

Peter Cawley

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3242228/peter-cawley-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180
papers

8,855
citations

48
h-index

89
g-index

192
ext. papers

10,029
ext. citations

3.2
avg, IF

6.43
L-index

#	Paper	IF	Citations
180	The location of defects in structures from measurements of natural frequencies. <i>Journal of Strain Analysis for Engineering Design</i> , 1979 , 14, 49-57	1.3	927
179	A two-dimensional Fourier transform method for the measurement of propagating multimode signals. <i>Journal of the Acoustical Society of America</i> , 1991 , 89, 1159-1168	2.2	640
178	The interaction of Lamb waves with delaminations in composite laminates. <i>Journal of the Acoustical Society of America</i> , 1993 , 94, 2240-2246	2.2	282
177	The use of Lamb waves for the long range inspection of large structures. <i>Ultrasonics</i> , 1996 , 34, 287-290	3.5	238
176	Optimization of lamb wave inspection techniques. <i>NDT and E International</i> , 1992 , 25, 11-22	4.1	227
175	The reflection of the fundamental torsional mode from cracks and notches in pipes. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 611-25	2.2	192
174	The effect of dispersion on long-range inspection using ultrasonic guided waves. <i>NDT and E International</i> , 2001 , 34, 1-9	4.1	192
173	Disperse: A General Purpose Program for Creating Dispersion Curves 1997 , 185-192		183
172	A review of defect types and nondestructive testing techniques for composites and bonded joints. <i>NDT International</i> , 1988 , 21, 208-222		183
171	The reflection of guided waves from notches in pipes: a guide for interpreting corrosion measurements. <i>NDT and E International</i> , 2004 , 37, 167-180	4.1	177
170	The generation, propagation, and detection of Lamb waves in plates using air-coupled ultrasonic transducers. <i>Journal of the Acoustical Society of America</i> , 1996 , 100, 3070-3077	2.2	163
169	The low frequency reflection characteristics of the fundamental antisymmetric Lamb wave a_0 from a rectangular notch in a plate. <i>Journal of the Acoustical Society of America</i> , 2002 , 112, 2612-22	2.2	161
168	Structural health monitoring: Closing the gap between research and industrial deployment. <i>Structural Health Monitoring</i> , 2018 , 17, 1225-1244	4.4	154
167	The low-frequency reflection and scattering of the S_0 Lamb mode from a circular through-thickness hole in a plate: Finite Element, analytical and experimental studies. <i>Journal of the Acoustical Society of America</i> , 2002 , 112, 2589-601	2.2	139
166	Guided wave health monitoring of complex structures by sparse array systems: Influence of temperature changes on performance. <i>Journal of Sound and Vibration</i> , 2010 , 329, 2306-2322	3.9	138
165	A Vibration Technique for Non-Destructive Testing of Fibre Composite Structures. <i>Journal of Composite Materials</i> , 1979 , 13, 161-175	2.7	134
164	The Potential of Guided Waves for Monitoring Large Areas of Metallic Aircraft Fuselage Structure. <i>Journal of Nondestructive Evaluation</i> , 2001 , 20, 29-46	2.1	133

163	A review of non-destructive techniques for the detection of creep damage in power plant steels. <i>NDT and E International</i> , 2010 , 43, 555-567	4.1	121
162	Study and comparison of different EMAT configurations for SH wave inspection. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2571-81	3.2	113
161	The rapid monitoring of structures using interdigital Lamb wave transducers. <i>Smart Materials and Structures</i> , 2000 , 9, 304-309	3.4	107
160	The finite element analysis of the vibration characteristics of piezoelectric discs. <i>Journal of Sound and Vibration</i> , 1992 , 159, 115-138	3.9	107
159	Evaluation of the damage detection capability of a sparse-array guided-wave SHM system applied to a complex structure under varying thermal conditions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 2666-78	3.2	106
158	A study of the vibro-acoustic modulation technique for the detection of cracks in metals. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 1463-1475	2.2	105
157	Investigation of guided wave propagation and attenuation in pipe buried in sand. <i>Journal of Sound and Vibration</i> , 2015 , 347, 96-114	3.9	101
156	Omnidirectional guided wave inspection of large metallic plate structures using an EMAT array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 653-65	3.2	100
155	Guided waves in fluid-filled pipes surrounded by different fluids. <i>Ultrasonics</i> , 2001 , 39, 367-375	3.5	98
154	The mechanics of the coin-tap method of non-destructive testing. <i>Journal of Sound and Vibration</i> , 1988 , 122, 299-316	3.9	97
153	Eddy-current induced thermography probability of detection study of small fatigue cracks in steel, titanium and nickel-based superalloy. <i>NDT and E International</i> , 2012 , 49, 47-56	4.1	83
152	High-temperature (>500°C) wall thickness monitoring using dry-coupled ultrasonic waveguide transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 156-67	3.2	83
151	The applicability of plate wave techniques for the inspection of adhesive and diffusion bonded joints. <i>Journal of Nondestructive Evaluation</i> , 1994 , 13, 185-200	2.1	80
150	The application of synthetic focusing for imaging crack-like defects in pipelines using guided waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 759-71	3.2	77
149	Amplitude spectrum method for the measurement of phase velocity. <i>Ultrasonics</i> , 1989 , 27, 270-279	3.5	76
148	Scattering of the fundamental shear horizontal mode from steps and notches in plates. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 1880-91	2.2	74
147	The impedance method of non-destructive inspection. <i>NDT International</i> , 1984 , 17, 59-65		74
146	Guided wave diffraction tomography within the born approximation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1405-18	3.2	73

