plate. Journal of Applied Physics, 2011, 109, .	1.1	85
18	Characterization of ASR damage in concrete using nonlinear impact resonance acoustic spectroscopy technique. NDT and E International, 2011, 44, 721-727.	1.7	82

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19	Air-coupled detection of nonlinear Rayleigh surface waves to assess material nonlinearity. <i>Ultrasonics</i> , 2014, 54, 1470-1475.	2.1	80
20	Evaluation of radiation damage using nonlinear ultrasound. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	79
21	Acoustic Nonlinearity Parameter Due to Microplasticity. <i>Journal of Nondestructive Evaluation</i> , 2006, 25, 28-36.	1.1	72
22	Air-coupled detection of nonlinear Rayleigh surface waves in concrete—Application to microcracking detection. <i>NDT and E International</i> , 2014, 67, 64-70.	1.7	72
23	Micromechanical analysis of effective properties of magneto-electro-thermo-elastic multilayer composites. <i>International Journal of Engineering Science</i> , 2011, 49, 1001-1018.	2.7	71
24	Application of ultrasonic methods for early detection of thermal damage in 2205 duplex stainless steel. <i>NDT and E International</i> , 2013, 54, 19-26.	1.7	71
25	Characterization of progressive microcracking in Portland cement mortar using nonlinear ultrasonics. <i>NDT and E International</i> , 2008, 41, 112-118.	1.7	70
26	Characterization of stress corrosion cracking in carbon steel using nonlinear Rayleigh surface waves. <i>NDT and E International</i> , 2014, 62, 144-152.	1.7	70
27	Diffraction, attenuation, and source corrections for nonlinear Rayleigh wave ultrasonic measurements. <i>Ultrasonics</i> , 2015, 56, 417-426.	2.1	61
28	Hysteretic linear and nonlinear acoustic responses from pressed interfaces. <i>International Journal of Solids and Structures</i> , 2006, 43, 6436-6452.	1.3	60
29	Detection of damage in concrete using diffuse ultrasound. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 3315-3318.	0.5	59
30	Characterization of multi-scale porosity in cement paste by advanced ultrasonic techniques. <i>Cement and Concrete Research</i> , 2007, 37, 38-46.	4.6	54
31	Drying shrinkage in concrete assessed by nonlinear ultrasound. <i>Cement and Concrete Research</i> , 2017, 92, 16-20.	4.6	53
32	Effects of sand aggregate on ultrasonic attenuation in cement-based materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 1-11.	1.3	50
33	Determination of elastic constants of generally anisotropic inclined lamellar structure using line-focus acoustic microscopy. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 2998-3007.	0.5	49
34	Monitoring and evaluation of self-healing in concrete using diffuse ultrasound. <i>NDT and E International</i> , 2013, 57, 36-44.	1.7	49
35	Surface acoustic wave modulation on a partially closed fatigue crack. <i>Journal of the Acoustical Society of America</i> , 2004, 115, 1961-1972.	0.5	48
36	Nonlinear ultrasonic characterization of precipitation in 17-4PH stainless steel. <i>NDT and E International</i> , 2015, 71, 8-15.	1.7	47

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37	Assessment of alkali-silica reaction damage through quantification of concrete nonlinearity. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013, 46, 497-509.	1.3	46
38	Quantitative evaluation of carbonation in concrete using nonlinear ultrasound. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 399-409.	1.3	46
39	Evaluation of sensitization in stainless steel 304 and 304L using nonlinear Rayleigh waves. <i>NDT and E International</i> , 2017, 88, 17-23.	1.7	46
40	Characterization of ultrasonic Rayleigh surface waves in asphaltic concrete. <i>NDT and E International</i> , 2009, 42, 610-617.	1.7	43
41	Sensitivity of ultrasonic nonlinearity to irradiated, annealed, and re-irradiated microstructure changes in RPV steels. <i>Journal of Nuclear Materials</i> , 2014, 448, 26-32.	1.3	42
42	In situ nonlinear ultrasonic technique for monitoring microcracking in concrete subjected to creep and cyclic loading. <i>Ultrasonics</i> , 2018, 88, 64-71.	2.1	42
