List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A hybrid method for determination of fatigue limit and non-destructive evaluation of composite structures after low-velocity impact loading. Composites Part B: Engineering, 2022, 238, 109898.	12.0	13
2	A reverse engineering approach for modeling of barely visible impact damage by combining results of non-destructive testing and numerical simulations. Procedia Structural Integrity, 2022, 37, 195-202.	0.8	1
3	Damage classification in composite structures based on X-ray computed tomography scans using features evaluation and deep neural networks. Procedia Structural Integrity, 2022, 37, 187-194.	0.8	2
4	Effectiveness of damage identification in composite plates using damage indices based on smoothing polynomials and curvelet transform: A comparative study. Procedia Structural Integrity, 2022, 37, 292-298.	0.8	2
5	Optimal Sensor Placement for Modal-Based Health Monitoring of a Composite Structure. Sensors, 2022, 22, 3867.	3.8	17
6	Identification of structural damage using S-transform from 1D and 2D mode shapes. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108656.	5.0	14
7	Damage Identification in Beams by Post-processing Modal Displacements and Rotations with Haar Wavelet. Lecture Notes in Civil Engineering, 2021, , 817-824.	0.4	2
8	Performance of Damage Identification Based on Directional Wavelet Transforms and Entopic Weights Using Experimental Shearographic Testing Results. Sensors, 2021, 21, 714.	3.8	1
9	Damage identification by wavelet analysis of modal rotation differences. Structures, 2021, 30, 1-10.	3.6	17
10	Modeling of a realistic barely visible impact damage in composite structures based on NDT techniques and numerical simulations. Composite Structures, 2021, 267, 113889.	5.8	17
11	Assessment of Internal Damage in Sandwich Structures by Post-Processing of Mode Shapes Using Curvelet Transform. Materials, 2021, 14, 4517.	2.9	2
12	Quality Control Approach for the Detection of Internal Lower Density Areas in Composite Disks in Industrial Conditions Based on a Combination of NDT Techniques. Sensors, 2021, 21, 7174.	3.8	9
13	Classification of Cracks in Composite Structures Subjected to Low-Velocity Impact Using Distribution-Based Segmentation and Wavelet Analysis of X-ray Tomograms. Sensors, 2021, 21, 8342.	3.8	3
14	Fabrication and application of electrically conducting composites for electromagnetic interference shielding of remotely piloted aircraft systems. Composite Structures, 2020, 232, 111498.	5.8	61
15	Damage Identification and Quantification in Beams Using Wigner-Ville Distribution. Sensors, 2020, 20, 6638.	3.8	9
16	Damage progression in fibre reinforced polymer composites subjected to low-velocity repeated impact loading. Composite Structures, 2020, 252, 112735.	5.8	25
17	Numerical analysis of electrically conductive fillers of composites for aircraft lightning strike protection. Aircraft Engineering and Aerospace Technology, 2020, 92, 1441-1450.	1.2	3
18	Damage Detection in Four Point Bending Test on Benchmark RC Structure Using Feature based Fusion. Procedia Structural Integrity, 2020, 25, 324-333.	0.8	2

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19	Influence of Air Cooling on the Fatigue of a Polymer Composite Under Self-Heating. Mechanics of Composite Materials, 2020, 56, 93-102.	1.4	1
20	Analysis of selected parameters in numerical modeling of low-velocity impact damage in composite structures. Procedia Structural Integrity, 2020, 25, 19-26.	0.8	6
21	Remarks on quasi-static and interlaminar fracture toughness tests of composite structures. Procedia Structural Integrity, 2020, 25, 13-18.	0.8	3
22	Impact Damage Evaluation in Composite Structures Based on Fusion of Results of Ultrasonic Testing and X-ray Computed Tomography. Sensors, 2020, 20, 1867.	3.8	30
23	Determination of fatigue limit of polymeric composites in fully reversed bending loading mode using self-heating effect. Journal of Composite Materials, 2019, 53, 83-91.	2.4	13
24	Identification of multiple damage using modal rotation obtained with shearography and undecimated wavelet transform. Mechanical Systems and Signal Processing, 2019, 116, 725-740.	8.0	31
25	Identification of material properties of a laminated plate from measurements of natural frequencies and modal rotations. Procedia Structural Integrity, 2019, 17, 971-978.	0.8	5