145	The scattering of the fundamental torsional mode from axi-symmetric defects with varying depth profile in pipes. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 3440-8	2.2	72
144	Attenuation characteristics of the fundamental modes that propagate in buried iron water pipes. <i>Ultrasonics</i> , 2003 , 41, 509-19	3.5	69
143	The rapid non-destructive inspection of large composite structures. <i>Composites</i> , 1994 , 25, 351-357		69
142	The ultrasonic vibration characteristics of adhesive joints. <i>Journal of the Acoustical Society of America</i> , 1988 , 83, 632-640	2.2	63
141	The detection of thin embedded layers using normal incidence ultrasound. <i>Ultrasonics</i> , 1994 , 32, 431-440	3.5	61
140	Material property measurement using the quasi-Scholte mode A waveguide sensor. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 1098-1107	2.2	57
139	The excitation and detection of lamb waves with planar coil electromagnetic acoustic transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 2370-83	3.2	56
138	Quantitative modeling of the transduction of electromagnetic acoustic transducers operating on ferromagnetic media. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2808-17	3.2	55
137	Experimental and numerical evaluation of electromagnetic acoustic transducer performance on steel materials. <i>NDT and E International</i> , 2012 , 45, 32-38	4.1	54
136	The reflection of the fundamental torsional guided wave from multiple circular holes in pipes. <i>NDT and E International</i> , 2011 , 44, 553-562	4.1	49
135	The effect of complex defect profiles on the reflection of the fundamental torsional mode in pipes. <i>NDT and E International</i> , 2012 , 46, 41-47	4.1	48
134	Lamb waves in highly attenuative plastic plates. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 874-881	2.2	48
133	A signal regeneration technique for long-range propagation of dispersive Lamb waves. <i>Ultrasonics</i> , 1993 , 31, 201-204	3.5	48
132	Excitation of Single-Mode Lamb Waves at High-Frequency-Thickness Products. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 303-12	3.2	46
131	Feasibility of low frequency straight-ray guided wave tomography. <i>NDT and E International</i> , 2009 , 42, 113-119	4.1	46
130	Scattering of the fundamental shear horizontal mode in a plate when incident at a through crack aligned in the propagation direction of the mode. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 2873-82	2.2	46
129	A study of the transmission of ultrasound across solid-rubber interfaces. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 970-981	2.2	45
128	Prediction of the thermosonic signal from fatigue cracks in metals using vibration damping measurements. <i>Journal of Applied Physics</i> , 2006 , 100, 104905	2.5	44