43	Correction for partial reflection in ultrasonic attenuation measurements using contact transducers. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 2946-2953.	0.5	38
44	The generation of second harmonic waves in an isotropic solid with quadratic nonlinearity under the presence of a stress-free boundary. <i>Wave Motion</i> , 2013, 50, 146-161.	1.0	36
45	Using nonlinear ultrasound to track microstructural changes due to thermal aging in modified 9%Cr ferritic martensitic steel. <i>NDT and E International</i> , 2016, 79, 46-52.	1.7	36
46	Surface acoustic wave measurements of small fatigue cracks initiated from a surface cavity. <i>International Journal of Solids and Structures</i> , 2002, 39, 1487-1504.	1.3	35
47	Theoretical and experimental study of the nonlinear resonance vibration of cementitious materials with an application to damage characterization. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 2728-2737.	0.5	35
48	Characterization of ultrasonic properties of concrete. <i>Mechanics Research Communications</i> , 2009, 36, 207-214.	1.0	32
49	On the generalized self-consistent model for elastic wave propagation in composite materials. <i>International Journal of Solids and Structures</i> , 2004, 41, 4349-4360.	1.3	31
50	A micromechanical model for nonlinear acoustic properties of interfaces between solids. <i>Journal of Applied Physics</i> , 2007, 101, 043501.	1.1	31
51	Mixing of two co-directional Rayleigh surface waves in a nonlinear elastic material. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 281-292.	0.5	31
52	Numerical and Experimental Study of Crack Depth Measurement in Concrete Using Diffuse Ultrasound. <i>Journal of Nondestructive Evaluation</i> , 2013, 32, 81-92.	1.1	29
53	Characterization of thermal damage in sandstone using the second harmonic generation of standing waves. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 91, 81-89.	2.6	28
54	Detecting alkali-silica reaction: A multi-physics approach. <i>Cement and Concrete Composites</i> , 2016, 73, 123-135.	4.6	27

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55	Phase-contrast x-ray imaging for nondestructive evaluation of materials. <i>Journal of Applied Physics</i> , 2006, 100, 014502.	1.1	26
56	Models for wave propagation in two-dimensional random composites: A comparative study. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2201-2209.	0.5	26
57	A Fully Non-contact, Air-Coupled Ultrasonic Measurement of Surface Breaking Cracks in Concrete. <i>Journal of Nondestructive Evaluation</i> , 2015, 34, 1.	1.1	26
58	Relation between crack density and acoustic nonlinearity in thermally damaged sandstone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 125, 104171.	2.6	26
59	Parametric modulation mechanism of surface acoustic wave on a partially closed crack. <i>Applied Physics Letters</i> , 2003, 82, 3203-3205.	1.5	25
60	Nondestructive sizing and localization of internal microcracks in fatigue samples. <i>NDT and E International</i> , 2007, 40, 462-470.	1.7	23
61	Characterization of thermal embrittlement in 2507 super duplex stainless steel using nonlinear acoustic effects. <i>NDT and E International</i> , 2018, 94, 101-108.	1.7	23
62	Scattering of plane acoustic waves by a transversely isotropic cylindrical shell—application to material characterization. <i>Applied Acoustics</i> , 2003, 64, 1187-1204.	1.7	22
63	Experimental investigation of symmetry properties of second harmonic Lamb waves. <i>Journal of Applied Physics</i> , 2012, 111, 053511.	1.1	21
64	Noncontact nonlinear resonance ultrasound spectroscopy (NRUS) for small metallic specimens. <i>NDT and E International</i> , 2018, 98, 37-44.	1.7	20
65	Pyroelectric and pyromagnetic coefficients of functionally graded multilayered multiferroic composites. <i>Acta Mechanica</i> , 2012, 223, 849-860.	1.1	19
66	Nonlinear Rayleigh waves to evaluate plasticity damage in X52 pipeline material. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106794.	4.4	19
67	Insights into delayed ettringite formation damage through acoustic nonlinearity. <i>Cement and Concrete Research</i> , 2017, 95, 1-8.	4.6	18