26	Early Crack Detection of Reinforced Concrete Structure Using Embedded Sensors. Sensors, 2019, 19, 3879.	3.8	42
27	Reconstruction of Barely Visible Impact Damage in Composite Structures Based on Non-Destructive Evaluation Results. Sensors, 2019, 19, 4629.	3.8	34
28	Embedded ultrasonic transmission sensors and signal processing techniques for structural change detection in the Gliwice bridge. Procedia Structural Integrity, 2019, 17, 387-394.	0.8	11
29	Minimizing self-heating based fatigue degradation in polymeric composites by air cooling. Procedia Structural Integrity, 2019, 18, 20-27.	0.8	7
30	Criticality of the Self-Heating Effect in Polymers and Polymer Matrix Composites during Fatigue, and Their Application in Non-Destructive Testing. Polymers, 2019, 11, 19.	4.5	45
31	Impact damage assessment in polymer matrix composites using self-heating based vibrothermography. Composite Structures, 2019, 214, 214-226.	5.8	18
32	Addressing the detection capability for scalable energy consumption using primary data acquisition system of embedded ultrasonic sensors in SHM. , 2019, , .		1
33	Application of wavelet analysis to differences in modal rotations for damage identification. IOP Conference Series: Materials Science and Engineering, 2019, 561, 012024.	0.6	6
34	Enhancement of damage identification in composite structures with self-heating based vibrothermography. Optik, 2019, 181, 545-554.	2.9	5
35	Vibration-Based Damage Identification Using Wavelet Transform and a Numerical Model of Shearography. International Journal of Structural Stability and Dynamics, 2019, 19, 1950038.	2.4	13
36	Vibration-Based Non-Destructive Evaluation of Internal Damage in Foam Cored Sandwich Structures		2

Using Wavelet Analysis. , 2019, 24, .

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37	Evaluation of Criticality of Self-Heating of Polymer Composites by Estimating the Heat Dissipation Rate. Mechanics of Composite Materials, 2018, 54, 53-60.	1.4	17
38	Evaluation of Structural Degradation of Polymeric Composites Subjected to Self-Heating by the Thermal Diffusivity Analysis. Arabian Journal for Science and Engineering, 2018, 43, 4541-4547.	3.0	6
39	Vibration-Based Damage Identification and Condition Monitoring in Mechanical Structures and Components. Shock and Vibration, 2018, 2018, 1-2.	0.6	3
40	Enhancement of shearography-based damage identification using best tree wavelet packet analysis. MATEC Web of Conferences, 2018, 204, 06002.	0.2	2
41	Analysis of defect detectability in polymeric composites using self-heating based vibrothermography. Composite Structures, 2018, 201, 760-765.	5.8	17
42	Spectroscopic evaluation of structural changes in composite materials subjected to self-heating effect. Composite Structures, 2018, 204, 192-197.	5.8	4
43	Self-heating based vibrothermography $\hat{a} \in$ A non-destructive testing method for polymeric composite structures. AIP Conference Proceedings, 2018, , .	0.4	1
44	A Concept of Thermographic Method for Non-Destructive Testing of Polymeric Composite Structures Using Self-Heating Effect. Sensors, 2018, 18, 74.	3.8	14
45	Design of the composite casing of microstrip antenna for the aerospace satellite. Aircraft Engineering and Aerospace Technology, 2018, 90, 788-805.	1.2	2
46	Variable Surface Temperature Distribution as a Criticality Indicator of the Self-Heating Effect in Composites. Advances in Materials Science, 2018, 18, 5-12.	1.0	1
47	Characterization of damage evolution during fatigue of composite structures accompanied with self-heating effect by means of acoustic emission. Journal of Vibroengineering, 2018, 20, 954-962.	1.0	5
48	Detection of structural changes in concrete using embedded ultrasonic sensors based on autoregressive model. Diagnostyka, 2018, 20, 103-110.	0.8	10
49	Efficiency assessment of wavelet transforms and wavelets for damage localization in beams using shearography. Diagnostyka, 2018, 19, 71-79.	0.8	2
50	Analysis of influence of fibre type and orientation on dynamic properties of polymer laminates for evaluation of their damping and self-heating. Science and Engineering of Composite Materials, 2017, 24, 387-399.	1.4	3
51	Criticality of self-heating in degradation processes of polymeric composites subjected to cyclic loading: A multiphysical approach. Archives of Civil and Mechanical Engineering, 2017, 17, 806-815.	3.8	31
52	Synthesis and testing of a conducting polymeric composite material for lightning strike protection applications. AIP Conference Proceedings, 2017, , .	0.4	8
