Wieslaw Ostachowicz

List of Publications by Citations

64	1,797	19	41
papers	citations	h-index	g-index
78	2,113	3.7	5.23
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
64	Fractal Dimension Analysis of Higher-Order Mode Shapes for Damage Identification of Beam Structures. *Mathematical Problems in Engineering*, **2012**, 2012, 1-16	1.1	613
63	Modelling of wave propagation in composite plates using the time domain spectral element method. *Journal of Sound and Vibration*, **2007**, 302, 728-745	3.9	127
62	Identification of multiple damage in beams based on robust curvature mode shapes. *Mechanical Systems and Signal Processing*, **2014**, 46, 468-480	7.8	99
61	Identification of cracks in thin-walled structures by means of wavenumber filtering. *Mechanical Systems and Signal Processing*, **2015**, 50-51, 456-466	7.8	94
60	An application of Structural Health Monitoring system based on FBG sensors to offshore wind turbine support structure model. *Marine Structures*, **2017**, 51, 65-86	3.8	66
59	Analytical Modeling and Vibration Analysis of Partially Cracked Rectangular Plates With Different Boundary Conditions and Loading. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	56
58	Two-dimensional curvature mode shape method based on wavelets and Teager energy for damage detection in plates. *Journal of Sound and Vibration*, **2015**, 347, 266-278	3.9	55
57	A novel method for single and multiple damage detection in beams using relative natural frequency changes. *Mechanical Systems and Signal Processing*, **2019**, 132, 335-352	7.8	49
56	Wave propagation in plate structures for crack detection. *Finite Elements in Analysis and Design*, **2004**, 40, 991-1004	2.2	38
55	A concept of complex-wavelet modal curvature for detecting multiple cracks in beams under noisy conditions. *Mechanical Systems and Signal Processing*, **2016**, 76-77, 555-575	7.8	38
54	Damage detection in plates using two-dimensional directional Gaussian wavelets and laser scanned operating deflection shapes. *Structural Health Monitoring*, **2013**, 12, 457-468	4.4	35
53	Online detection of barely visible low-speed impact damage in 3D-core sandwich composite structure. *Composite Structures*, **2018**, 185, 646-655	5.3	32
52	Moisture contamination detection in adhesive bond using embedded FBG sensors. *Mechanical Systems and Signal Processing*, **2017**, 84, 1-14	7.8	26
51	Theory of finite element method for elastic contact problems of solid bodies. *Computers and Structures*, **1983**, 17, 51-59	4.5	26
50	Damage-induced acoustic emission source monitoring in a honeycomb sandwich composite structure. *Composites Part B: Engineering*, **2019**, 158, 179-188	10	24
49	Finite element model of plate with elasto-plastic through crack. *Computers and Structures*, **2001**, 79, 519-532	4.5	23
48	Non-uniform crack identification in plate-like structures using wavelet 2D modal curvature under noisy conditions. *Mechanical Systems and Signal Processing*, **2019**, 126, 469-489	7.8	22

47	The spectral finite element model for analysis of flexural-shear coupled wave propagation: Part 1: Laminated multilayer composite beam. *Composite Structures*, **2005**, 68, 37-44	5.3	21
46	Damage Identification in Various Types of Composite Plates Using Guided Waves Excited by a Piezoelectric Transducer and Measured by a Laser Vibrometer. *Sensors*, **2019**, 19,	3.8	20
45	A pulse coding and decoding strategy to perform Lamb wave inspections using simultaneously multiple actuators. *Mechanical Systems and Signal Processing*, **2017**, 91, 111-121	7.8	19
44	Damage-induced acoustic emission source identification in an advanced sandwich composite structure. *Composite Structures*, **2018**, 202, 860-866	5.3	19
43	Propagation of in-plane elastic waves in a composite panel. *Finite Elements in Analysis and Design*, **2006**, 43, 145-154	2.2	19
42	Wave propagation in delaminated beam. *Computers and Structures*, **2004**, 82, 475-483	4.5	18
41	Delamination-induced relative natural frequency change curve and its use for delamination localization in laminated composite beams. *Composite Structures*, **2019**, 230, 111501	5.3	16
40	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. *Sensors*, **2020**, 20,	3.8	16
39	Effects of debonding on Lamb wave propagation in a bonded composite structure under variable temperature conditions. *Smart Materials and Structures*, **2019**, 28, 015021	3.4	16
38	Ultrasonic Lamb wave-based debonding monitoring of advanced honeycomb sandwich composite structures. *Strain*, **2019**, 55, e12302	1.7	16
37	Delamination monitoring in CFRP laminated plates under noisy conditions using complex-wavelet 2D curvature mode shapes. *Smart Materials and Structures*, **2017**, 26, 104008	3.4	15
36	Nondestructive analysis of core-junction and joint-debond effects in advanced composite structure. *Polymer Testing*, **2019**, 73, 31-38	4.5	14
35	A noise-robust damage indicator for characterizing singularity of mode shapes for incipient delamination identification in CFRP laminates. *Mechanical Systems and Signal Processing*, **2019**, 121, 183-200	7.8	13
34	Guided wavefield curvature imaging of invisible damage in composite structures. *Mechanical Systems and Signal Processing*, **2021**, 150, 107240	7.8	13
33	Vibrational damage detection using fractal surface singularities with noncontact laser measurement. *JVC/Journal of Vibration and Control*, **2016**, 22, 2569-2581	2	12
32	Mixed finite element method for contact problems. *Computers and Structures*, **1984**, 18, 937-945	4.5	12
31	Singular energy component for identification of initial delamination in CFRP laminates through piezoelectric actuation and non-contact measurement. *Smart Materials and Structures*, **2020**, 29, 045001	3.4	11
30	A novel damage characterization approach for laminated composites in the absence of material and structural information. *Mechanical Systems and Signal Processing*, **2020**, 143, 106831	7.8	11

