

Wieslaw Ostachowicz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

1,797
citations

19
h-index

41
g-index

78
ext. papers

2,113
ext. citations

3.7
avg, IF

5.23
L-index

#	Paper	IF	Citations
64	Damage Detection in Rods via Use of a Genetic Algorithm and a Deep-Learning Based Surrogate. <i>Lecture Notes in Civil Engineering</i> , 2023 , 272-280	0.3	
63	Wave Propagation Modeling via Neural Networks for Emulating a Wave Response Signal. <i>Lecture Notes in Civil Engineering</i> , 2023 , 512-520	0.3	
62	A nonlinearity-sensitive approach for detection of Breathing Cracks relying on energy modulation effect. <i>Journal of Sound and Vibration</i> , 2022 , 524, 116754	3.9	3
61	Guided wavefield curvature imaging of invisible damage in composite structures. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107240	7.8	13
60	Nonlinear pseudo-force in a breathing crack to generate harmonics. <i>Journal of Sound and Vibration</i> , 2021 , 492, 115734	3.9	7
59	Strategies for Identification of Elastic Constants in Highly Anisotropic Materials Using Lamb Waves. <i>Lecture Notes in Civil Engineering</i> , 2021 , 779-787	0.3	0
58	A two-step method for additional mass identification in beam structures by measurements of natural frequencies and guided waves. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 186, 110049	4.6	1
57	Identification of multiple cracks in noisy conditions using scale-correlation-based multiscale product of SWPT with laser vibration measurement. <i>Mechanical Systems and Signal Processing</i> , 2020 , 145, 106889	7.8	5
56	Identification of instantaneous tension of bridge cables from dynamic responses: STRICT algorithm and applications. <i>Mechanical Systems and Signal Processing</i> , 2020 , 142, 106729	7.8	7
55	Singular energy component for identification of initial delamination in CFRP laminates through piezoelectric actuation and non-contact measurement. <i>Smart Materials and Structures</i> , 2020 , 29, 045001	3.4	11
54	A Data-Driven Damage Identification Framework Based on Transmissibility Function Datasets and One-Dimensional Convolutional Neural Networks: Verification on a Structural Health Monitoring Benchmark Structure. <i>Sensors</i> , 2020 , 20,	3.8	16
53	Lamb-Wave-Based Method in the Evaluation of Self-Healing Efficiency. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2585	2.6	2
52	A novel damage characterization approach for laminated composites in the absence of material and structural information. <i>Mechanical Systems and Signal Processing</i> , 2020 , 143, 106831	7.8	11
51	Wavelet-aided guided wavefield imaging of delaminations in laminated composite plates. <i>Smart Materials and Structures</i> , 2020 , 29, 105029	3.4	2
50	Nonlinear elastic wave propagation and breathing-debond identification in a smart composite structure. <i>Composites Part B: Engineering</i> , 2020 , 200, 108304	10	9
49	Delamination-induced relative natural frequency change curve and its use for delamination localization in laminated composite beams. <i>Composite Structures</i> , 2019 , 230, 111501	5.3	16
48	Damage Identification in Various Types of Composite Plates Using Guided Waves Excited by a Piezoelectric Transducer and Measured by a Laser Vibrometer. <i>Sensors</i> , 2019 , 19,	3.8	20

47	Non-uniform crack identification in plate-like structures using wavelet 2D modal curvature under noisy conditions. <i>Mechanical Systems and Signal Processing</i> , 2019 , 126, 469-489	7.8	22
46	Nondestructive Analysis of Debonds in a Composite Structure under Variable Temperature Conditions. <i>Sensors</i> , 2019 , 19,	3.8	11
45	A novel method for single and multiple damage detection in beams using relative natural frequency changes. <i>Mechanical Systems and Signal Processing</i> , 2019 , 132, 335-352	7.8	49
44	Vibration-based damage growth monitoring in beam-like structures. <i>Vibroengineering PROCEDIA</i> , 2019 , 28, 12-17	0.4	0
43	Nondestructive analysis of core-junction and joint-debond effects in advanced composite structure. <i>Polymer Testing</i> , 2019 , 73, 31-38	4.5	14
42	Effects of debonding on Lamb wave propagation in a bonded composite structure under variable temperature conditions. <i>Smart Materials and Structures</i> , 2019 , 28, 015021	3.4	16
41	Ultrasonic Lamb wave-based debonding monitoring of advanced honeycomb sandwich composite structures. <i>Strain</i> , 2019 , 55, e12302	1.7	16
40	A noise-robust damage indicator for characterizing singularity of mode shapes for incipient delamination identification in CFRP laminates. <i>Mechanical Systems and Signal Processing</i> , 2019 , 121, 183-200	7.8	13
39	Damage-induced acoustic emission source monitoring in a honeycomb sandwich composite structure. <i>Composites Part B: Engineering</i> , 2019 , 158, 179-188	10	24
38	Damage-induced acoustic emission source identification in an advanced sandwich composite structure. <i>Composite Structures</i> , 2018 , 202, 860-866	5.3	19
37	Novel Techniques for Damage Detection Based on Mode Shape Analysis. <i>Computational and Experimental Methods in Structures</i> , 2018 , 173-196		1
36	Online detection of barely visible low-speed impact damage in 3D-core sandwich composite structure. <i>Composite Structures</i> , 2018 , 185, 646-655	5.3	32
35	A pulse coding and decoding strategy to perform Lamb wave inspections using simultaneously multiple actuators. <i>Mechanical Systems and Signal Processing</i> , 2017 , 91, 111-121	7.8	19
34	Damage assessment in wind turbine technology. <i>E3S Web of Conferences</i> , 2017 , 14, 01015	0.5	2
33	Delamination monitoring in CFRP laminated plates under noisy conditions using complex-wavelet 2D curvature mode shapes. <i>Smart Materials and Structures</i> , 2017 , 26, 104008	3.4	15
32	An application of Structural Health Monitoring system based on FBG sensors to offshore wind turbine support structure model. <i>Marine Structures</i> , 2017 , 51, 65-86	3.8	66
31	Moisture contamination detection in adhesive bond using embedded FBG sensors. <i>Mechanical Systems and Signal Processing</i> , 2017 , 84, 1-14	7.8	26
30	Crack Identification in CFRP Laminated Beams Using Multi-Resolution Modal Teager-Kaiser Energy under Noisy Environments. <i>Materials</i> , 2017 , 10,	3.5	9