68	Estimation of Crack Depth in Concrete Using Diffuse Ultrasound: Validation in Cracked Concrete Beams. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	1.1	18
69	Measuring Alkali-Silica Reaction (ASR) Microscale Damage in Large-Scale Concrete Slabs Using Nonlinear Rayleigh Surface Waves. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	1.1	18
70	Evaluation of thermal embrittlement in 2507 super duplex stainless steel using thermoelectric power. <i>Nuclear Engineering and Technology</i> , 2019, 51, 1816-1821.	1.1	17
71	Nonlinear ultrasonic technique for the characterization of microstructure in additive materials. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 158-166.	0.5	16
72	Extinction of elastic wave energy due to scattering in a viscoelastic medium. <i>International Journal of Solids and Structures</i> , 2003, 40, 4319-4329.	1.3	14

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73	Evaluation of the heat-affected zone (HAZ) of a weld joint using nonlinear Rayleigh waves. <i>Materials Letters</i> , 2017, 190, 221-224.	1.3	14
74	Nonlinear Rayleigh surface waves to characterize microscale damage due to alkali-silica reaction (ASR) in full-scale, nuclear concrete specimens. <i>Construction and Building Materials</i> , 2018, 186, 1114-1118.	3.2	14
75	Antiplane shear wave propagation in fiber-reinforced composites. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 2442-2445.	0.5	13
76	Determination of absolute material nonlinearity with air-coupled ultrasonic receivers. <i>Ultrasonics</i> , 2017, 81, 107-117.	2.1	13
77	MONITORING DAMAGE IN CONCRETE USING DIFFUSE ULTRASONIC CODA WAVE INTERFEROMETRY. <i>AIP Conference Proceedings</i> , 2011, . .	0.3	12
78	The Second Harmonic Generation in Reflection Mode: An Analytical, Numerical and Experimental Study. <i>Journal of Nondestructive Evaluation</i> , 2016, 35, 1.	1.1	11
79	Signal processing methods for second harmonic generation in thin specimens. <i>NDT and E International</i> , 2018, 95, 57-64.	1.7	11
80	The impact of sulfate- and sulfide-bearing sand on delayed ettringite formation. <i>Cement and Concrete Composites</i> , 2022, 125, 104323.	4.6	11
81	Extinction and propagation of elastic waves in inhomogeneous materials. <i>Mechanics of Materials</i> , 2003, 35, 877-884.	1.7	10
82	Investigation of Fe-1.0% Cu surrogate specimens with nonlinear ultrasound. <i>NDT and E International</i> , 2017, 89, 40-43.	1.7	10
83	Investigation of the relationship between classical and nonclassical ultrasound nonlinearity parameters and microstructural mechanisms in metals. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 2429-2437.	0.5	10
84	Nonlinear surface wave measurements on aged and laser shock surface-treated Inconel 718 superalloy. <i>NDT and E International</i> , 2021, 121, 102457.	1.7	10
85	Detection of Corrosion and Wall Thinning in Carbon Steel Pipe Covered With Insulation Using Pulsed Eddy Current. <i>Journal of Magnetism</i> , 2016, 21, 57-60.	0.2	10
86	Effective elastic constants of anisotropic multilayers. <i>Mechanics Research Communications</i> , 2001, 28, 97-101.	1.0	9
87	An intelligent stand-alone ultrasonic device for monitoring local structural damage: implementation and preliminary experiments. <i>Smart Materials and Structures</i> , 2011, 20, 015022.	1.8	9
88	Evaluation of 475°C embrittlement in UNS S32750 super duplex stainless steel using four-point electric conductivity measurements. <i>Nuclear Engineering and Technology</i> , 2021, 53, 2982-2989.	1.1	9
89	Effective Properties of Multi-layered Multi-functional Composites. <i>Advanced Composite Materials</i> , 2009, 18, 153-166.	1.0	8
90	Imaging defects in laminate composite plates using focused shear waves generated by air-coupled transducer. <i>Composite Structures</i> , 2016, 152, 891-899.	3.1	8

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91	Design and performance validation of a compact wireless ultrasonic device for localized damage detection. <i>Advances in Structural Engineering</i> , 2016, 19, 270-282.	1.2	8
92	Nonlinear vibration analysis of the resonant column test of granular materials. <i>Journal of Sound and Vibration</i> , 2017, 393, 216-228.	2.1	8