53	Damage resistance of CSA-doped PANI/epoxy CFRP composite during passing the artificial lightning through the aircraft rivet. Engineering Failure Analysis, 2017, 82, 116-122.	4.0	19
54	Domination of self-heating effect during fatigue of polymeric composites. Procedia Structural Integrity, 2017, 5, 93-98.	0.8	14

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55	Lightning strike resistance of an electrically conductive CFRP with a CSA-doped PANI/epoxy matrix. Composite Structures, 2017, 181, 203-213.	5.8	26
56	Characterization of failure mechanisms of composite structures subjected to fatigue dominated by the self-heating effect. Composite Structures, 2017, 180, 1-8.	5.8	27
57	Modeling and synthesis of all-polymeric conducting composite material for aircraft lightning strike protection applications. Materials Today: Proceedings, 2017, 4, 8010-8015.	1.8	4
58	Evolution of a fracture mechanism in a polymeric composite subjected to fatigue with the self-heating effect. Procedia Structural Integrity, 2017, 5, 416-421.	0.8	2
59	Synthesis and characterization of the electrically conductive polymeric composite for lightning strike protection of aircraft structures. Composite Structures, 2017, 159, 773-783.	5.8	60
60	Localizing impact damage of composite structures with modified RAPID algorithm and non-circular PZT arrays. Archives of Civil and Mechanical Engineering, 2017, 17, 178-187.	3.8	33
61	Electrically conductive carbon fibre-reinforced composite for aircraft lightning strike protection. IOP Conference Series: Materials Science and Engineering, 2017, 201, 012008.	0.6	13
62	Enhancement of Damage Detectability in Aircraft Structures Using the Fusion of NDT Results. Fatigue of Aircraft Structures, 2017, 2017, 55-74.	0.3	2
63	Identification of Delamination in Composite Beams using the Fractal Dimension-Based Damage Identification Algorithm. Fatigue of Aircraft Structures, 2017, 2017, 5-16.	0.3	1
64	Generalized chemical distance distribution in all-sided critical percolation clusters. AIP Conference Proceedings, 2016, , .	0.4	1
65	Modeling and simulation of longwall scraper conveyor considering operational faults. Studia Geotechnica Et Mechanica, 2016, 38, 15-27.	0.5	12
66	Concept of a Conducting Composite Material for Lightning Strike Protection. Advances in Materials Science, 2016, 16, 32-46.	1.0	37
67	Lightning Strike Protection of Aircraft Composite Structures: Analysis and Comparative Study. Fatigue of Aircraft Structures, 2016, 2016, 49-54.	0.3	8
68	Modelling the electro-mechanical properties of PPy/epoxy conductive composites. Computational Materials Science, 2016, 113, 88-97.	3.0	13
69	The effect of reaction medium on the conductivity and morphology of polyaniline doped with camphorsulfonic acid. Synthetic Metals, 2016, 214, 45-49.	3.9	36
70	Multi-Objective Meta-Evolution Method for Large-Scale Optimization Problems. Studies in Computational Intelligence, 2016, , 165-182.	0.9	1
71	Analysis of critical percolation clusters of mixtures of conducting and dielectric polymers. Journal of Applied Mathematics and Computational Mechanics, 2016, 15, 59-69.	0.7	4
72	On the convergence of multicomplex M-J sets to the Steinmetz hypersolids. Journal of Applied Mathematics and Computational Mechanics, 2016, 15, 67-74.	0.7	2

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73	Percolation thresholds of 3D all-sided percolation clusters in non-cubic domains. Journal of Applied Mathematics and Computational Mechanics, 2016, 15, 63-69.	0.7	4
74	Evolution of Static and Dynamic Properties of Gfrp Laminates during Ageing in Deionized and Seawater. Advanced Composites Letters, 2015, 24, 096369351502400.	1.3	7
75	Nondestructive Damage Assessment of Composite Structures Based on Wavelet Analysis of Modal Curvatures: State-of-the-Art Review and Description of Wavelet-Based Damage Assessment Benchmark. Shock and Vibration, 2015, 2015, 1-19.	0.6	17
76	Automated identification and classification of internal defects in composite structures using computed tomography and 3D wavelet analysis. Archives of Civil and Mechanical Engineering, 2015, 15, 436-448.	3.8	30
77	Electrical percolation in composites of conducting polymers and dielectrics. Journal of Polymer Engineering, 2015, 35, 731-741.	1.4	24
78	Damage identification in aircraft composite structures: A case study using various non-destructive testing techniques. Composite Structures, 2015, 127, 1-9.	5.8	246
