

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
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185
all docs

185
docs citations

185
times ranked

2159
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of sulfate- and sulfide-bearing sand on delayed ettringite formation. Cement and Concrete Composites, 2022, 125, 104323.	4.6	11
2	Precipitation modeling for prediction of the evolution of acoustic nonlinearity in an iron-copper alloy. NDT and E International, 2022, 127, 102606.	1.7	1
3	Use of a non-collinear wave mixing technique to image internal microscale damage in concrete. Journal of Applied Physics, 2022, 131, .	1.1	6
4	Use of combined linear and nonlinear ultrasound to examine microstructural and microchemical variations in highly irradiated 304 stainless steel. Journal of Nuclear Materials, 2021, 545, 152644.	1.3	6
5	A low-cost and efficient d33-mode piezoelectric tuned mass damper with simultaneously optimized electrical and mechanical tuning. Journal of Intelligent Material Systems and Structures, 2021, 32, 678-696.	1.4	7
6	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
7	Nonlinear surface wave measurements on aged and laser shock surface-treated Inconel 718 superalloy. NDT and E International, 2021, 121, 102457.	1.7	10
8	Evaluation of 475°C embrittlement in UNS S32750 super duplex stainless steel using four-point electric conductivity measurements. Nuclear Engineering and Technology, 2021, 53, 2982-2989.	1.1	9
9	Nonlinear ultrasonic technique for the characterization of microstructure in additive materials. Journal of the Acoustical Society of America, 2021, 149, 158-166.	0.5	16
10	Analytical modeling of the evolution of the nonlinearity parameter of sensitized stainless steel. Journal of Applied Physics, 2021, 130, .	1.1	4
11	Chaotic search algorithm for detection of discontinuities using guided waves and beamforming data. Measurement Science and Technology, 2021, 32, 035105.	1.4	1
12	Anomalous behavior of glass-forming ability and mechanical response in a series of equiatomic binary to denary metallic glasses. Materialia, 2020, 9, 100505.	1.3	6
13	Relation between crack density and acoustic nonlinearity in thermally damaged sandstone. International Journal of Rock Mechanics and Minings Sciences, 2020, 125, 104171.	2.6	26
14	Investigation of the relationship between classical and nonclassical ultrasound nonlinearity parameters and microstructural mechanisms in metals. Journal of the Acoustical Society of America, 2020, 148, 2429-2437.	0.5	10
15	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
16	Comparison of changes in nonclassical (\hat{I}_1) and classical (\hat{I}_2) acoustic nonlinear parameters due to thermal aging of 9Cr-1Mo ferritic martensitic steel. NDT and E International, 2020, 110, 102226.	1.7	6
17	Nonlinear Rayleigh waves to evaluate plasticity damage in X52 pipeline material. Mechanical Systems and Signal Processing, 2020, 143, 106794.	4.4	19
18	Effect of input signal type and time delay in sensors on wave velocity in rock specimens. Engineering Geology, 2019, 260, 105225.	2.9	3