127	The choice of ultrasonic inspection method for the detection of corrosion at inaccessible locations. <i>NDT and E International</i> , 2018 , 99, 80-92	4.1	43
126	A Stiffness Reduction Method for efficient absorption of waves at boundaries for use in commercial Finite Element codes. <i>Ultrasonics</i> , 2014 , 54, 1868-79	3.5	42
125	The sensitivity of the mechanical impedance method of nondestructive testing. <i>NDT International</i> , 1987 , 20, 209-215		42
124	A guided wave technique for the characterization of highly attenuative viscoelastic materials. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 158-65	2.2	41
123	Evaluation of the cohesive properties of adhesive joints using ultrasonic spectroscopy. <i>NDT International</i> , 1988 , 21, 233-240		41
122	Mode selection for corrosion detection in pipes and vessels via guided wave tomography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1165-77	3.2	39
121	The Predicted and Experimental Natural Modes of Free-Free CFRP Plates. <i>Journal of Composite Materials</i> , 1978 , 12, 336-347	2.7	37
120	The scattering of guided waves in partly embedded cylindrical structures. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 1258-72	2.2	36
119	Potential drop mapping for the monitoring of corrosion or erosion. <i>NDT and E International</i> , 2010 , 43, 394-402	4.1	33
118	Current deflection NDE for the inspection and monitoring of pipes. <i>NDT and E International</i> , 2016 , 81, 46-59	4.1	33
117	Ultrasonic isolation of buried pipes. <i>Journal of Sound and Vibration</i> , 2016 , 363, 225-239	3.9	32
116	The reflection of the fundamental torsional mode from pit clusters in pipes. <i>NDT and E International</i> , 2012 , 46, 83-93	4.1	30
115	Transient thermography testing of unpainted thermal barrier coating (TBC) systems. <i>NDT and E International</i> , 2013 , 59, 48-56	4.1	30
114	The reflection of guided waves from simple supports in pipes. <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 1869-80	2.2	30
113	Adhesive disbond detection of automotive components using first mode ultrasonic resonance. <i>NDT and E International</i> , 2003 , 36, 503-514	4.1	30
112	Lamb wave propagation in composite laminates and its relationship with acousto-ultrasonics. <i>NDT and E International</i> , 1993 , 26, 75-84	4.1	30
111	Defect types and non-destructive testing techniques for composites and bonded joints. <i>Materials Science and Technology</i> , 1989 , 5, 413-425	1.5	30
110	. <i>Proceedings of the IEEE</i> , 2016 , 104, 1620-1631	14.3	29

109	Long-term stability of guided wave structural health monitoring using distributed adhesively bonded piezoelectric transducers. <i>Structural Health Monitoring</i> , 2014 , 13, 265-280	4.4	29
108	Compensation for temperature-dependent phase and velocity of guided wave signals in baseline subtraction for structural health monitoring. <i>Structural Health Monitoring</i> , 2020 , 19, 26-47	4.4	29
107	Low-frequency pulse echo reflection of the fundamental shear horizontal mode from part-thickness elliptical defects in plates. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 3485-93 ^{2.2}	2.2	28
106	Detection of impact damage in CFRP composites by thermosonics. <i>Nondestructive Testing and Evaluation</i> , 2007 , 22, 71-82	2	28
105	On the nature of shear horizontal wave propagation in elastic plates coated with viscoelastic materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004 , 460, 2197-2221	2.4	28
104	Measurement and prediction of the frequency spectrum of piezoelectric disks by modal analysis. <i>Journal of the Acoustical Society of America</i> , 1992 , 92, 3379-3388	2.2	28
103	The introduction of a problem-based option into a conventional engineering degree course. <i>Studies in Higher Education</i> , 1989 , 14, 83-95	2.6	28
102	Efficient generation of receiver operating characteristics for the evaluation of damage detection in practical structural health monitoring applications. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160736	2.4	27
101	The Long Range Detection of Corrosion in Pipes Using Lamb Waves 1995 , 2073-2080		27
100	Cure monitoring using ultrasonic guided waves in wires. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 1303-13	2.2	26
99	Reflection of torsional T(0,1) guided waves from defects in pipe bends. <i>NDT and E International</i> , 2018 , 93, 57-63	4.1	25
98	Determination of density and elastic constants of a thin phosphoric acid-anodized oxide film by acoustic microscopy. <i>Journal of the Acoustical Society of America</i> , 1999 , 106, 2560-2567	2.2	24
97	The influence of sharp edges in corrosion profiles on the reflection of guided waves. <i>NDT and E International</i> , 2012 , 52, 57-68	4.1	23
96	Feasibility of digital image correlation for detection of cracks at fastener holes. <i>NDT and E International</i> , 2009 , 42, 141-149	4.1	23
95	Surface wave modes in rails. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, 733-740	2.2	23
94	Non-linear Ultrasonic NDE of Titanium Diffusion Bonds. <i>Journal of Nondestructive Evaluation</i> , 2014 , 33, 187-195	2.1	22
93	Anomalous behaviour of leaky surface waves for stiffening layer near cutoff. <i>Journal of Applied Physics</i> , 1997 , 82, 1031-1035	2.5	22
92	Defect types and non-destructive testing techniques for composites and bonded joints. <i>Construction and Building Materials</i> , 1989 , 3, 170-183	6.7	22