79	Stone impact damage identification in composite plates using modal data and quincunx wavelet analysis. Archives of Civil and Mechanical Engineering, 2015, 15, 251-261.	3.8	41
80	On a visualization of the convergence of the boundary of generalized Mandelbrot set to (n-1)-sphere. Journal of Applied Mathematics and Computational Mechanics, 2015, 14, 63-69.	0.7	5
81	Damage detection and classification in composite structure after water-jet cutting using computed tomography and wavelet analysis. , 2015, , 557-561.		2
82	Characterisation of Impact Damage of Composite Structures Using Wavelet-Based Fusion of Ultrasonic and Optical Images. Advanced Composites Letters, 2014, 23, 096369351402300.	1.3	2
83	Meta-optimization method for wavelet-based damage identification in composite structures. , 2014, , .		5
84	Vibration-based spatial damage identification in honeycomb-core sandwich composite structures using wavelet analysis. Composite Structures, 2014, 118, 385-391.	5.8	68
85	Damage assessment in composite plates using fractional wavelet transform of modal shapes with optimized selection of spatial wavelets. Engineering Applications of Artificial Intelligence, 2014, 30, 73-85.	8.1	38
86	Three-dimensional octonion wavelet transform. Journal of Applied Mathematics and Computational Mechanics, 2014, 13, 33-38.	0.7	4
87	Clustering of Delaminations in Composite Rotors Using Self-Organizing Maps. Advances in Intelligent Systems and Computing, 2014, , 149-159.	0.6	1
88	Structural Diagnostics of Composite Beams Using Optimally Selected Fractional B-spline Wavelets. Advances in Intelligent Systems and Computing, 2014, , 475-486.	0.6	1
89	Stress concentration at the circular hole of cyclically bent layered composite plate within the framework of a moment theory of thermoviscoelasticity. Journal of Applied Mathematics and Computational Mechanics, 2014, 13, 75-83.	0.7	1
90	Crack identification in composite elements with non-linear geometry using spatial wavelet transform. Archives of Civil and Mechanical Engineering, 2013, 13, 287-296.	3.8	26

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91	SiC Nanofibres Produced by the Combustion Synthesis as the Nanocomposites Fillers. Macromolecular Symposia, 2013, 327, 94-98.	0.7	3
92	Spatial damage identification in composite plates using multiwavelets. Journal of Applied Mathematics and Computational Mechanics, 2013, 12, 69-78.	0.7	3
93	On the symmetry of bioctonionic Julia sets. Journal of Applied Mathematics and Computational Mechanics, 2013, 12, 23-28.	0.7	2
94	Influence of heating rate on evolution of dynamic properties of polymeric laminates. Plastics, Rubber and Composites, 2012, 41, 233-239.	2.0	23
95	Thermal fatigue of polymeric composites under repeated loading. Journal of Reinforced Plastics and Composites, 2012, 31, 1037-1044.	3.1	20
96	Fatigue and Thermal Failure of Polymeric Composites Subjected to Cyclic Loading. Advanced Composites Letters, 2012, 21, 096369351202100.	1.3	19
97	Selfâ€heating of polymeric laminated composite plates under the resonant vibrations: Theoretical and experimental study. Polymer Composites, 2012, 33, 138-146.	4.6	34
98	Solution of plane Dirichlet problem using compactly supported 2D wavelet scaling functions. Scientific Research of the Institute of Mathematics and Computer Science, 2012, 11, 31-40.	0.2	3
99	The conception of the fatigue model for layered composites considering thermal effects. Archives of Civil and Mechanical Engineering, 2011, 11, 333-343.	3.8	11
100	Stationary Self-Heating of the Circular and Annular Composite Plates Hinged on the Boundary under Axisymmetric Cyclic Loading. Advanced Composites Letters, 2011, 20, 096369351102000.	1.3	1
101	Damage identification in composite plates using two-dimensional B-spline wavelets. Mechanical Systems and Signal Processing, 2011, 25, 3153-3167.	8.0	78
102	Evaluation of self-activating temperature influence on cracks initiation in GRP laminates. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 403-404.	0.2	1
103	Recent Research on Thermal Fatigue of Composite Elements of Transport Means. Key Engineering Materials, 0, 588, 243-248.	0.4	1
104	Faults diagnosis using self-organizing maps: A case study on the DAMADICS benchmark problem. , 0, , .		6
105	A Concept of Automatic Tuning of Longwall Scraper Conveyor Model. , 0, , .		2