

Anthony Croxford

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,312
citations

516710

16
h-index

434195

31
g-index

41
all docs

41
docs citations

41
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient temperature compensation strategies for guided wave structural health monitoring. Ultrasonics, 2010, 50, 517-528.	3.9	304
2	Chirp excitation of ultrasonic guided waves. Ultrasonics, 2013, 53, 265-270.	3.9	198
3	Maximum-likelihood estimation of damage location in guided-wave structural health monitoring. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 2575-2596.	2.1	119
4	Realization of compact tractor beams using acoustic delay-lines. Applied Physics Letters, 2017, 110, .	3.3	83
5	Acoustic Lock: Position and orientation trapping of non-spherical sub-wavelength particles in mid-air using a single-axis acoustic levitator. Applied Physics Letters, 2018, 113, .	3.3	50
6	Acoustic Hologram Enhanced Phased Arrays for Ultrasonic Particle Manipulation. Physical Review Applied, 2019, 12, .	3.8	49
7	Imaging algorithms for locating damage via in situ ultrasonic sensors. , 2008, , .		43
8	Deep learning in automated ultrasonic NDE “ Developments, axioms and opportunities. NDT and E International, 2022, 131, 102703.	3.7	43
9	Statistically-based damage detection in geometrically-complex structures using ultrasonic interrogation. Structural Health Monitoring, 2013, 12, 141-152.	7.5	40
10	Strategies for overcoming the effect of temperature on guided wave structural health monitoring. , 2007, 6532, 590.		32
11	Enhanced detection through low-order stochastic modeling for guided-wave structural health monitoring. Structural Health Monitoring, 2012, 11, 149-160.	7.5	32
12	A Model for Multiview Ultrasonic Array Inspection of Small Two-Dimensional Defects. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1129-1139.	3.0	32
13	Experimental Quantification of Noise in Linear Ultrasonic Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 79-90.	3.0	30
14	Monitoring cure and detecting damage in composites with inductively coupled embedded sensors. Composites Science and Technology, 2016, 134, 81-88.	7.8	29
15	Continuous baseline growth and monitoring for guided wave SHM. Smart Materials and Structures, 2013, 22, 055029.	3.5	25
16	Scattering of plane guided waves obliquely incident on a straight feature with uniform cross-section. Journal of the Acoustical Society of America, 2010, 128, 2715-2725.	1.1	22
17	Data Fusion of Multiview Ultrasonic Imaging for Characterization of Large Defects. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2387-2401.	3.0	19
18	A deep learning based methodology for artefact identification and suppression with application to ultrasonic images. NDT and E International, 2022, 126, 102575.	3.7	19

#	ARTICLE	IF	CITATIONS
19	Investigation of inductively coupled ultrasonic transducer system for NDE. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1115-1125.	3.0	16
20	Design of an embedded sensor, for improved structural performance. Smart Materials and Structures, 2015, 24, 115014.	3.5	16
21	Numerical and experimental study of the nonlinear interaction between a shear wave and a frictional interface. Journal of the Acoustical Society of America, 2014, 135, 1709-1716.	1.1	14
22	Strategies for Guided Wave Structural Health Monitoring. AIP Conference Proceedings, 2007, , .	0.4	13
23	Characterisation of small embedded two-dimensional defects using multi-view Total Focusing Method imaging algorithm. NDT and E International, 2021, 119, 102413.	3.7	13
24	Fusion of multi-view ultrasonic data for increased detection performance in non-destructive evaluation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200086.	2.1	13
25	Local scattering ultrasound imaging. Scientific Reports, 2021, 11, 993.	3.3	11
26	Sensitivity images for multi-view ultrasonic array inspection. AIP Conference Proceedings, 2018, , .	0.4	9
27	Defect detection in guided wave signals using nonlinear autoregressive exogenous method. Structural Health Monitoring, 2022, 21, 1012-1030.	7.5	9
28	Automated detection and characterisation of defects from multiview ultrasonic imaging. NDT and E International, 2022, 128, 102628.	3.7	9
29	Strategies for guided acoustic wave inspection using mobile robots. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, 20210762.	2.1	6
30	Ultrasonic Nondestructive Characterization of Blockages and Defects in Underground Pipes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2540-2554.	3.0	6
31	Ultrasonic phased array imaging of contact-acoustic nonlinearity. Proceedings of Meetings on Acoustics, 2016, , .	0.3	3
32	QUANTIFICATION OF SHM SENSOR ARRAY PERFORMANCE. , 2009, , .		1
33	A Feasibility Study of Noncontact Ultrasonic Sensor for Nuclear Power Plant Inspection. Journal of Nuclear Engineering and Radiation Science, 2017, 3, .	0.4	1
34	The influence of tensile stress on inductively coupled piezoceramic sensors embedded in fibre-reinforced plastics. Structural Health Monitoring, 2020, , 147592172092616.	7.5	1
35	The practical feasibility of guided wave structural health monitoring. , 0, , .		1
36	An iterative design of experiments based data collection approach for ultrasonic guided waves. AIP Conference Proceedings, 2017, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Methodologies for validating ray-based forward model using finite element method in ultrasonic array data simulation. AIP Conference Proceedings, 2018, , .	0.4	0