91	The measurement of through thickness plate vibration using a pulsed ultrasonic transducer. <i>Journal of the Acoustical Society of America</i> , 1988 , 83, 623-631	2.2	22
90	Relative Ability of Wedge-Coupled Piezoelectric and Meander Coil EMAT Probes to Generate Single-Mode Lamb Waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 648-656	3.2	21
89	Natural frequency measurements for production quality control of fibre composites. <i>Composites</i> , 1985 , 16, 23-27		21
88	Location Specific Temperature Compensation of Guided Wave Signals in Structural Health Monitoring. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 146-157	3.2	21
87	Measurement of the frequency dependence of the ultrasonic reflection coefficient from thin interface layers and partially contacting interfaces. <i>Ultrasonics</i> , 1997 , 35, 479-488	3.5	20
86	Long Range Inspection of Rail Using Guided Waves. <i>AIP Conference Proceedings</i> , 2003 ,	0	20
85	Artificial disbonds for calibration of transient thermography inspection of thermal barrier coating systems. <i>NDT and E International</i> , 2012 , 45, 71-78	4.1	19
84	Numerical design optimization of an EMAT for A0 Lamb wave generation in steel plates 2014 ,		19
83	The use of large ultrasonic transducers to improve transmission coefficient measurements on viscoelastic anisotropic plates. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 1373-1379	2.2	19
82	Comparison of normal and oblique incidence ultrasonic measurements for the detection of environmental degradation of adhesive joints. <i>NDT and E International</i> , 2002 , 35, 241-253	4.1	19
81	The detectability of cracks using sonic IR. <i>Journal of Applied Physics</i> , 2009 , 105, 093530	2.5	18
80	Comparison between a type of vibro-acoustic modulation and damping measurement as NDT techniques. <i>NDT and E International</i> , 2006 , 39, 123-131	4.1	18
79	Corrosion Monitoring Strategies Choice Between Area and Point Measurements. <i>Journal of Nondestructive Evaluation</i> , 2013 , 32, 156-163	2.1	17
78	Ultrasonic Non-destructive Evaluation of Titanium Diffusion Bonds. <i>Journal of Nondestructive Evaluation</i> , 2011 , 30, 225-236	2.1	17
77	Errors in mechanical impedance data obtained with impedance heads. <i>Journal of Sound and Vibration</i> , 1980 , 73, 461-468	3.9	17
76	Development of a low-frequency high purity A0 mode transducer for SHM applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1457-68	3.2	16
75	Experimental studies of the magneto-mechanical memory (MMM) technique using permanently installed magnetic sensor arrays. <i>NDT and E International</i> , 2017 , 92, 136-148	4.1	15
74	The membrane resonance method of non-destructive testing. <i>Journal of Sound and Vibration</i> , 1989 , 130, 299-311	3.9	15

73	Potential and Limitations of a Deconvolution Approach for Guided Wave Structural Health Monitoring. <i>Structural Health Monitoring</i> , 2009 , 8, 381-395	4.4	14
72	Measurement of acoustic properties of near-surface soils using an ultrasonic waveguide. <i>Geophysics</i> , 2004 , 69, 460-465	3.1	14
71	An investigation of the accuracy of oblique incidence ultrasonic reflection coefficient measurements. <i>Journal of the Acoustical Society of America</i> , 1994 , 96, 1651-1660	2.2	14
70	Transient response of piezoelectric discs to applied voltage pulses. <i>Ultrasonics</i> , 1991 , 29, 208-217	3.5	14
69	A high frequency coin-tap method of non-destructive testing. <i>Mechanical Systems and Signal Processing</i> , 1991 , 5, 1-11	7.8	14
68	Investigation of guided wave propagation in pipes fully and partially embedded in concrete. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 4528	2.2	14
67	An approximate model for three-dimensional alternating current potential drop analyses using a commercial finite element code. <i>NDT and E International</i> , 2010 , 43, 134-140	4.1	13
66	Ultrasonic interferometry for the measurement of shear velocity and attenuation in viscoelastic solids. <i>Journal of the Acoustical Society of America</i> , 2004 , 115, 157-64	2.2	13
65	The operation of NDT instruments based on the impedance method. <i>Composite Structures</i> , 1985 , 3, 215-228	3.9	13
64	Creep strain measurement using a potential drop technique. <i>International Journal of Mechanical Sciences</i> , 2016 , 110, 190-200	5.5	12
63	Experimental and simulation methods to study the Magnetic Tomography Method (MTM) for pipe defect detection. <i>NDT and E International</i> , 2017 , 92, 59-66	4.1	12
62	Design of a self-calibrating simulated acoustic emission source. <i>Ultrasonics</i> , 2000 , 37, 589-94	3.5	12
61	Crack growth monitoring using fundamental shear horizontal guided waves. <i>Structural Health Monitoring</i> , 2020 , 19, 1311-1322	4.4	12
60	Scattering of the Fundamental Shear Guided Wave From a Surface-Breaking Crack in Plate-Like Structures. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1887-1897	3.2	11
59	Potential drop detection of creep damage in the vicinity of welds. <i>NDT and E International</i> , 2012 , 47, 56-65	4.1	11
58	An EMAT Array for the Rapid Inspection of Large Structures Using Guided Waves. <i>AIP Conference Proceedings</i> , 2003 ,	0	11
57	Measurement and prediction of diffuse fields in structures. <i>Journal of the Acoustical Society of America</i> , 1999 , 106, 3348-3361	2.2	11
56	Performance evaluation of a magnetic field measurement NDE technique using a model assisted Probability of Detection framework. <i>NDT and E International</i> , 2017 , 91, 61-70	4.1	10

