Pavol Lengvarský

List of Publications by Year
in descending order

32 papers	188 citations	1163117 8 h-index	1125743 13 g-index
33 all docs	33 docs citations	33 times ranked	168 citing authors

#	Article	IF	Citations
1	Vibration and modal analysis of a rotating disc using high-speed 3D digital image correlation. Mechanical Systems and Signal Processing, 2019, 121, 201-214.	8.0	40
2	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.	5.0	27
3	Vibration of Single-Walled Carbon Nanotubes by Using Nonlocal Theory. American Journal of Mechanical Engineering, 2014, 2, 195-198.	0.4	17
4	Buckling of single-walled carbon nanotubes with and without defects. Journal of Mechanical Science and Technology, 2017, 31, 1825-1833.	1.5	14
5	Prediction of failures in steam boiler using quantification of residual stresses. Engineering Failure Analysis, 2020, 118, 104808.	4.0	12
6	Application of Advanced Measuring Methods for Identification of Stresses and Deformations of Automotive Structures. Applied Sciences (Switzerland), 2020, 10, 7510.	2.5	12
7	Experimental and Numerical Analysis of 60-Year-Old Sluice Gate Affected by Long-Term Operation. Materials, 2020, 13, 5201.	2.9	9
8	The Use of Optical Methods in the Analysis of the Areas with Stress Concentration. Strojnicky Casopis, 2018, 68, 61-76.	0.9	8
9	Bending Vibrations of Carbon Nanotubes by Using Nonlocal Theory. Procedia Engineering, 2014, 96, 21-27.	1.2	7
10	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
11	The Finite Element Analysis of High Precision Positioning System. Strojnicky Casopis, 2018, 68, 41-48.	0.9	6
12	Numerical Verification of a Full-field Deformation Analysis of a Specimen Loaded by Combined Loading. American Journal of Mechanical Engineering, 2014, 2, 307-311.	0.4	5
13	The computation of bending eigenfrequencies of single-walled carbon nanotubes based on the nonlocal theory. Mechanical Sciences, 2018, 9, 349-358.	1.0	4
14	Buckling Analysis of Hetero-Junction Carbon Nanotubes. Strojnicky Casopis, 2018, 68, 9-16.	0.9	4
15	Estimation of Material Properties of Carbon Nanotubes Using Finite Element Method. Strojnicky Casopis, 2019, 69, 7-14.	0.9	4
16	Design and fatigue analysis of an aluminium alloy aerodynamic wheel. International Journal of Vehicle Design, 2021, 85, 97.	0.3	3
17	The Use of Nonlocal Theory for Bending Vibrations of Single-Walled Carbon Nanotubes. Applied Mechanics and Materials, 2014, 611, 332-336.	0.2	2
18	Application of Finite Element Method for Analysis of Nanostructures. Acta Mechanica Et Automatica, 2017, 11, 116-120.	0.6	2

#	Article	IF	Citations
19	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.	0.6	2
20	Some Differential Equations of Elasticity and their Lie Point Symmetry Generators. Acta Mechanica Et Automatica, 2014, 8, 99-102.	0.6	1
21	Analysis of stress and deformation fields of shape complex beams. MATEC Web of Conferences, 2018, 157, 02037.	0.2	1
22	Modal Analysis of Axially Symmetric Structure. American Journal of Mechanical Engineering, 2014, 2, 265-269.	0.4	1
23	Spectral fatigue life for simple notched component. Manufacturing Technology, 2020, 20, 612-616.	1.4	1
24	Using of Air Natural Convection for Cooling of Casks with Spent Nuclear Fuel in Dry Storage System. Applied Mechanics and Materials, 2015, 816, 103-107.	0.2	0
25	Buckling analysis of graphene nanosheets by the finite element method. MATEC Web of Conferences, 2018, 157, 06002.	0.2	0
26	State assessment of stop gates of hydroelectric power plants. , 2019, , .		0
27	Modal analysis of the washing machine heater. AIP Conference Proceedings, 2019, , .	0.4	0
28	Design and strength analysis of C-hook for load using the finite element method. MATEC Web of Conferences, 2020, 313, 00034.	0.2	0
29	Possibilities of modelling the bolts in program ANSYS. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012021.	0.6	0
30	Stiffness Estimation and Equivalence of Boundary Conditions in FEM Models. Applied Sciences (Switzerland), 2021, 11, 1482.	2.5	0
31	Mechanical Properties and Eigenfrequencies of Graphene Sheets. Acta Mechanica Slovaca, 2017, 21, 26-32.	0.1	0
32	Experimental Investigation of the Fatigue Lifespan of Anchor Bolts with Consideration of Loading History. Applied Sciences (Switzerland), 2021, 11, 11399.	2.5	0