93	Effects of beryllium coating layer on performance of the ultrasonic waveguide sensor. <i>Ultrasonics</i> , 2013, 53, 387-395.	2.1	7
94	A study of microstructural analysis for nondestructive evaluation of thermal annealing using magnetic properties. <i>NDT and E International</i> , 2017, 89, 14-18.	1.7	7
95	A low-cost and efficient d33-mode piezoelectric tuned mass damper with simultaneously optimized electrical and mechanical tuning. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 678-696.	1.4	7
96	Extinction cross-section for elastic wave scattering in energy-absorbing media: revisited. <i>Acta Mechanica</i> , 2009, 207, 153-161.	1.1	6
97	Determination of Contact Evolution on a Soft Hemispherical Probe Using Ultrasound. <i>IEEE Sensors Journal</i> , 2015, 15, 5303-5311.	2.4	6
98	Nonlinear ultrasonic technique for the quantification of dislocation density in additive materials. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	6
99	Anomalous behavior of glass-forming ability and mechanical response in a series of equiatomic binary to denary metallic glasses. <i>Materialia</i> , 2020, 9, 100505.	1.3	6
100	Comparison of changes in nonclassical (\hat{I}_\pm) and classical (\hat{I}^2) acoustic nonlinear parameters due to thermal aging of 9Cr-1Mo ferritic martensitic steel. <i>NDT and E International</i> , 2020, 110, 102226.	1.7	6
101	Use of combined linear and nonlinear ultrasound to examine microstructural and microchemical variations in highly irradiated 304 stainless steel. <i>Journal of Nuclear Materials</i> , 2021, 545, 152644.	1.3	6
102	Use of a non-collinear wave mixing technique to image internal microscale damage in concrete. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	6
103	Cumulative Second Harmonic Generation in Lamb Waves for the Detection of Material Nonlinearities. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	5
104	A RAYLEIGH WAVE TECHNIQUE TO MEASURE THE ACOUSTIC NONLINEARITY PARAMETER OF MATERIALS. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	5
105	EVALUATION OF FATIGUE DAMAGE USING NONLINEAR GUIDED WAVES. , 2009, , .		5
106	MEASURING RESIDUAL STRESS USING NONLINEAR ULTRASOUND. , 2010, , .		5
107	Beam pattern improvement by compensating array nonuniformities in a guided wave phased array. <i>Smart Materials and Structures</i> , 2013, 22, 085002.	1.8	5
108	An analytical filter design method for guided wave phased arrays. <i>Mechanical Systems and Signal Processing</i> , 2016, 81, 433-446.	4.4	5

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109	A piezoelectric brace for passive suppression of structural vibration and energy harvesting. Smart Materials and Structures, 2017, 26, 085005.	1.8	5
110	THICKNESS DETERMINATION OF A PLATE WITH VARYING THICKNESS USING AN ARTIFICIAL NEURAL NETWORK FOR TIME-FREQUENCY REPRESENTATION OF LAMB WAVES. , 2009, , .		4
111	DAMAGE DETECTION IN CONCRETE USING DIFFUSE ULTRASOUND MEASUREMENTS. AIP Conference Proceedings, 2010, , .	0.3	4
112	Nonlinear Rayleigh waves to detect initial damage leading to stress corrosion cracking in carbon steel. , 2012, , .		4
113	A study of helical Lamb wave propagation on two hollow cylinders with imperfect contact conditions. , 2013, , .		4
114	A contact mechanics based model for partially-closed randomly distributed surface microcracks and their effect on acoustic nonlinearity in Rayleigh surface waves. AIP Conference Proceedings, 2016, , .	0.3	4
115	Analytical modeling of the evolution of the nonlinearity parameter of sensitized stainless steel. Journal of Applied Physics, 2021, 130, .	1.1	4
116	Effective medium theories for wave propagation in two-dimensional random inhomogeneous media. Journal of Mechanics of Materials and Structures, 2010, 5, 567-581.	0.4	3
117	ULTRASONIC LAMB WAVE TOMOGRAPHY OF NON-UNIFORM INTERFACIAL STIFFNESS BETWEEN CONTACTING SOLID BODIES. , 2010, , .		3
118	AIR VOID CHARACTERIZATION THROUGH ULTRASONIC ATTENUATION USING AN IMMERSION PROCEDURE. , 2010, , .		3
119	Note: Seesaw actuation of atomic force microscope probes for improved imaging bandwidth and displacement range. Review of Scientific Instruments, 2011, 82, 086104.	0.6	3