55	Comparison of the modal properties of a stiff layer embedded in a solid medium with the minima of the plane-wave reflection coefficient. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 1625-1637	2.2	10
54	The non-destructive assessment of porosity in composite repairs. <i>Composites</i> , 1994 , 25, 842-850		10
53	The scattering of torsional guided waves from Gaussian rough surfaces in pipework. <i>Journal of the Acoustical Society of America</i> , 2017 , 141, 1852	2.2	9
52	A single probe spatial averaging technique for guided waves and its application to surface wave rail inspection. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 2344-56	3.2	9
51	Improved frequency resolution from transient tests with short record lengths. <i>Journal of Sound and Vibration</i> , 1979 , 64, 123-132	3.9	9
50	The influence of the modal properties of a stiff layer embedded in a solid medium on the field generated in the layer by a finite-sized transducer. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 1638-1649	2.2	8
49	A vibration technique for the measurement of contact stiffness. <i>Mechanical Systems and Signal Processing</i> , 1987 , 1, 273-283	7.8	8
48	Interaction Between SH Guided Waves and Tilted Surface-Breaking Cracks in Plates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 119-128	3.2	8
47	Evaluating the use of rate-based monitoring for improved fatigue remnant life predictions. <i>International Journal of Fatigue</i> , 2019 , 120, 162-174	5	8
46	Design and construction of a low frequency wide band non-resonant transducer. <i>Ultrasonics</i> , 2003 , 41, 147-55	3.5	7
45	On the measurement of the Young's modulus of small samples by acoustic interferometry. <i>Journal of the Acoustical Society of America</i> , 2005 , 118, 832-840	2.2	7
44	The practical application of ultrasonic spectroscopy for the measurement of the cohesive properties of adhesive joints. <i>NDT and E International</i> , 1992 , 25, 65-75	4.1	7
43	Vibration characteristics of the Mk II Fokker Bond Tester probe. <i>Ultrasonics</i> , 1986 , 24, 318-324	3.5	7
42	Change detection using the generalized likelihood ratio method to improve the sensitivity of guided wave structural health monitoring systems. <i>Structural Health Monitoring</i> , 147592172098183	4.4	7
41	Fusion of multi-view ultrasonic data for increased detection performance in non-destructive evaluation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200086	2.4	7
40	Validation of a procedure for the evaluation of the performance of an installed structural health monitoring system. <i>Structural Health Monitoring</i> , 2019 , 18, 1557-1568	4.4	7
39	The Inspection of Chemical Plant Pipework Using Lamb Waves: Defect Sensitivity and Field Experience 1996 , 1859-1866		7
38	Monitoring creep damage at a weld using a potential drop technique. <i>International Journal of Pressure Vessels and Piping</i> , 2017 , 153, 15-25	2.4	6

