Michal Hajzman

List of Publications by Year
in descending order

41	250	1162889 8	996849 15
papers	citations	h-index	g-index

43	43	43	163
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonlinear dynamics of a cableâ€“pulley system using the absolute nodal coordinate formulation. Mechanics Research Communications, 2017, 82, 21-28.	1.0	48
2	Investigation of bearing clearance effects in dynamics of turbochargers. International Journal of Mechanical Sciences, 2017, 127, 62-72.	3.6	40
3	Experimental and numerical investigation of friction element dissipative effects in blade shrouding. Nonlinear Dynamics, 2015, 79, 1711-1726.	2.7	25
4	Effect of various analytical descriptions of hydrodynamic forces on dynamics of turbochargers supported by floating ring bearings. Tribology International, 2018, 126, 65-79.	3.0	18
5	Threshold stability curves for a nonlinear rotor-bearing system. Journal of Sound and Vibration, 2019, 442, 698-713.	2.1	18
6	Design of characteristics of air-pressure-controlled hydraulic shock absorbers in an intercity bus. Multibody System Dynamics, 2008, 19, 73-90.	1.7	14
7	Efficient computational approaches for analysis of thin and flexible multibody structures. Nonlinear Dynamics, 2021, 103, 2475-2492.	2.7	13
8	Nonlinear dynamics of flexible slender structures moving in a limited space with application in nuclear reactors. Nonlinear Dynamics, 2021, 104, 3561-3579.	2.7	11
9	On the Modelling of Contact Forces in the Framework of Rigid Body Dynamics. Manufacturing Technology, 2014, 14, 136-141.	0.2	8
10	Identification of harmful time harmonic interactions in a high power squirrel-cage traction machine. Applied Mathematical Modelling, 2014, 38, 6153-6169.	2.2	7
11	3D projection of the LuGre friction model adapted to varying normal forces. Multibody System Dynamics, 2022, 55, 267-291.	1.7	6
12	Computer Simulations of the Freight Wagon Laboratory Excitation. Mechanics Based Design of Structures and Machines, 2011, 39, 194-209.	3.4	5
13	Turbine Rotor Dynamics Models Considering Foundation and Stator Effects. Machines, 2022, 10, 77.	1.2	5
14	Modelling and simulation of rigid bodies transportation by means of rotating flexible rollers. Meccanica, 2012, 47, 455-468.	1.2	4
15	Dry-Friction Damping in Vibrating Systems, Theory and Application to the Bladed Disc Assembly. Mechanisms and Machine Science, 2019, , 169-259.	0.3	4
16	Fibre Spring-damper Computational Models in a Laboratory Mechanical System and Validation with Experimental Measurement. Discontinuity, Nonlinearity, and Complexity, 2017, 6, 513-523.	0.1	4
17	Investigation of a laboratory mechanical system with fibre and pulley. International Journal of Dynamics and Control, 2015, 3, 78-86.	1.5	3
18	Dynamical Analysis of a Cable Manipulator Using Multibody Approaches. Manufacturing Technology, 2017, 17, 151-157.	0.2	3

#	Article	IF	Citations
19	Computational Analysis of Dynamic Behaviour of Inverted Pendulum Attached Using Fibres. Differential Equations and Dynamical Systems, 2013, 21, 71-81.	0.5	2
20	Complex Modelling and Dynamical Analysis of Parallel Cable Mechanisms. Mechanisms and Machine Science, 2018, , 193-202.	0.3	2
21	Comparison of Detailed Belt - Cylinder Interaction Model with Classical Belt Friction Formula. Strojnicky Casopis, 2019, 69, 9-16.	0.3	2
22	MODELLING OF DYNAMIC BEHAVIOUR OF FIBRES AND CABLES. , 2020, , .		2
23	Modelling of rotating shafts with flexible disks. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 4050007-4050008.	0.2	1
24	Blade Vibration Suppression Using Friction Elements in Shrouding. , 2011, , .		1
25	Influence of the Excitation Amplitude on the Dynamic behaviour of an Inverted Pendulum Driven by Fibres. Procedia Engineering, 2012, 48, 568-577.	1.2	1
26	Approaches to Fibre Modelling in the Model of an Experimental Laboratory Mechanical System. Computational Methods in Applied Sciences (Springer), 2020, , 231-238.	0.1	1
27	Eigenvalue sensitivity and parametric optimization of the large rotating systems. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 79-80.	0.2	0
28	SENSITIVITY ANALYSIS OF THE INFLUENCE OF A TIRE CONTACT SURFACE SHAPE IN TROLLEYBUS VERTICAL DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2929-2942.	0.7	0
29	Nonlinear Dynamics of the Car Driving System with a Sequential Manual Transmission. Springer Proceedings in Mathematics and Statistics, 2016, , 49-58.	0.1	0
30	Various Strategies of Elastic Forces Evaluation in the Absolute Nodal Coordinate Formulation. Mechanisms and Machine Science, 2017, , 179-184.	0.3	0
31	Dynamic behaviour of rotors supported by fluid-film bearings operated close to fluid-induced instability. MATEC Web of Conferences, 2018, 148, 04003.	0.1	0
32	Investigation of dynamic acting of a technological equipment on a building construction. MATEC Web of Conferences, 2020, 313, 00016.	0.1	0
33	Multipoint Contact Approach to the Analysis of Interacting Flexible Bodies Vibration. Mechanisms and Machine Science, 2012, , 181-186.	0.3	0
34	Basic Optimization Methodology for the Design of Friction Damping in Blade Shrouds. , 2013, , .		0
35	APPROACHES TO THE CREATION OF MULTIBODY MODELS OF THE VVER 1000 NUCLEAR REACTOR CONTROL ASSEMBLY. , 2016, , .		0
36	IN-HOUSE MULTIBODY HUMAN MODEL BASED ON EULER PARAMETERS FOR THE FAST IMPACT SCENARIO CALCULATION. , 2016, , .		0

#	Article	IF	Citations
37	Multibody Model of the VVER 1000 Nuclear Reactor Control Assembly and Simulation of Its Moving Parts Drop. Mechanisms and Machine Science, 2018, , 254-263.	0.3	0
38	Application of Multibody Dynamics in the Modelling of a Limited-Slip Differential. Computational Methods in Applied Sciences (Springer), 2020, , 454-462.	0.1	0
39	On the Numerical Treatment of Nonlinear Flexible Multibody Systems with the Use of Quasi-Newton Methods. Computational Methods in Applied Sciences (Springer), 2020, , 332-339.	0.1	0
40	Non-Synchronous Vibration and Lock-in Regimes in Coupled Structures Using Reduced Models. , 2021, , .		0
41	Impact Dynamics in Four-Segment Tilting Pad Journal Bearings Subjected to Pad Fluttering. , 2021, , .		0