Åukasz WarguÅ‚a

List of Publications by Year
in descending order

Version: 2024-02-01

47 papers	652 citations	623188 14 h-index	642321 23 g-index
52 all docs	52 docs citations	52 times ranked	378 citing authors

#	Article	IF	Citations
1	Legal regulations of restrictions of air pollution made by non-road mobile machineryâ€"the case study for Europe: a review. Environmental Science and Pollution Research, 2018, 25, 3243-3259.	2.7	56
2	Evaluation of the Thermal Stability and Surface Characteristics of Thermoplastic Polyurethane V-Belt. Materials, 2020, 13, 1502.	1.3	38
3	Impact of Compressed Natural Gas (CNG) Fuel Systems in Small Engine Wood Chippers on Exhaust Emissions and Fuel Consumption. Energies, 2020, 13, 6709.	1.6	37
4	Impact of a Hybrid Assisted Wheelchair Propulsion System on Motion Kinematics during Climbing up a Slope. Applied Sciences (Switzerland), 2020, 10, 1025.	1.3	31
5	Fuel Consumption Test Results for a Self-Adaptive, Maintenance-Free Wood Chipper Drive Control System. Applied Sciences (Switzerland), 2020, 10, 2727.	1.3	31
6	Influence of Innovative Woodchipper Speed Control Systems on Exhaust Gas Emissions and Fuel Consumption in Urban Areas. Energies, 2020, 13, 3330.	1.6	28
7	Impact of Number of Operators and Distance to Branch Piles on Woodchipper Operation. Forests, 2020, 11, 598.	0.9	26
8	Energy consumption of the wood size reduction processes with employment of a low-power machines with various cutting mechanisms. Renewable Energy, 2022, 181, 630-639.	4.3	26
9	The application of the optical system ATOS II for rapid prototyping methods of non-classical models of cogbelt pulleys. MATEC Web of Conferences, 2018, 157, 01010.	0.1	25
10	Influence of the Use of Liquefied Petroleum Gas (LPG) Systems in Woodchippers Powered by Small Engines on Exhaust Emissions and Operating Costs. Energies, 2020, 13, 5773.	1.6	24
11	Reduction in Operating Costs and Environmental Impact Consisting in the Modernization of the Low-Power Cylindrical Wood Chipper Power Unit by Using Alternative Fuel. Energies, 2020, 13, 2995.	1.6	24
12	The Toxicological Testing and Thermal
Decomposition of Drive and Transport Belts Made
of Thermoplastic Multilayer Polymer Materials. Polymers, 2020, 12, 2232.	2.0	23
13	An analytical model of the demand for propulsion torque during manual wheelchair propelling. Disability and Rehabilitation: Assistive Technology, 2021, 16, 9-16.	1.3	15
14	Determination of maximum torque during carpentry waste comminution.. Wood Research, 2020, 65, 771-784.	0.2	15
15	Experimental Studies of the Size Contact Area of a Summer Tire as a Function of Pressure and the Load. Procedia Engineering, 2017, 177, 347-351.	1.2	14
16	Wear evaluation of elements of V-belt transmission with the application of optical microscope. MATEC Web of Conferences, 2018, 157, 01009.	0.1	14
17	Magnetorheological Elastomer Stress Relaxation Behaviour during Compression: Experiment and Modelling. Materials, 2020, 13, 4795.	1.3	14
18	Evaluation of the Biomechanical Parameters of Human-Wheelchair Systems during Ramp Climbing with the Use of a Manual Wheelchair with Anti-Rollback Devices. Applied Sciences (Switzerland), 2020, 10, 8757.	1.3	14