37	Study of metal magnetic memory (MMM) technique using permanently installed magnetic sensor arrays 2017 ,		6
36	Reflection and mode conversion of guided waves at bends in pipes. <i>AIP Conference Proceedings</i> , 2000 ,	0	6
35	The detection of defects in GRP lattice structures by vibration measurements. <i>NDT and E International</i> , 1991 , 24, 123-134	4.1	6
34	The use of the impedance method of non-destructive testing on honeycomb structures. <i>Mechanical Systems and Signal Processing</i> , 1988 , 2, 309-325	7.8	6
33	Improving sensitivity and coverage of structural health monitoring using bulk ultrasonic waves. <i>Structural Health Monitoring</i> , 2020 , 147592172096512	4.4	6
32	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 1313-1326	5.2	6
31	Investigation of ultrasonic backscatter using three-dimensional finite element simulations. <i>Journal of the Acoustical Society of America</i> , 2019 , 145, 1584	2.2	5
30	Reflection Phase Measurements for Ultrasonic NDE of Titanium Diffusion Bonds. <i>Journal of Nondestructive Evaluation</i> , 2014 , 33, 535-546	2.1	5
29	NON-CONTACT SURFACE WAVE SCANNING OF PAVEMENTS USING A ROLLING MICROPHONE ARRAY. <i>AIP Conference Proceedings</i> , 2008 ,	0	5
28	The Guiding of Ultrasound by a Welded Joint in a Plate. <i>AIP Conference Proceedings</i> , 2007 ,	0	5
27	The sensitivity of an NDT instrument based on the membrane resonance method. <i>NDT International</i> , 1989 , 22, 209-216		5
26	The detection of delaminations using flexural waves. <i>NDT International</i> , 1990 , 23, 207-213		5
25	Guided wave tomography performance analysis 2016 ,		4
24	A quick method for the measurement of structural damping. <i>Mechanical Systems and Signal Processing</i> , 1988 , 2, 39-47	7.8	4
23	THE EFFECTIVENESS OF ENGINEERING DEGREE COURSES. <i>Assessment and Evaluation in Higher Education</i> , 1988 , 13, 228-241	3.1	4
22	Permanently installed corrosion monitoring using magnetic measurement of current deflection. <i>Structural Health Monitoring</i> , 2018 , 17, 227-239	4.4	4
21	Investigation of guided waves propagation in pipe buried in sand 2014 ,		3
20	A permanently installed guided wave system for pipe monitoring 2012 ,		3

19	Propagation of guided waves in aircraft structure. <i>AIP Conference Proceedings</i> , 2000 ,	0	3
18	Current deflection NDE for pipeline inspection and monitoring 2016 ,		3
17	Guided Waves for the Detection of Defects in Welds in Plastic Pipes 1995 , 1537-1544		3
16	Potential drop monitoring of creep damage at a weld 2016 ,		2
15	Feasibility and Reliability of Grain Noise Suppression in Monitoring of Highly Scattering Materials. <i>Journal of Nondestructive Evaluation</i> , 2017 , 36, 53	2.1	2
14	A potential drop strain sensor for in-situ power station creep monitoring 2014 ,		2
13	Improving the reliability of automated non-destructive inspection 2012 ,		2
12	Improving the resolution of ultrasonic echoes from thin bondlines using cepstral processing. <i>Journal of Adhesion Science and Technology</i> , 1991 , 5, 667-689	2	2
11	The use of vibration measurements for the detection of diffuse creep damage. <i>Journal of Strain Analysis for Engineering Design</i> , 1981 , 16, 37-41	1.3	2
10	Guided wave attenuation in coated pipes buried in sand 2016 ,		2
9	A Development Strategy for Structural Health Monitoring Applications. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2021 , 4,	0.9	2
8	Potential Drop Strain Sensor for Creep Monitoring 2014 ,		1
7	Continuous Creep Damage Monitoring Using a Novel Potential Drop Technique 2011 ,		1
6	Artificial disbonds for calibration of transient thermography inspection of thermal barrier coating systems 2012 ,		1
5	Evaluation of Multilayered Pavement Structures from Measurements of Surface Waves. <i>AIP Conference Proceedings</i> , 2006 ,	0	1
4	Guided wave inspection of chemical plant pipework 1996 ,		1
3	Non-Contact Surface Wave Testing While Moving 2007 ,		1
2	Design optimisation of permanently installed monitoring system for polycrystalline materials. <i>Structural Health Monitoring</i> , 2021 , 20, 1294-1311	4.4	

1 Guided Wave Monitoring of Industrial Pipework Improved Sensitivity System and Field Experience. *Lecture Notes in Civil Engineering*, **2021**, 819-829

0.3