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19	Evaluation of thermal embrittlement in 2507 super duplex stainless steel using thermoelectric power. Nuclear Engineering and Technology, 2019, 51, 1816-1821.	1.1	17
20	Excitation-dependent nonlinear behavior of distributed microcracks. AIP Conference Proceedings, 2019, , .	0.3	2
21	Nonlinear ultrasonic technique for the quantification of dislocation density in additive materials. AIP Conference Proceedings, 2019, , .	0.3	6
22	Nonlinear Ultrasonic Techniques for Material Characterization. , 2019, , 225-261.		3
23	Noncontact nonlinear resonance ultrasound spectroscopy (NRUS) for small metallic specimens. NDT and E International, 2018, 98, 37-44.	1.7	20
24	Signal processing methods for second harmonic generation in thin specimens. NDT and E International, 2018, 95, 57-64.	1.7	11
25	Characterization of thermal embrittlement in 2507 super duplex stainless steel using nonlinear acoustic effects. NDT and E International, 2018, 94, 101-108.	1.7	23
26	In situ nonlinear ultrasonic technique for monitoring microcracking in concrete subjected to creep and cyclic loading. Ultrasonics, 2018, 88, 64-71.	2.1	42
27	Nonlinear Rayleigh surface waves to characterize microscale damage due to alkali-silica reaction (ASR) in full-scale, nuclear concrete specimens. Construction and Building Materials, 2018, 186, 1114-1118.	3.2	14
28	Nonlinear vibration analysis of the resonant column test of granular materials. Journal of Sound and Vibration, 2017, 393, 216-228.	2.1	8
29	Evaluation of the heat-affected zone (HAZ) of a weld joint using nonlinear Rayleigh waves. Materials Letters, 2017, 190, 221-224.	1.3	14
30	Insights into delayed ettringite formation damage through acoustic nonlinearity. Cement and Concrete Research, 2017, 95, 1-8.	4.6	18
31	A study of microstructural analysis for nondestructive evaluation of thermal annealing using magnetic properties. NDT and E International, 2017, 89, 14-18.	1.7	7
32	Drying shrinkage in concrete assessed by nonlinear ultrasound. Cement and Concrete Research, 2017, 92, 16-20.	4.6	53
33	Determination of absolute material nonlinearity with air-coupled ultrasonic receivers. Ultrasonics, 2017, 81, 107-117.	2.1	13
34	Investigation of Fe-1.0% Cu surrogate specimens with nonlinear ultrasound. NDT and E International, 2017, 89, 40-43.	1.7	10
35	Evaluation of sensitization in stainless steel 304 and 304L using nonlinear Rayleigh waves. NDT and E International, 2017, 88, 17-23.	1.7	46
36	Characterization of thermal damage in sandstone using the second harmonic generation of standing waves. International Journal of Rock Mechanics and Minings Sciences, 2017, 91, 81-89.	2.6	28

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37	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
38	ACPD detection and evaluation of 475 Å°C embrittlement of aged 2507 super duplex stainless steels. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
39	A piezoelectric brace for passive suppression of structural vibration and energy harvesting. <i>Smart Materials and Structures</i> , 2017, 26, 085005.	1.8	5
40	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
41	A contact mechanics based model for partially-closed randomly distributed surface microcracks and their effect on acoustic nonlinearity in Rayleigh surface waves. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
42	Development of a 3D finite element model evaluating air-coupled ultrasonic measurements of nonlinear Rayleigh waves. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
43	An analytical filter design method for guided wave phased arrays. <i>Mechanical Systems and Signal Processing</i> , 2016, 81, 433-446.	4.4	5
44	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
45	Detecting alkali-silica reaction: A multi-physics approach. <i>Cement and Concrete Composites</i> , 2016, 73, 123-135.	4.6	27
46	Insights into alkali-silica reaction damage in mortar through acoustic nonlinearity. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
47	Quantitative evaluation of carbonation in concrete using nonlinear ultrasound. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 399-409.	1.3	46
48	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
49	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
50	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
51	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
52	Nonlinear ultrasonic assessment of stress corrosion cracking damage in sensitized 304 stainless steel. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	3
53	Monitoring microstructural evolution in irradiated steel with second harmonic generation. , 2015, , .		3
54	Evaluation of nonlinear impact resonance spectroscopy method for detecting delayed ettringite formation. , 2015, , .		2

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55	Measurement and fitting techniques for the assessment of material nonlinearity using nonlinear Rayleigh waves. , 2015, , .		2
56	An analytical and numerical study of the nonlinear reflection at a stress-free surface. , 2015, , .		0
57	Using nonlinear ultrasound measurements to track thermal aging in modified 9%Cr ferritic martensitic steel. , 2015, , .		0
58	Sensitivity of acoustic nonlinearity parameter to the microstructural changes in cement-based materials. , 2015, , .		0
59	Second harmonic generation using nonlinear Rayleigh surface waves in stone. , 2015, , .		2
60	Mixing of two co-directional Rayleigh surface waves in a nonlinear elastic material. Journal of the Acoustical Society of America, 2015, 137, 281-292.	0.5	31
61	A Fully Non-contact, Air-Coupled Ultrasonic Measurement of Surface Breaking Cracks in Concrete. Journal of Nondestructive Evaluation, 2015, 34, 1.	1.1	26
62	Review of Second Harmonic Generation Measurement Techniques for Material State Determination in Metals. Journal of Nondestructive Evaluation, 2015, 34, 1.	1.1	272
63	Determination of Contact Evolution on a Soft Hemispherical Probe Using Ultrasound. IEEE Sensors Journal, 2015, 15, 5303-5311.	2.4	6
64	Nonlinear ultrasonic characterization of precipitation in 17-4PH stainless steel. NDT and E International, 2015, 71, 8-15.	1.7	47
65	Diffraction, attenuation, and source corrections for nonlinear Rayleigh wave ultrasonic measurements. Ultrasonics, 2015, 56, 417-426.	2.1	61
66	Detection of Deep Subsurface Cracks in Thick Stainless Steel Plate. Journal of Magnetism, 2015, 20, 312-316.	0.2	2
67	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
68	Mixing of two collinear Rayleigh waves in an isotropic nonlinear elastic half-space. , 2014, , .		1
69	Assessment of precipitation in alloy steel using nonlinear Rayleigh surface waves. , 2014, , .		2
70	Nondestructive estimation of depth of surface opening cracks in concrete beams. , 2014, , .		1
71	Air-coupled generation and detection of ultrasound in concrete. AIP Conference Proceedings, 2014, , .	0.3	1
72	Radiation damage characterization in reactor pressure vessel steels with nonlinear ultrasound. , 2014, , .		1

