

Jennifer E Michaels

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,156
citations

759233

12
h-index

794594

19
g-index

42
all docs

42
docs citations

42
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Incremental scattering of the A0 Lamb wave mode from a notch emanating from a through-hole. Ultrasonics, 2019, 91, 220-230.	3.9	13
2	Ultrasonic Wavefield Imaging. , 2019, , 43-74.		1
3	Space-time windowing of angle-beam wavefield data to characterize scattering from defects. AIP Conference Proceedings, 2018, , .	0.4	0
4	A comparison of angle-beam shear wave scattering from hidden defects in single-and double-layer plates. AIP Conference Proceedings, 2018, , .	0.4	0
5	Ultrasonic Wavefield Imaging. , 2018, , 1-32.		2
6	Increasing the acquisition speed of a multi-channel guided wave system via simultaneous coded excitations. AIP Conference Proceedings, 2017, , .	0.4	1
7	Ultrasonic wavefield imaging: Research tool or emerging NDE method?. AIP Conference Proceedings, 2017, , .	0.4	18
8	Quantification of Shear Wave Scattering From Far-Surface Defects via Ultrasonic Wavefield Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 590-601.	3.0	7
9	Angle-beam shear wave scattering from buried crack-like defects in bonded specimens. AIP Conference Proceedings, 2017, , .	0.4	3
10	Robust baseline subtraction for ultrasonic full wavefield analysis. AIP Conference Proceedings, 2017, , .	0.4	5
11	Isolation of ultrasonic scattering by wavefield baseline subtraction. Mechanical Systems and Signal Processing, 2016, 70-71, 891-903.	8.0	31
12	On the measurement of guided wavefields via air-coupled ultrasonic transducers. , 2015, , .		0
13	Incremental scattering of guided waves from a notch originating at a through-hole. , 2015, , .		2
14	Challenges in the separation and analysis of scattered waves in angle-beam wavefield data. AIP Conference Proceedings, 2015, , .	0.4	2
15	Detection and characterization of impact damage in composite panels using multiple ultrasonic methods. , 2015, , .		1
16	Multipath ultrasonic guided wave imaging in complex structures. Structural Health Monitoring, 2015, 14, 345-358.	7.5	72
17	Block-sparse Lamb wave structural health monitoring using generic scattering models. , 2014, , .		2
18	Acquisition and analysis of angle-beam wavefield data. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
19	Design of distributed sparse arrays for Lamb wave SHM based upon estimated scattering matrices. AIP Conference Proceedings, 2014, , .	0.4	6
20	Guided Wave Damage Characterization via Minimum Variance Imaging with a Distributed Array of Ultrasonic Sensors. Journal of Nondestructive Evaluation, 2014, 33, 299-308.	2.4	73
21	Chirp excitation of ultrasonic guided waves. Ultrasonics, 2013, 53, 265-270.	3.9	198
22	Lamb wave mode decomposition using annular transducers and quadrature signals. AIP Conference Proceedings, 2013, , .	0.4	0
23	Estimation of guided wave scattering matrices from spatially distributed transducer arrays. , 2013, , .		1
24	Multi-path guided wave imaging for in situ monitoring of complex structures. , 2013, , .		4
25	ACOUSTOELASTIC LAMB WAVES AND IMPLICATIONS FOR STRUCTURAL HEALTH MONITORING. , 2011, , 91-117.		2
26	Frequency-wavenumber domain analysis of guided wavefields. Ultrasonics, 2011, 51, 452-466.	3.9	238
27	ANALYSIS OF DISTRIBUTED SPARSE ARRAY CONFIGURATIONS FOR GUIDED WAVE IMAGING APPLICATIONS. , 2011, , .		2
28	ACOUSTOELASTIC LAMB WAVE PROPAGATION IN A HOMOGENEOUS, ISOTROPIC ALUMINUM PLATE. AIP Conference Proceedings, 2011, , .	0.4	22
29	IMPACT OF APPLIED LOADS ON GUIDED WAVE STRUCTURAL HEALTH MONITORING. AIP Conference Proceedings, 2011, , .	0.4	17
30	MODEL-BASED IN SITU PARAMETER ESTIMATION OF ULTRASONIC GUIDED WAVES IN AN ISOTROPIC PLATE. , 2010, , .		0
31	BEAMFORMING OF WAVEFIELD DATA FROM EMBEDDED SOURCES FOR RAPID FOLLOW-UP INSPECTION OF INACCESSIBLE AREAS. , 2010, , .		4
32	EFFICIENT PERTURBATION ANALYSIS OF LAMB WAVE DISPERSION CURVES. , 2010, , .		8
33	IN SITU DETECTION OF SURFACE-MOUNTED PZT TRANSDUCER DEFECTS USING LINEAR RECIPROCITY. , 2010, , .		4
34	COMPARISON OF MODELING AND EXPERIMENTS OF LAMB WAVES AS APPLIED TO STRUCTURAL HEALTH MONITORING. , 2009, , .		0
35	ONE-SIDED LIQUID COUPLED ULTRASONIC METHOD FOR RECOVERY OF THIRD ORDER ELASTIC CONSTANTS. , 2009, , .		2
36	Signal processing experiments with the LEGO MINDSTORMS NXT kit for use in signals and systems courses. , 2009, , .		16

#	ARTICLE	IF	CITATIONS
37	Feature Extraction and Sensor Fusion for Ultrasonic Structural Health Monitoring Under Changing Environmental Conditions. IEEE Sensors Journal, 2009, 9, 1462-1471.	4.7	128
38	Imaging algorithms for locating damage via in situ ultrasonic sensors. , 2008, , .		43
39	An Ultrasonic Angle Beam Method for in situ Sizing of Fastener Hole Cracks. Journal of Nondestructive Evaluation, 2006, 25, 2-15.	2.4	29
40	Detection of structural damage from the local temporal coherence of diffuse ultrasonic signals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1769-1782.	3.0	164
41	Sparse Ultrasonic Transducer Array for Structural Health Monitoring. AIP Conference Proceedings, 2004, , .	0.4	29