120	Crack depth measurement in concrete using diffuse ultrasound. AIP Conference Proceedings, 2012, , .	0.3	3
121	Evaluation of near surface material degradation in concrete using nonlinear Rayleigh surface waves. AIP Conference Proceedings, 2013, , .	0.3	3
122	Using nonlinear ultrasound to measure microstructural changes due to radiation damage in steel. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
123	High-speed tapping-mode atomic force microscopy using a Q -controlled regular cantilever acting as the actuator: Proof-of-principle experiments. Review of Scientific Instruments, 2014, 85, 123705.	0.6	3
124	Nondestructive detection and characterization of carbonation in concrete. , 2014, , .		3
125	Nonlinear ultrasonic assessment of stress corrosion cracking damage in sensitized 304 stainless steel. AIP Conference Proceedings, 2015, , .	0.3	3
126	Monitoring microstructural evolution in irradiated steel with second harmonic generation. , 2015, , .		3

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127	ACPD detection and evaluation of 475 °C embrittlement of aged 2507 super duplex stainless steels. AIP Conference Proceedings, 2017, , .	0.3	3
128	Effect of input signal type and time delay in sensors on wave velocity in rock specimens. Engineering Geology, 2019, 260, 105225.	2.9	3
129	Nonlinear Ultrasonic Techniques for Material Characterization. , 2019, , 225-261.		3
130	Attenuation and speed of antiplane shear wave in fiber-reinforced composites with random interfacial cracks. International Journal of Solids and Structures, 2001, 38, 7121-7137.	1.3	2
131	Modulation Enhanced Detectability of Cracks Using Surface Acoustic Waves. AIP Conference Proceedings, 2003, , .	0.3	2
132	CHARACTERIZATION OF AIR VOIDS IN FRESH CEMENT PASTE THROUGH ULTRASONIC NONDESTRUCTIVE TESTING. AIP Conference Proceedings, 2008, , .	0.3	2
133	CHARACTERIZATION OF CEMENT-BASED MULTIPHASE MATERIALS USING ULTRASONIC WAVE ATTENUATION. , 2009, , .		2
134	A SWITCHING TECHNIQUE FOR MEASURING HIGH ULTRASONIC ATTENUATION. , 2009, , .		2
135	Characterization of fatigue damage in A36 steel specimens using nonlinear rayleigh surface waves. , 2012, , .		2
136	Experimental characterization of creep damage in a welded steel pipe section using a nonlinear ultrasonic technique. , 2012, , .		2
137	Characterization of damage due to stress corrosion cracking in carbon steel using nonlinear surface acoustic waves. , 2013, , .		2
138	Assessment of precipitation in alloy steel using nonlinear Rayleigh surface waves. , 2014, , .		2
139	Evaluation of nonlinear impact resonance spectroscopy method for detecting delayed ettringite formation. , 2015, , .		2
140	Measurement and fitting techniques for the assessment of material nonlinearity using nonlinear Rayleigh waves. , 2015, , .		2
141	Second harmonic generation using nonlinear Rayleigh surface waves in stone. , 2015, , .		2
142	Excitation-dependent nonlinear behavior of distributed microcracks. AIP Conference Proceedings, 2019, , .	0.3	2
143	Device and method for nonlinear ultrasonic measurements on highly irradiated 304 stainless steel specimens in a hot cell environment. Review of Scientific Instruments, 2020, 91, 025103.	0.6	2
144	Assessment of Air Entrainment in Fresh Cement Paste Using Ultrasonic Nondestructive Testing. Journal of ASTM International, 2010, 7, 1-18.	0.2	2

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145	Detection of Deep Subsurface Cracks in Thick Stainless Steel Plate. Journal of Magnetics, 2015, 20, 312-316.	0.2	2
146	<title>Nondestructive characterization of corrosion damage and fatigue life</title>. , 1999, , .		1
147	X-ray microscopy. , 2003, , .		1
148	Microcrack Identification in Cement-Based Materials Using Nonlinear Acoustic Waves. AIP Conference Proceedings, 2007, , .	0.3	1
149	ASSESSMENT OF ALKALI-SILICA REACTION DAMAGE IN MORTARS WITH NONLINEAR ULTRASONIC TECHNIQUES. AIP Conference Proceedings, 2008, , .	0.3	1
150	ON THE EFFICIENT EXCITATION OF SECOND HARMONIC GENERATION USING LAMB WAVE MODES. , 2011, , .		1