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73	Nondestructive detection and characterization of carbonation in concrete. , 2014, , .		3
74	Air-coupled detection of nonlinear Rayleigh surface waves to assess material nonlinearity. Ultrasonics, 2014, 54, 1470-1475.	2.1	80
75	Characterization of stress corrosion cracking in carbon steel using nonlinear Rayleigh surface waves. NDT and E International, 2014, 62, 144-152.	1.7	70
76	Air-coupled detection of nonlinear Rayleigh surface waves in concrete”Application to microcracking detection. NDT and E International, 2014, 67, 64-70.	1.7	72
77	Sensitivity of ultrasonic nonlinearity to irradiated, annealed, and re-irradiated microstructure changes in RPV steels. Journal of Nuclear Materials, 2014, 448, 26-32.	1.3	42
78	Nonlinear Ultrasonic Characterization of Radiation Damage Using Charpy Impact Specimen. , 2014, , 1-17.		0
79	Numerical and Experimental Study of Crack Depth Measurement in Concrete Using Diffuse Ultrasound. Journal of Nondestructive Evaluation, 2013, 32, 81-92.	1.1	29
80	Assessment of alkali”silica reaction damage through quantification of concrete nonlinearity. Materials and Structures/Materiaux Et Constructions, 2013, 46, 497-509.	1.3	46
81	Effects of beryllium coating layer on performance of the ultrasonic waveguide sensor. Ultrasonics, 2013, 53, 387-395.	2.1	7
82	Application of ultrasonic methods for early detection of thermal damage in 2205 duplex stainless steel. NDT and E International, 2013, 54, 19-26.	1.7	71
83	Monitoring and evaluation of self-healing in concrete using diffuse ultrasound. NDT and E International, 2013, 57, 36-44.	1.7	49
84	The generation of second harmonic waves in an isotropic solid with quadratic nonlinearity under the presence of a stress-free boundary. Wave Motion, 2013, 50, 146-161.	1.0	36
85	A study of helical Lamb wave propagation on two hollow cylinders with imperfect contact conditions. , 2013, , .		4
86	Optical excitation of narrowband Rayleigh surface waves for second harmonic generation. , 2013, , .		1
87	Evaluation of near surface material degradation in concrete using nonlinear Rayleigh surface waves. AIP Conference Proceedings, 2013, , .	0.3	3
88	Multi-level damage detection with nonlinear ultrasonic methods. AIP Conference Proceedings, 2013, , .	0.3	0
89	Characterization of damage due to stress corrosion cracking in carbon steel using nonlinear surface acoustic waves. , 2013, , .		2
90	Actuation of atomic force microscopy microcantilevers using contact acoustic nonlinearities. Review of Scientific Instruments, 2013, 84, 113705.	0.6	0

