

And Jie Zhang

List of Publications by Year in descending order

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40
papers

1,066
citations

394421

19
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect detection using ultrasonic arrays: The multi-mode total focusing method. NDT and E International, 2010, 43, 123-133.	3.7	209
2	Defect characterization using an ultrasonic array to measure the scattering coefficient matrix. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2254-2265.	3.0	111
3	The Use of Ultrasonic Arrays to Characterize Crack-Like Defects. Journal of Nondestructive Evaluation, 2010, 29, 222-232.	2.4	67
4	Comparison of ultrasonic array imaging algorithms for nondestructive evaluation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1732-1745.	3.0	51
5	Effects of array transducer inconsistencies on total focusing method imaging performance. NDT and E International, 2011, 44, 361-368.	3.7	44
6	Acoustic measurement of lubricant-film thickness distribution in ball bearings. Journal of the Acoustical Society of America, 2006, 119, 863.	1.1	42
7	Efficient immersion imaging of components with nonplanar surfaces. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1284-1295.	3.0	40
8	Longitudinal wave scattering from rough crack-like defects. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2171-2180.	3.0	38
9	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
10	Novel ray-tracing algorithms in NDE: Application of Dijkstra and A* algorithms to the inspection of an anisotropic weld. NDT and E International, 2014, 61, 58-66.	3.7	31
11	Effect of roughness on imaging and sizing rough crack-like defects using ultrasonic arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 939-948.	3.0	30
12	Experimental Quantification of Noise in Linear Ultrasonic Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 79-90.	3.0	30
13	Monte carlo inversion of ultrasonic array data to map anisotropic weld properties. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2487-2497.	3.0	29
14	The sizing of small surface-breaking fatigue cracks using ultrasonic arrays. NDT and E International, 2018, 99, 64-71.	3.7	29
15	Investigation into the Effect of Acoustic Radiation Force and Acoustic Streaming on Particle Patterning in Acoustic Standing Wave Fields. Sensors, 2017, 17, 1664.	3.8	28
16	Quantification of the Effect of Array Element Pitch on Imaging Performance. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 600-616.	3.0	24
17	Preload Monitoring of Bolted L-Shaped Lap Joints Using Virtual Time Reversal Method. Sensors, 2018, 18, 1928.	3.8	22
18	Multi-scale patterning of microparticles using a combination of surface acoustic waves and ultrasonic bulk waves. Applied Physics Letters, 2014, 104, .	3.3	19

#	ARTICLE	IF	CITATIONS
19	A bolt preload monitoring method based on the refocusing capability of virtual time reversal. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2370.	4.0	19
20	Data Fusion of Multiview Ultrasonic Imaging for Characterization of Large Defects. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 2387-2401.	3.0	19
21	Measurement of the ultrasonic scattering matrices of near-surface defects using ultrasonic arrays. <i>Nondestructive Testing and Evaluation</i> , 2016, 31, 303-318.	2.1	15
22	Comparison of Experimental Measurements of Material Grain Size Using Ultrasound. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	2.4	15
23	Comparison of Time Domain and Frequency-Wavenumber Domain Ultrasonic Array Imaging Algorithms for Non-Destructive Evaluation. <i>Sensors</i> , 2020, 20, 4951.	3.8	14
24	Characterisation of small embedded two-dimensional defects using multi-view Total Focusing Method imaging algorithm. <i>NDT and E International</i> , 2021, 119, 102413.	3.7	13
25	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.	2.1	13
26	Investigation into distinguishing between small volumetric and crack-like defects using multi-view total focusing method images. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	11
27	Assessment methodology for defect characterisation using ultrasonic arrays. <i>NDT and E International</i> , 2018, 94, 126-136.	3.7	11
28	Higher-order spatial correlation coefficients of ultrasonic backscattering signals using partial cross-correlation analysis. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 757-768.	1.1	10
29	Fatigue crack inspection and characterisation using non-collinear shear wave mixing. <i>Smart Materials and Structures</i> , 2020, 29, 055024.	3.5	9
30	The use of full-skip ultrasonic data and Bayesian inference for improved characterisation of crack-like defects. <i>NDT and E International</i> , 2021, 121, 102467.	3.7	9
31	Ultrasonic oil-film thickness measurement: An angular spectrum approach to assess performance limits. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 2612-2620.	1.1	8
32	Thin oil-film thickness distribution measurement using ultrasonic arrays. <i>NDT and E International</i> , 2008, 41, 596-601.	3.7	7
33	Angular and frequency behaviour of elastodynamic scattering from embedded scatterers. <i>Ultrasonics</i> , 2019, 99, 105964.	3.9	6
34	Strategies for guided acoustic wave inspection using mobile robots. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, 20210762.	2.1	6
35	Investigation into the transmission of guided waves across bolt jointed plates. <i>Applied Acoustics</i> , 2022, 196, 108866.	3.3	3
36	The Evaluation of Ultrasonic FMC/TFM on Real Fatigue Cracks. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	Ultrasonic nonlinear fields generated from transmitters with varied aperture angles. Applied Acoustics, 2022, 195, 108867.	3.3	1
38	Investigation into angular and frequency dependence of scattering matrices of elastodynamic scatterers. AIP Conference Proceedings, 2016, , .	0.4	0
39	Methodologies for validating ray-based forward model using finite element method in ultrasonic array data simulation. AIP Conference Proceedings, 2018, , .	0.4	0
40	Efficient model of wave scattering from large defects in ultrasonic array inspections. NDT and E International, 2022, 130, 102675.	3.7	0