Piotr Czop

List of Publications by Year in descending order

28 papers	177 citations	1306789 7 h-index	1125271 13 g-index
32 all docs	32 docs citations	32 times ranked	143 citing authors

#	Article	IF	Citations
1	A high-frequency first-principle model of a shock absorber and servo-hydraulic tester. Mechanical Systems and Signal Processing, 2011, 25, 1937-1955.	4.4	49
2	Application of inverse linear parametric models in the identification of rail track irregularities. Archive of Applied Mechanics, 2011, 81, 1541-1554.	1.2	29
3	A feedwater heater model intended for model-based diagnostics of power plant installations. Applied Thermal Engineering, 2011, 31, 1357-1367.	3.0	17
4	Combined non-parametric and parametric approach for identification of time-variant systems. Mechanical Systems and Signal Processing, 2018, 103, 295-311.	4.4	16
5	Static validation of a model of a disc valve system used in shock absorbers. International Journal of Vehicle Design, 2010, 53, 317.	0.1	13
6	Vibration monitoring of CNC machinery using MEMS sensors. Journal of Vibroengineering, 2020, 22, 735-750.	0.5	11
7	Development of an optimization method for minimizing vibrations of a hydraulic damper. Simulation, 2013, 89, 1073-1086.	1.1	7
8	Presentation of a virtual power plant environment and its application with combined first-principle and data-driven models intended for the diagnostics of a power plant â€“ Part 1. Simulation, 2012, 88, 139-166.	1.1	6
9	Estimation of feedwater heater parameters based on a grey-box approach. International Journal of Applied Mathematics and Computer Science, 2011, 21, 703-715.	1.5	5
10	Presentation of a virtual power plant environment and its application with combined first-principle and data-driven models intended for the diagnostics of a power plant â€“ Part 2. Simulation, 2012, 88, 167-179.	1.1	4
11	Fatigue model of a disc valve system used in shock absorbers. International Journal of Heavy Vehicle Systems, 2017, 24, 327.	0.1	4
12	How to Build a Vibration Monitoring System on Your Own?. Applied Condition Monitoring, 2018, , 111-121.	0.4	4
13	A nonlinear, data-driven model applied in the design process of disc-spring valve systems used in hydraulic dampers. Simulation, 2013, 89, 419-431.	1.1	2
14	Optimization of a Shock Absorber Design Using Model-Based Approach. Advanced Materials Research, 0, 452-453, 1351-1355.	0.3	1
15	Fatigue model of a disc valve system used in shock absorbers. International Journal of Heavy Vehicle Systems, 2017, 24, 327.	0.1	1
16	Application of a Nonlinear Data-Driven Model to Rapid Design of Disc-Spring Valve Systems. Advanced Materials Research, 2012, 452-453, 1365-1369.	0.3	0
17	Optimization of a Hydraulic Damper Performance with the Use of Fluid-Structure Simulation. Advanced Materials Research, 0, 452-453, 1356-1360.	0.3	0
18	Application of inverse data-driven parametric models in the reconstruction of passenger vehicle wheel vertical movement under ride conditions. JVC/Journal of Vibration and Control, 2012, 18, 1133-1140.	1.5	0

#	Article	IF	Citations
19	Optimization techniques applied in a tuning process of a feedwater heaterâ€™s first-principle data-driven model. Simulation, 2013, 89, 1087-1098.	1.1	0
20	Supervised Classification Methods in Condition Monitoring of Rolling Element Bearings. Applied Condition Monitoring, 2018, , 133-145.	0.4	0
21	Modelling and System Identification of a Monotube Shock Absorber. Advances in Intelligent Systems and Computing, 2019, , 70-80.	0.5	0
22	Development and Tuning of a Simplified 1D Model for Generation of Transient States in Large Turbomachinery. Lecture Notes in Mechanical Engineering, 2020, , 541-554.	0.3	0
23	The Effects of the Aeration Phenomenon on the Performance of Hydraulic Shock Absorbers. Advances in Intelligent Systems and Computing, 2021, , 11-30.	0.5	0
24	Application of an Inverse Data-Driven Model for Reconstructing Wheel Movement Signals. Metrology and Measurement Systems, 2011, 18, .	1.4	0
25	Simulation of the Behavior of Disc-Spring Valve Systems with the Fuzzy Inference Systems and Artificial Neural Networks. Lecture Notes in Computer Science, 2012, , 634-642.	1.0	0
26	Particle Image Velocimetry Technique Applied to Flow Evaluation Through a Shock Absorber Intake Valve. Advances in Intelligent Systems and Computing, 2019, , 81-90.	0.5	0
27	Dynamic evaluation of a shock absorberwith the use of additional noncontact in-fluid laser measurementsof the intake base valve. Journal of Physics: Conference Series, 2022, 2184, 012058.	0.3	0
28	Validation of Fatigue Model of a Hydraulic Shock Absorber Equipped with Shim Stack Valves. Journal of Physics: Conference Series, 2022, 2184, 012057.	0.3	0