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91	Beam pattern improvement by compensating array nonuniformities in a guided wave phased array. Smart Materials and Structures, 2013, 22, 085002.	1.8	5
92	Using nonlinear ultrasound to measure microstructural changes due to radiation damage in steel. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
93	Modal preference of cumulative second harmonic generation in Lamb waves. , 2012, , .		1
94	Characterization of fatigue damage in A36 steel specimens using nonlinear rayleigh surface waves. , 2012, , .		2
95	Crack depth measurement in concrete using diffuse ultrasound. AIP Conference Proceedings, 2012, , .	0.3	3
96	Experimental characterization of creep damage in a welded steel pipe section using a nonlinear ultrasonic technique. , 2012, , .		2
97	Nonlinear Rayleigh waves to detect initial damage leading to stress corrosion cracking in carbon steel. , 2012, , .		4
98	Finite element simulation of crack depth measurements in concrete using diffuse ultrasound. , 2012, , .		0
99	Experimental investigation of symmetry properties of second harmonic Lamb waves. Journal of Applied Physics, 2012, 111, 053511.	1.1	21
100	Evaluation of radiation damage using nonlinear ultrasound. Journal of Applied Physics, 2012, 111, .	1.1	79
101	Pyroelectric and pyromagnetic coefficients of functionally graded multilayered multiferroic composites. Acta Mechanica, 2012, 223, 849-860.	1.1	19
102	Fatigue damage evaluation in A36 steel using nonlinear Rayleigh surface waves. NDT and E International, 2012, 48, 10-15.	1.7	134
103	Theoretical and experimental study of the nonlinear resonance vibration of cementitious materials with an application to damage characterization. Journal of the Acoustical Society of America, 2011, 130, 2728-2737.	0.5	35
104	Feasibility of using nonlinear guided waves to measure acoustic nonlinearity of aluminum. Proceedings of SPIE, 2011, , .	0.8	0
105	Damage detection in concrete using coda wave interferometry. NDT and E International, 2011, 44, 728-735.	1.7	93
106	Characterization of ASR damage in concrete using nonlinear impact resonance acoustic spectroscopy technique. NDT and E International, 2011, 44, 721-727.	1.7	82
107	Micromechanical analysis of effective properties of magneto-electro-thermo-elastic multilayer composites. International Journal of Engineering Science, 2011, 49, 1001-1018.	2.7	71
108	Experimental study of nonlinear Rayleigh wave propagation in shot-peened aluminum platesâ€”Feasibility of measuring residual stress. NDT and E International, 2011, 44, 67-74.	1.7	101

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109	ON THE EFFICIENT EXCITATION OF SECOND HARMONIC GENERATION USING LAMB WAVE MODES. , 2011, , .		1
110	CHARACTERIZATION OF ALKALI-SILICA REACTION IN CONCRETE SPECIMENS USING A NONLINEAR VIBRATION TECHNIQUE. , 2011, , .		0
111	NDT TECHNIQUES FOR CHARACTERIZING ALKALI-SILICA REACTION IN STANDARD CONCRETE SPECIMENSâ€”A REVIEW. , 2011, , .		1
112	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
113	An intelligent stand-alone ultrasonic device for monitoring local structural damage: implementation and preliminary experiments. Smart Materials and Structures, 2011, 20, 015022.	1.8	9
114	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
115	NONLINEAR REFLECTION OF AN OBLIQUELY INCIDENT LONGITUDINAL WAVE AT A FREE SURFACE. , 2011, , .		0
116	MONITORING DAMAGE IN CONCRETE USING DIFFUSE ULTRASONIC CODA WAVE INTERFEROMETRY. AIP Conference Proceedings, 2011, , .	0.3	12
117	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
118	Rapid evaluation of alkaliâ€”silica reactivity of aggregates using a nonlinear resonance spectroscopy technique. Cement and Concrete Research, 2010, 40, 914-923.	4.6	104
119	Detection of damage in concrete using diffuse ultrasound. Journal of the Acoustical Society of America, 2010, 127, 3315-3318.	0.5	59
120	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
121	MEASURING RESIDUAL STRESS USING NONLINEAR ULTRASOUND. , 2010, , .		5
122	ULTRASONIC LAMB WAVE TOMOGRAPHY OF NON-UNIFORM INTERFACIAL STIFFNESS BETWEEN CONTACTING SOLID BODIES. , 2010, , .		3
123	CHARACTERIZATION OF DISTRIBUTED DAMAGE IN MORTARS USING A NONLINEAR ACOUSTIC TECHNIQUE. , 2010, , .		0
124	AN INTELLIGENT STAND-ALONE ULTRASONIC DEVICE FOR MONITORING LOCAL DAMAGE GROWTH IN CIVIL STRUCTURES. , 2010, , .		0
125	ON THE EXCITABILITY OF SECOND HARMONIC LAMB WAVES IN ISOTROPIC PLATES. , 2010, , .		0
126	AIR VOID CHARACTERIZATION THROUGH ULTRASONIC ATTENUATION USING AN IMMERSION PROCEDURE. , 2010, , .		3

