Martin Hagara

List of Publications by Year
in descending order

36 papers	312 citations	9 h-index	16 g-index
		1039406	940134
37 all docs	37 docs citations	37 times ranked	242 citing authors

#	Article	IF	Citations
1	Experimental modal analysis performed by high-speed digital image correlation system. Measurement: Journal of the International Measurement Confederation, 2014, 50, 78-85.	2.5	63
2	A new procedure of modal parameter estimation for high-speed digital image correlation. Mechanical Systems and Signal Processing, 2017, 93, 66-79.	4.4	48
3	Analysis of the aspects of residual stresses quantification performed by 3D DIC combined with standardized hole-drilling method. Measurement: Journal of the International Measurement Confederation, 2019, 137, 238-256.	2.5	27
4	Investigation of Snake Robot Locomotion Possibilities in a Pipe. Symmetry, 2020, 12, 939.	1.1	19
5	Using High-speed Digital Image Correlation to Determine the Damping Ratio. Procedia Engineering, 2012, 48, 242-249.	1.2	15
6	Experimental Identification of Modal Parameters of Thin Metal Sheets by using of DIC. Procedia Engineering, 2012, 48, 180-188.	1.2	14
7	Influence of the Approach Direction on the Repeatability of an Industrial Robot. Applied Sciences (Switzerland), 2020, 10, 8714.	1.3	13
8	An Application of High-speed Digital Image Correlation in Determination of Modal Parameters. Acta Mechanica Slovaca, 2011, 15, 6-12.	0.1	11
9	Influence of Drift on Robot Repeatability and Its Compensation. Applied Sciences (Switzerland), 2021, 11, 10813.	1.3	11
10	Results and Experiences from the Application of Digital Image Correlation in Operational Modal Analysis. Acta Polytechnica Hungarica, 2013, 10, .	2.5	10
11	Methodology for Experimental Analysis of Pipeline System Vibration. Procedia Engineering, 2012, 48, 613-620.	1.2	8
12	Design of a Unique Device for Residual Stresses Quantification by the Drilling Method Combining the PhotoStress and Digital Image Correlation. Materials, 2021, 14, 314.	1.3	8
13	The Use of Optical Methods in the Analysis of the Areas with Stress Concentration. Strojnicky Casopis, 2018, 68, 61-76.	0.3	8
14	An Investigation of the Temperature Influence on a Shift of Natural Frequencies Using Digital Image Correlation. Applied Mechanics and Materials, 0, 611, 506-510.	0.2	6
15	New approach of fixation possibilities investigation for snake robot in the pipe. , 2015, , .		6
16	Q-STRESS v.1.0â€"a Tool for Determination of Stress Fields Using Digital Image Correlation Systems. Procedia Engineering, 2014, 96, 136-142.	1.2	5
17	The Use of Modan 3D in Experimental Modal Analysis. Applied Mechanics and Materials, 0, 486, 36-41.	0.2	4
18	The Influence of Facet Size on the Accuracy of Modal Parameters Determined by Digital Image Correlation Technique. Applied Mechanics and Materials, 2014, 611, 496-500.	0.2	4

#	Article	IF	Citations
19	The Influence of Sampling Frequency on the Results of Motion Analysis Performed by High-Speed Digital Image Correlation. Applied Mechanics and Materials, 2015, 816, 397-403.	0.2	4
20	Impact Assessment of Calibration Parameters on Accuracy Method of Digital Image Correlation. Acta Mechanica Slovaca, 2012, 16, 6-12.	0.1	4
21	Stress Analysis Performed in the Near Surrounding of Small Hole by a Digital Image Correlation Method. Acta Mechanica Slovaca, 2014, 18, 74-81.	0.1	4
22	The Use of the Experimental Optical Technique for Investigation of Shear Strains of the Samples Exposed to Shear Stress Beyond the Yield Point. Procedia Engineering, 2012, 48, 264-272.	1.2	3
23	Strain Fields Identification of Chosen Cycling Helmets Types by Their Impact Loading. Acta Mechanica Slovaca, 2012, 16, 22-30.	0.1	3
24	A Complex Review of the Possibilities of Residual Stress Analysis Using Moving 2D and 3D Digital Image Correlation System. Strojnicky Casopis, 2021, 71, 61-78.	0.3	3
25	A Comparison of Modern and Classical Experimental Methods of Mechanics in Strain Investigation. Applied Mechanics and Materials, 0, 611, 501-505.	0.2	2
26	Development of the Device with a High Positioning Accuracy Serving for Residual Stress Quantification using Optical Methods. Acta Mechanica Slovaca, 2019, 23, 24-29.	0.1	2
27	Influence of Different Random Pattern Creation Forms on the Results of Experimental Modal Analysis Performed by High-Speed Digital Image Correlation. Acta Mechanica Et Automatica, 2014, 8, 22-26.	0.3	2
28	The Knowledge Acquired by Using of Optical Methods by Strain Fields Investigation. Applied Mechanics and Materials, 0, 486, 141-146.	0.2	1
29	Modal Analysis of the Manipulator Arm on the Mobile Chassis. Applied Mechanics and Materials, 0, 611, 472-477.	0.2	1
30	The Analysis of Different Stochastic Patterns during Loading in Plastic Area Using DIC Method. Applied Mechanics and Materials, 0, 611, 490-495.	0.2	1
31	Stress Analysis Performed by Photoelasticity and Digital Image Correlation. Applied Mechanics and Materials, 2015, 816, 474-481.	0.2	1
32	The Influence of Facet Size and Filtering on the Results of Strain Fields' Investigation Performed on Small Surfaces Using Digital Image Correlation. Applied Mechanics and Materials, 0, 732, 179-182.	0.2	1
33	Identification of Coupled Mode Shapes Based on Complex Mode Indicator Function. Applied Mechanics and Materials, 0, 732, 183-186.	0.2	0
34	Nonlinearity in Oscillations of Large Displacement Pendulum. Applied Mechanics and Materials, 0, 827, 205-208.	0.2	0
35	Modal analysis of the washing machine heater. AIP Conference Proceedings, 2019, , .	0.3	0
36	Experimental Investigation of the Fatigue Lifespan of Anchor Bolts with Consideration of Loading History. Applied Sciences (Switzerland), 2021, 11, 11399.	1.3	0