

Eric B Flynn

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

832
citations

759233

12
h-index

610901

24
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41
all docs

41
docs citations

41
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
1	A Bayesian approach to optimal sensor placement for structural health monitoring with application to active sensing. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 891-903.	8.0	190
2	Structural imaging through local wavenumber estimation of guided waves. <i>NDT and E International</i> , 2013, 59, 1-10.	3.7	149
3	Maximum-likelihood estimation of damage location in guided-wave structural health monitoring. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 2575-2596.	2.1	119
4	A Mobile Host Approach for Wireless Powering and Interrogation of Structural Health Monitoring Sensor Networks. <i>IEEE Sensors Journal</i> , 2009, 9, 1719-1726.	4.7	84
5	Optimal Placement of Piezoelectric Actuators and Sensors for Detecting Damage in Plate Structures. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 265-274.	2.5	66
6	Statistically-based damage detection in geometrically-complex structures using ultrasonic interrogation. <i>Structural Health Monitoring</i> , 2013, 12, 141-152.	7.5	40
7	Enhanced detection through low-order stochastic modeling for guided-wave structural health monitoring. <i>Structural Health Monitoring</i> , 2012, 11, 149-160.	7.5	32
8	2D-wavelet wavenumber filtering for structural damage detection using full steady-state wavefield laser scanning. <i>NDT and E International</i> , 2020, 116, 102343.	3.7	24
9	Spar disbond visualization in in-service composite UAV with ultrasonic propagation imager. <i>Aerospace Science and Technology</i> , 2015, 45, 180-185.	4.8	20
10	Multi-wave-mode, multi-frequency detectors for guided wave interrogation of plate structures. <i>Structural Health Monitoring</i> , 2014, 13, 120-130.	7.5	18
11	In-Process Ultrasonic Inspection of Additive Manufactured Parts. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 235-247.	0.5	15
12	Scanning laser ultrasound and wavenumber spectroscopy for in-process inspection of additively manufactured parts. <i>Proceedings of SPIE</i> , 2016, , .	0.8	13
13	Simulating translation-induced laser speckle dynamics in photon Doppler velocimetry. <i>Applied Optics</i> , 2014, 53, 4661.	1.8	11
14	Detection of keyhole pore formations in laser powder-bed fusion using acoustic process monitoring measurements. <i>Additive Manufacturing</i> , 2022, 55, 102735.	3.0	10
15	Laser excitation and fully non-contact sensing ultrasonic propagation imaging system for damage evaluation. , 2012, , .		6
16	Bayesian probabilistic structural modeling for optimal sensor placement in ultrasonic guided wave-based structural health monitoring. , 2010, , .		5
17	Non-destructive Examination of Multiphase Material Distribution in Uranium Hexafluoride Cylinders Using Steady-State Laser Doppler Vibrometry. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014, , 81-88.	0.5	4
18	Dispersion curve estimation via phased array beamforming methods. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 563-574.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Predicting local material thickness from steady-state ultrasonic wavefield measurements using a convolutional neural network. Ultrasonics, 2022, 123, 106661.	3.9	3
20	Imaging and Characterizing Structural Defects through the Estimation of Local Dispersion Curves. Key Engineering Materials, 0, 569-570, 956-961.	0.4	2
21	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
22	Delamination Detection in Fiber Metal Laminates Using Ultrasonic Wavefield Imaging. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 59-72.	0.5	2
23	Compressive laser scanning with full steady state wavefield for structural damage detection. Mechanical Systems and Signal Processing, 2021, 169, 108626.	8.0	2
24	Feature-specific optimal sensor placement for active sensing. Proceedings of SPIE, 2009, , .	0.8	1
25	Nonlinear Modeling for Adaptive Suppression of Axial Drilling Vibration. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 195-210.	0.5	1
26	Remote imaging of local resonance for inspection of honeycomb sandwich composite panels. , 2015, , .		1
27	Nondestructive evaluation of composite materials via scanning laser ultrasound spectroscopy. , 2017, , .		1
28	Toward Utilizing Full-Field Laser-Ultrasound for Practical Nondestructive Inspection with Acoustic Wavenumber Spectroscopy. , 2018, , .		1
29	Small Defect Detection Through Local Analysis of Acoustic Spatial Wavenumber. , 0, , .		1
30	Optimal Sensor Placement for Active Sensing. , 2008, , .		0
31	Maximum a posteriori probability estimation for localizing damage using ultrasonic guided waves. Proceedings of SPIE, 2011, , .	0.8	0
32	Online Electro-mechanical Impedance-based Structural Tamper Detection. , 0, , .		0
33	Stochastic Wavenumber Estimation: Damage Detection Through Simulated Guided Lamb Waves. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 105-126.	0.5	0