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127	DAMAGE DETECTION IN CONCRETE USING DIFFUSE ULTRASOUND MEASUREMENTS. AIP Conference Proceedings, 2010, , .	0.3	4
128	AN IMPROVED PROCESSING ALGORITHM FOR GUIDED WAVE PHASED ARRAY IN PLATE STRUCTURES. , 2010, , .		0
129	Models for wave propagation in two-dimensional random composites: A comparative study. Journal of the Acoustical Society of America, 2010, 127, 2201-2209.	0.5	26
130	Effects of sand aggregate on ultrasonic attenuation in cement-based materials. Materials and Structures/Materiaux Et Constructions, 2010, 43, 1-11.	1.3	50
131	Assessment of Air Entrainment in Fresh Cement Paste Using Ultrasonic Nondestructive Testing. Journal of ASTM International, 2010, 7, 1-18.	0.2	2
132	THICKNESS DETERMINATION OF A PLATE WITH VARYING THICKNESS USING AN ARTIFICIAL NEURAL NETWORK FOR TIME-FREQUENCY REPRESENTATION OF LAMB WAVES. , 2009, , .		4
133	Determination of elastic constants of generally anisotropic inclined lamellar structure using line-focus acoustic microscopy. Journal of the Acoustical Society of America, 2009, 126, 2998-3007.	0.5	49
134	Extinction cross-section for elastic wave scattering in energy-absorbing media: revisited. Acta Mechanica, 2009, 207, 153-161.	1.1	6
135	Characterization of ultrasonic Rayleigh surface waves in asphaltic concrete. NDT and E International, 2009, 42, 610-617.	1.7	43
136	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
137	Characterization of ultrasonic properties of concrete. Mechanics Research Communications, 2009, 36, 207-214.	1.0	32
138	Evaluation of fatigue damage using nonlinear guided waves. Smart Materials and Structures, 2009, 18, 035003.	1.8	162
139	Correction for partial reflection in ultrasonic attenuation measurements using contact transducers. Journal of the Acoustical Society of America, 2009, 125, 2946-2953.	0.5	38
140	Effective Properties of Multi-layered Multi-functional Composites. Advanced Composite Materials, 2009, 18, 153-166.	1.0	8
141	EVALUATION OF FATIGUE DAMAGE USING NONLINEAR GUIDED WAVES. , 2009, , .		5
142	CHARACTERIZATION OF CEMENT-BASED MULTIPHASE MATERIALS USING ULTRASONIC WAVE ATTENUATION. , 2009, , .		2
143	A SWITCHING TECHNIQUE FOR MEASURING HIGH ULTRASONIC ATTENUATION. , 2009, , .		2
144	RAPID ASSESSMENT OF ALKALI-SILICA REACTION DAMAGE IN CEMENT MORTARS BY NONLINEAR ACOUSTIC TECHNIQUE. , 2009, , .		0