151	NDT TECHNIQUES FOR CHARACTERIZING ALKALI-SILICA REACTION IN STANDARD CONCRETE SPECIMENSâ€”A REVIEW. , 2011, , .		1
152	Modal preference of cumulative second harmonic generation in Lamb waves. , 2012, , .		1
153	Optical excitation of narrowband Rayleigh surface waves for second harmonic generation. , 2013, , .		1
154	Mixing of two collinear Rayleigh waves in an isotropic nonlinear elastic half-space. , 2014, , .		1
155	Nondestructive estimation of depth of surface opening cracks in concrete beams. , 2014, , .		1
156	Air-coupled generation and detection of ultrasound in concrete. AIP Conference Proceedings, 2014, , .	0.3	1
157	Radiation damage characterization in reactor pressure vessel steels with nonlinear ultrasound. , 2014, , .		1
158	Insights into alkali-silica reaction damage in mortar through acoustic nonlinearity. AIP Conference Proceedings, 2016, , .	0.3	1
159	Surface Acoustic Wave Characterization of Pitting Corrosion Damage with Fatigue Cracks. Springer Series in Materials Science, 2004, , 142-179.	0.4	1
160	Chaotic search algorithm for detection of discontinuities using guided waves and beamforming data. Measurement Science and Technology, 2021, 32, 035105.	1.4	1
161	Precipitation modeling for prediction of the evolution of acoustic nonlinearity in an ironâ€”copper alloy. NDT and E International, 2022, 127, 102606.	1.7	1
162	Discussion: â€œBoundary Element Analysis of Multiple Scattering Waves in High Performance Concretesâ€”(Sato, Hiroataka, Kitahara, Michihiro, and Shoji, Tetsuo, 2005, ASME J. Appl. Mech., 72, pp.) Tj ETQq0 0D1rgBT /Oerlock 10		

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163	GENERATION AND DETECTION OF LAMB WAVES TO DETECT PLASTICITY-INDUCED CHANGES IN THE MICROSTRUCTURE. AIP Conference Proceedings, 2008, , .	0.3	0
164	CHARACTERIZATION OF DISPERSIVE ULTRASONIC RAYLEIGH SURFACE WAVES IN ASPHALT CONCRETE. AIP Conference Proceedings, 2008, , .	0.3	0
165	RAPID ASSESSMENT OF ALKALI-SILICA REACTION DAMAGE IN CEMENT MORTARS BY NONLINEAR ACOUSTIC TECHNIQUE. , 2009, , .		0
166	CHARACTERIZATION OF DISTRIBUTED DAMAGE IN MORTARS USING A NONLINEAR ACOUSTIC TECHNIQUE. , 2010, , .		0
167	AN INTELLIGENT STAND-ALONE ULTRASONIC DEVICE FOR MONITORING LOCAL DAMAGE GROWTH IN CIVIL STRUCTURES. , 2010, , .		0
168	ON THE EXCITABILITY OF SECOND HARMONIC LAMB WAVES IN ISOTROPIC PLATES. , 2010, , .		0
169	AN IMPROVED PROCESSING ALGORITHM FOR GUIDED WAVE PHASED ARRAY IN PLATE STRUCTURES. , 2010, , .		0
170	Feasibility of using nonlinear guided waves to measure acoustic nonlinearity of aluminum. Proceedings of SPIE, 2011, , .	0.8	0
171	CHARACTERIZATION OF ALKALI-SILICA REACTION IN CONCRETE SPECIMENS USING A NONLINEAR VIBRATION TECHNIQUE. , 2011, , .		0
172	NONLINEAR REFLECTION OF AN OBLIQUELY INCIDENT LONGITUDINAL WAVE AT A FREE SURFACE. , 2011, , .		0
173	Finite element simulation of crack depth measurements in concrete using diffuse ultrasound. , 2012, , .		0
174	Multi-level damage detection with nonlinear ultrasonic methods. AIP Conference Proceedings, 2013, , .	0.3	0
175	Actuation of atomic force microscopy microcantilevers using contact acoustic nonlinearities. Review of Scientific Instruments, 2013, 84, 113705.	0.6	0
176	An analytical and numerical study of the nonlinear reflection at a stress-free surface. , 2015, , .		0
177	Using nonlinear ultrasound measurements to track thermal aging in modified 9%Cr ferritic martensitic steel. , 2015, , .		0
178	Sensitivity of acoustic nonlinearity parameter to the microstructural changes in cement-based materials. , 2015, , .		0
179	Development of a 3D finite element model evaluating air-coupled ultrasonic measurements of nonlinear Rayleigh waves. AIP Conference Proceedings, 2016, , .	0.3	0
180	Variations of Classical and Nonclassical Ultrasound Nonlinearity Parameters during Heat-Induced Microstructural Evolution in an Iron-Copper Alloy. Materials Evaluation, 2021, 79, 465-471.	0.1	0

#	ARTICLE	IF	CITATIONS
181	EXPERIMENTAL STUDY ON NONLINEAR ACOUSTIC PROPERTIES OF CONTACTING SOLID INTERFACES. , 2008, , .		0
182	Nonlinear Ultrasonic Characterization of Radiation Damage Using Charpy Impact Specimen. , 2014, , 1-17.		0