#	Article	IF	Citations
19	Computer Aided Modeling of Wood Chips Transport by Means of a Belt Conveyor with Use of Discrete Element Method. Applied Sciences (Switzerland), 2020, 10, 9091.	1.3	14
20	Chemical compounds released by combustion of polymer composites flat belts. Scientific Reports, 2021, 11, 8269.	1.6	14
21	Symmetric Nature of Stress Distribution in the Elastic-Plastic Range of Pinus L. Pine Wood Samples Determined Experimentally and Using the Finite Element Method (FEM). Symmetry, 2021, 13, 39.	1.1	14
22	Development of methods for performing the maximum voluntary contraction (MVC) test. MATEC Web of Conferences, 2018, 157, 05015.	0.1	13
23	The Symmetric Nature of the Position Distribution of the Human Body Center of Gravity during Propelling Manual Wheelchairs with Innovative Propulsion Systems. Symmetry, 2021, 13, 154.	1.1	13
24	Geometric Specification of Non-Circular Pulleys Made with Various Additive Manufacturing Techniques. Materials, 2021, 14, 1682.	1.3	12
25	Influence of Measurement Methodologies for the Volumetric Air Flow Rate of Mobile Positive Pressure Fans on Drive Unit Performance. Energies, 2022, 15, 3953.	1.6	11
26	Problems of dynamometer construction for wheelchairs and simulation of push motion. MATEC Web of Conferences, 2019, 254, 01006.	0.1	10
27	The determination of the rolling resistance coefficient of a passenger vehicle with the use of selected road tests methods. MATEC Web of Conferences, 2019, 254, 04006.	0.1	9
28	The Problem of Removing Seaweed from the Beaches: Review of Methods and Machines. Water (Switzerland), 2021, 13, 736.	1.2	9
29	The characteristics analysis of torque and rotation speed of working unit of branch grinder - introductory research. MATEC Web of Conferences, 2018, 157, 01021.	0.1	8
30	Influence of non-commercial fuel supply systems on small engine SI exhaust emissions in relation to European approval regulations. Environmental Science and Pollution Research, 2022, 29, 55928-55943.	2.7	8
31	An Analytical Modelling of Demand for Driving Torque of a Wheelchair with Electromechanical Drive. Energies, 2021, 14, 7315.	1.6	7
32	The Impact of the Modernization of the Injection-ignition System on the Parameters of Motion of the Motorcycle. Procedia Engineering, 2017, 177, 393-398.	1.2	6
33	Wear evaluation study of the multiple grooved pulleys with optical method. MATEC Web of Conferences, 2019, 254, 01004.	0.1	6
34	The Impact of the Human Body Position Changes During Wheelchair Propelling on Motion Resistance Force: A Preliminary Study. Journal of Biomechanical Engineering, 2021, 143, .	0.6	6
35	The Symmetry of the Muscle Tension Signal in the Upper Limbs When Propelling a Wheelchair and Innovative Control Systems for Propulsion System Gear Ratio or Propulsion Torque: A Pilot Study. Symmetry, 2022, 14, 1002.	1.1	5
36	Analysis of the Influence of Disturbance of Vacuum Stream Signal on Steering Process of the Spark-ignition Combustion Engine. Procedia Engineering, 2017, 177, 399-404.	1.2	4

#	Article	IF	Citations
37	The Investigations of Dynamic Characteristics of a Stepper Motor. Procedia Engineering, 2017, 177, 318-323.	1.2	4
38	Slip risk analysis on the surface of floors in public utility buildings. Journal of Building Engineering, 2022, 54, 104643.	1.6	4
39	The effects of ArUco marker velocity and size on motion capture detection and accuracy in the context of human body kinematics analysis. Czasopismo Techniczne, 2020, , 1-10.	0.2	3
40	The determination of the parameters of wheelchair driving with the use of a test bench. AUTOBUSY â€“ Technika Eksploatacja Systemy Transportowe, 2019, 20, 299-302.	0.0	2
41	Innovations in chainsaws utilised as mechanical rescue devices. Safety & Fire Technology, 2020, 55, 142-153.	0.1	2
42	Comparative Analysis of Tests under Real Conditions and CFD Model for Selected Operation Parameters of a Mobile Fan Used by Fire Protection Units. MATEC Web of Conferences, 2022, 357, 02011.	0.1	2
43	Describing a Set of Points with Elliptical Areas: Mathematical Description and Verification on Operational Tests of Technical Devices. Applied Sciences (Switzerland), 2022, 12, 445.	1.3	1
44	Directions of Development of Adaptive Systems to the Operating Conditions of Mobile Wood Chopping Machines with Low Power Engines. MATEC Web of Conferences, 2022, 357, 04002.	0.1	1
45	Development trends in belt transmissions with V-belt. MATEC Web of Conferences, 2022, 357, 01003.	0.1	1
46	Smart materials activation analysis on example of nickel and titanium alloys. MATEC Web of Conferences, 2018, 157, 07015.	0.1	0
47	Experimental Research on Kinematic Features of Agricultural Tractor Movement on Asphalt Pavement. MATEC Web of Conferences, 2022, 357, 05005.	0.1	0