29	Vibrational damage detection using fractal surface singularities with noncontact laser measurement. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 2569-2581	2	12
28	Detection of Damage in Metallic Structures for Offshore Applications 2016 , 213-232		
27	A concept of complex-wavelet modal curvature for detecting multiple cracks in beams under noisy conditions. <i>Mechanical Systems and Signal Processing</i> , 2016 , 76-77, 555-575	7.8	38
26	Two-dimensional curvature mode shape method based on wavelets and Teager energy for damage detection in plates. <i>Journal of Sound and Vibration</i> , 2015 , 347, 266-278	3.9	55
25	Identification of cracks in thin-walled structures by means of wavenumber filtering. <i>Mechanical Systems and Signal Processing</i> , 2015 , 50-51, 456-466	7.8	94
24	Moisture detection in composites by terahertz spectroscopy. <i>Journal of Physics: Conference Series</i> , 2015 , 628, 012100	0.3	4
23	Identification of Incipient Damage Using High-Frequency Vibrational Responses. <i>Shock and Vibration</i> , 2015 , 2015, 1-1	1.1	2
22	Heat induced damage detection in composite materials by terahertz radiation 2015 ,		3
21	Identification of multiple damage in beams based on robust curvature mode shapes. <i>Mechanical Systems and Signal Processing</i> , 2014 , 46, 468-480	7.8	99
20	Damage detection in plates using two-dimensional directional Gaussian wavelets and laser scanned operating deflection shapes. <i>Structural Health Monitoring</i> , 2013 , 12, 457-468	4.4	35
19	Structural health monitoring by means of elastic wave propagation. <i>Journal of Physics: Conference Series</i> , 2012 , 382, 012003	0.3	5
18	Fractal Dimension Analysis of Higher-Order Mode Shapes for Damage Identification of Beam Structures. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-16	1.1	613
17	Analytical Modeling and Vibration Analysis of Partially Cracked Rectangular Plates With Different Boundary Conditions and Loading. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2009 , 76,	2.7	56
16	Modelling of wave propagation in composite plates using the time domain spectral element method. <i>Journal of Sound and Vibration</i> , 2007 , 302, 728-745	3.9	127
15	Propagation of in-plane elastic waves in a composite panel. <i>Finite Elements in Analysis and Design</i> , 2006 , 43, 145-154	2.2	19
14	The spectral finite element model for analysis of flexural-shear coupled wave propagation: Part 1: Laminated multilayer composite beam. <i>Composite Structures</i> , 2005 , 68, 37-44	5.3	21
13	Elastic Wave Propagation Development for Structural Health Monitoring 2005 , 275-286		1
12	Wave propagation in plate structures for crack detection. <i>Finite Elements in Analysis and Design</i> , 2004 , 40, 991-1004	2.2	38

11	Wave propagation in delaminated beam. <i>Computers and Structures</i> , 2004 , 82, 475-483	4.5	18
10	Finite element model of plate with elasto-plastic through crack. <i>Computers and Structures</i> , 2001 , 79, 519-532	4.5	23
9	A general FE algorithm for 3D incremental analysis of frictional contact problems of elastoplasticity. <i>Finite Elements in Analysis and Design</i> , 1997 , 27, 289-305	2.2	1
8	A general FE computer program for 3D incremental analysis of frictional contact problems of elastoplasticity. <i>Finite Elements in Analysis and Design</i> , 1997 , 27, 307-322	2.2	2
7	Forced vibrations of a beam including dry friction dampers. <i>Computers and Structures</i> , 1989 , 33, 851-858	4.5	6
6	Vibrations of beams with constructional friction. <i>Computers and Structures</i> , 1986 , 23, 859-867	4.5	1
5	Vibrations of beams with elastic contact. <i>Computers and Structures</i> , 1986 , 22, 763-771	4.5	4
4	Mixed finite element method for contact problems. <i>Computers and Structures</i> , 1984 , 18, 937-945	4.5	12
3	Theory of finite element method for elastic contact problems of solid bodies. <i>Computers and Structures</i> , 1983 , 17, 51-59	4.5	26
2	Electromechanical impedance based debond localisation in a composite sandwich structure. <i>Journal of Intelligent Material Systems and Structures</i> , 1045389X2110572	2.3	2
1	Imaging Delamination in Composite Laminates Using Perturbation to Steady-state Wavefields. <i>Smart Materials and Structures</i> ,	3.4	2