Eric B Flynn

List of Publications by Year
in descending order

33 papers	832 citations	759233 12 h-index	610901 24 g-index
41 all docs	41 docs citations	41 times ranked	727 citing authors

#	Article	IF	Citations
1	Delamination Detection in Fiber Metal Laminates Using Ultrasonic Wavefield Imaging. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 59-72.	0.5	2
2	Predicting local material thickness from steady-state ultrasonic wavefield measurements using a convolutional neural network. Ultrasonics, 2022, 123, 106661.	3.9	3
3	Detection of keyhole pore formations in laser powder-bed fusion using acoustic process monitoring measurements. Additive Manufacturing, 2022, 55, 102735.	3.0	10
4	Compressive laser scanning with full steady state wavefield for structural damage detection. Mechanical Systems and Signal Processing, 2021, 169, 108626.	8.0	2
5	2D-wavelet wavenumber filtering for structural damage detection using full steady-state wavefield laser scanning. NDT and E International, 2020, 116, 102343.	3.7	24
6	On the theoretical limitations in estimating thickness of a plate-like structure from a full-field single-tone response Lamb wave measurement. Ultrasonics, 2020, 108, 106230.	3.9	2
7	Toward Utilizing Full-Field Laser-Ultrasound for Practical Nondestructive Inspection with Acoustic Wavenumber Spectroscopy. , 2018, , .		1
8	Nondestructive evaluation of composite materials via scanning laser ultrasound spectroscopy. , 2017, , .		1
9	In-Process Ultrasonic Inspection of Additive Manufactured Parts. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 235-247.	0.5	15
10	Scanning laser ultrasound and wavenumber spectroscopy for in-process inspection of additively manufactured parts. Proceedings of SPIE, 2016, , .	0.8	13
11	Stochastic Wavenumber Estimation: Damage Detection Through Simulated Guided Lamb Waves. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 105-126.	0.5	0
12	Spar disbond visualization in in-service composite UAV with ultrasonic propagation imager. Aerospace Science and Technology, 2015, 45, 180-185.	4.8	20
13	Remote imaging of local resonance for inspection of honeycomb sandwich composite panels. , 2015, , .		1
14	Multi-wave-mode, multi-frequency detectors for guided wave interrogation of plate structures. Structural Health Monitoring, 2014, 13, 120-130.	7.5	18
15	Dispersion curve estimation via phased array beamforming methods. Journal of Intelligent Material Systems and Structures, 2014, 25, 563-574.	2.5	3
16	Nonlinear Modeling for Adaptive Suppression of Axial Drilling Vibration. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 195-210.	0.5	1
17	Simulating translation-induced laser speckle dynamics in photon Doppler velocimetry. Applied Optics, 2014, 53, 4661.	1.8	11
18	Non-destructive Examination of Multiphase Material Distribution in Uranium Hexafluoride Cylinders Using Steady-State Laser Doppler Vibrometery. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 81-88.	0.5	4

#	ARTICLE	IF	CITATIONS
19	Structural imaging through local wavenumber estimation of guided waves. NDT and E International, 2013, 59, 1-10.	3.7	149
20	Statistically-based damage detection in geometrically-complex structures using ultrasonic interrogation. Structural Health Monitoring, 2013, 12, 141-152.	7.5	40
21	Enhanced detection through low-order stochastic modeling for guided-wave structural health monitoring. Structural Health Monitoring, 2012, 11, 149-160.	7.5	32
22	Laser excitation and fully non-contact sensing ultrasonic propagation imaging system for damage evaluation. , 2012, , .		6
23	Maximum a posteriori probability estimation for localizing damage using ultrasonic guided waves. Proceedings of SPIE, 2011, , .	0.8	0
24	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
25	A Bayesian approach to optimal sensor placement for structural health monitoring with application to active sensing. Mechanical Systems and Signal Processing, 2010, 24, 891-903.	8.0	190
26	Bayesian probabilistic structural modeling for optimal sensor placement in ultrasonic guided wave-based structural health monitoring. , 2010, , .		5
27	Optimal Placement of Piezoelectric Actuators and Sensors for Detecting Damage in Plate Structures. Journal of Intelligent Material Systems and Structures, 2010, 21, 265-274.	2.5	66
28	Feature-specific optimal sensor placement for active sensing. Proceedings of SPIE, 2009, , .	0.8	1
29	A Mobile Host Approach for Wireless Powering and Interrogation of Structural Health Monitoring Sensor Networks. IEEE Sensors Journal, 2009, 9, 1719-1726.	4.7	84
30	Optimal Sensor Placement for Active Sensing. , 2008, , .		0
31	Imaging and Characterizing Structural Defects through the Estimation of Local Dispersion Curves. Key Engineering Materials, 0, 569-570, 956-961.	0.4	2
32	Small Defect Detection Through Local Analysis of Acoustic Spatial Wavenumber. , 0, , .		1
33	Online Electro-mechanical Impedance-based Structural Tamper Detection. , 0, , .		0