29	Nondestructive Analysis of Debonds in a Composite Structure under Variable Temperature Conditions. *Sensors*, **2019**, 19,	3.8	11
28	Crack Identification in CFRP Laminated Beams Using Multi-Resolution Modal Teager-Kaiser Energy under Noisy Environments. *Materials*, **2017**, 10,	3.5	9
27	Nonlinear elastic wave propagation and breathing-debond identification in a smart composite structure. *Composites Part B: Engineering*, **2020**, 200, 108304	10	9
26	Identification of instantaneous tension of bridge cables from dynamic responses: STRICT algorithm and applications. *Mechanical Systems and Signal Processing*, **2020**, 142, 106729	7.8	7
25	Nonlinear pseudo-force in a breathing crack to generate harmonics. *Journal of Sound and Vibration*, **2021**, 492, 115734	3.9	7
24	Forced vibrations of a beam including dry friction dampers. *Computers and Structures*, **1989**, 33, 851-858	4.5	6
23	Identification of multiple cracks in noisy conditions using scale-correlation-based multiscale product of SWPT with laser vibration measurement. *Mechanical Systems and Signal Processing*, **2020**, 145, 106889	7.8	5
22	Structural health monitoring by means of elastic wave propagation. *Journal of Physics: Conference Series*, **2012**, 382, 012003	0.3	5
21	Moisture detection in composites by terahertz spectroscopy. *Journal of Physics: Conference Series*, **2015**, 628, 012100	0.3	4
20	Vibrations of beams with elastic contact. *Computers and Structures*, **1986**, 22, 763-771	4.5	4
19	Heat induced damage detection in composite materials by terahertz radiation **2015**,		3
18	A nonlinearity-sensitive approach for detection of ‘breathing’ cracks relying on energy modulation effect. *Journal of Sound and Vibration*, **2022**, 524, 116754	3.9	3
17	Lamb-Wave-Based Method in the Evaluation of Self-Healing Efficiency. *Applied Sciences (Switzerland)*, **2020**, 10, 2585	2.6	2
16	Damage assessment in wind turbine technology. *E3S Web of Conferences*, **2017**, 14, 01015	0.5	2
15	Identification of Incipient Damage Using High-Frequency Vibrational Responses. *Shock and Vibration*, **2015**, 2015, 1-1	1.1	2
14	A general FE computer program for 3D incremental analysis of frictional contact problems of elastoplasticity. *Finite Elements in Analysis and Design*, **1997**, 27, 307-322	2.2	2
13	Electromechanical impedance based debond localisation in a composite sandwich structure. *Journal of Intelligent Material Systems and Structures*,1045389X2110572	2.3	2
12	Wavelet-aided guided wavefield imaging of delaminations in laminated composite plates. *Smart Materials and Structures*, **2020**, 29, 105029	3.4	2

List of Publications

11	Imaging Delamination in Composite Laminates Using Perturbation to Steady-state Wavefields. *Smart Materials and Structures*,	3.4	2
10	Novel Techniques for Damage Detection Based on Mode Shape Analysis. *Computational and Experimental Methods in Structures*, **2018**, 173-196		1
9	A general FE algorithm for 3D incremental analysis of frictional contact problems of elastoplasticity. *Finite Elements in Analysis and Design*, **1997**, 27, 289-305	2.2	1
8	Vibrations of beams with constructional friction. *Computers and Structures*, **1986**, 23, 859-867	4.5	1
7	A two-step method for additional mass identification in beam structures by measurements of natural frequencies and guided waves. *Measurement: Journal of the International Measurement Confederation*, **2021**, 186, 110049	4.6	1
6	Elastic Wave Propagation Development for Structural Health Monitoring **2005**, 275-286		1
5	Vibration-based damage growth monitoring in beam-like structures. *Vibroengineering PROCEDIA*, **2019**, 28, 12-17	0.4	0
4	Strategies for Identification of Elastic Constants in Highly Anisotropic Materials Using Lamb Waves. *Lecture Notes in Civil Engineering*, **2021**, 779-787	0.3	0
3	Detection of Damage in Metallic Structures for Offshore Applications **2016**, 213-232		
2	Damage Detection in Rods via Use of a Genetic Algorithm and a Deep-Learning Based Surrogate. *Lecture Notes in Civil Engineering*, **2023**, 272-280	0.3	
1	Wave Propagation Modeling via Neural Networks for Emulating a Wave Response Signal. *Lecture Notes in Civil Engineering*, **2023**, 512-520	0.3	