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145	Characterization of progressive microcracking in Portland cement mortar using nonlinear ultrasonics. NDT and E International, 2008, 41, 112-118.	1.7	70
146	Nonlinear Lamb waves for the detection of material nonlinearity. Mechanical Systems and Signal Processing, 2008, 22, 638-646.	4.4	121
147	A new technique for measuring the acoustic nonlinearity of materials using Rayleigh waves. NDT and E International, 2008, 41, 326-329.	1.7	85
148	GENERATION AND DETECTION OF LAMB WAVES TO DETECT PLASTICITY-INDUCED CHANGES IN THE MICROSTRUCTURE. AIP Conference Proceedings, 2008, , .	0.3	0
149	CHARACTERIZATION OF DISPERSIVE ULTRASONIC RAYLEIGH SURFACE WAVES IN ASPHALT CONCRETE. AIP Conference Proceedings, 2008, , .	0.3	0
150	ASSESSMENT OF ALKALI-SILICA REACTION DAMAGE IN MORTARS WITH NONLINEAR ULTRASONIC TECHNIQUES. AIP Conference Proceedings, 2008, , .	0.3	1
151	A RAYLEIGH WAVE TECHNIQUE TO MEASURE THE ACOUSTIC NONLINEARITY PARAMETER OF MATERIALS. AIP Conference Proceedings, 2008, , .	0.3	5
152	CHARACTERIZATION OF AIR VOIDS IN FRESH CEMENT PASTE THROUGH ULTRASONIC NONDESTRUCTIVE TESTING. AIP Conference Proceedings, 2008, , .	0.3	2
153	EXPERIMENTAL STUDY ON NONLINEAR ACOUSTIC PROPERTIES OF CONTACTING SOLID INTERFACES. , 2008, , .		0
154	Experimental characterization of material nonlinearity using Lamb waves. Applied Physics Letters, 2007, 90, 021901.	1.5	173
155	Evaluation of plasticity driven material damage using Lamb waves. Applied Physics Letters, 2007, 91, .	1.5	149
156	A micromechanical model for nonlinear acoustic properties of interfaces between solids. Journal of Applied Physics, 2007, 101, 043501.	1.1	31
157	Cumulative Second Harmonic Generation in Lamb Waves for the Detection of Material Nonlinearities. AIP Conference Proceedings, 2007, , .	0.3	5
158	Microcrack Identification in Cement-Based Materials Using Nonlinear Acoustic Waves. AIP Conference Proceedings, 2007, , .	0.3	1
159	Characterization of multi-scale porosity in cement paste by advanced ultrasonic techniques. Cement and Concrete Research, 2007, 37, 38-46.	4.6	54
160	Nondestructive sizing and localization of internal microcracks in fatigue samples. NDT and E International, 2007, 40, 462-470.	1.7	23
161	Hysteretic linear and nonlinear acoustic responses from pressed interfaces. International Journal of Solids and Structures, 2006, 43, 6436-6452.	1.3	60
162	Acoustic Nonlinearity Parameter Due to Microplasticity. Journal of Nondestructive Evaluation, 2006, 25, 28-36.	1.1	72

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163	Assessment of material damage in a nickel-base superalloy using nonlinear Rayleigh surface waves. <i>Journal of Applied Physics</i> , 2006, 99, 124913.	1.1	216
164	Experimental characterization of fatigue damage in a nickel-base superalloy using nonlinear ultrasonic waves. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 1266-1273.	0.5	427
165	Phase-contrast x-ray imaging for nondestructive evaluation of materials. <i>Journal of Applied Physics</i> , 2006, 100, 014502.	1.1	26
166	Discussion: "Boundary Element Analysis of Multiple Scattering Waves in High Performance Concrete" (Sato, Hiroataka, Kitahara, Michihiro, and Shoji, Tetsuo, 2005, <i>ASME J. Appl. Mech.</i> , 72, pp.)		0
167	Ultrasonic assessment of rough surface contact between solids from elastoplastic loading-unloading hysteresis cycle. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1911-1934.	2.3	97
168	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
169	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
170	Surface Acoustic Wave Characterization of Pitting Corrosion Damage with Fatigue Cracks. <i>Springer Series in Materials Science</i> , 2004, , 142-179.	0.4	1
171	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
172	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
173	Extinction and propagation of elastic waves in inhomogeneous materials. <i>Mechanics of Materials</i> , 2003, 35, 877-884.	1.7	10
174	X-ray microscopy. , 2003, , .		1
175	Parametric modulation mechanism of surface acoustic wave on a partially closed crack. <i>Applied Physics Letters</i> , 2003, 82, 3203-3205.	1.5	25
176	Antiplane shear wave propagation in fiber-reinforced composites. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 2442-2445.	0.5	13
177	Modulation Enhanced Detectability of Cracks Using Surface Acoustic Waves. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	2
178	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
179	Effective elastic constants of anisotropic multilayers. <i>Mechanics Research Communications</i> , 2001, 28, 97-101.	1.0	9
180	Attenuation and speed of antiplane shear wave in fiber-reinforced composites with random interfacial cracks. <i>International Journal of Solids and Structures</i> , 2001, 38, 7121-7137.	1.3	2

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181	Effect of pitting corrosion on fatigue crack initiation and fatigue life. Engineering Fracture Mechanics, 1999, 62, 425-444.	2.0	191
182	<title>Nondestructive characterization of corrosion damage and fatigue life</title>. , 1999, , .		1