

Milan Banic

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

220
citations

1478505

6
h-index

1058476

14
g-index

39
all docs

39
docs citations

39
times ranked

229
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration response of rigid rotor in unloaded rolling element bearing. International Journal of Mechanical Sciences, 2010, 52, 1176-1185.	6.7	53
2	Prediction of heat generation in rubber or rubber-metal springs. Thermal Science, 2012, 16, 527-539.	1.1	43
3	INTELLIGENT MACHINE VISION BASED RAILWAY INFRASTRUCTURE INSPECTION AND MONITORING USING UAV. Facta Universitatis, Series: Mechanical Engineering, 2019, 17, 357.	4.6	38
4	Artificial Intelligence for Obstacle Detection in Railways: Project SMART and Beyond. Communications in Computer and Information Science, 2020, , 44-55.	0.5	10
5	Thermomechanical finite element analysis of hot water boiler structure. Thermal Science, 2012, 16, 387-398.	1.1	8
6	Advanced thermal camera based system for object detection on rail tracks. Thermal Science, 2018, 22, 1551-1561.	1.1	8
7	SMART on-board multi-sensor obstacle detection system for improvement of rail transport safety. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2022, 236, 623-636.	2.0	6
8	Recommendations for the estimation of the strength of the railway wheel set press fit joint. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2012, 226, 48-61.	2.0	5
9	Construction optimization of hot water fire-tube boiler using thermomechanical finite element analysis. Thermal Science, 2018, 22, 1511-1523.	1.1	5
10	Procedure for the Selection of Rubber Compound in Rubber-Metal Springs for Vibration Isolation. Polymers, 2020, 12, 1737.	4.5	4
11	Use cases for obstacle detection and track intrusion detection systems in the context of new generation of railway traffic management systems. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2022, 236, 149-158.	2.0	4
12	Evaluation of Mechanical Properties of the Two PVC Conveyor Belts. Communications - Scientific Letters of the University of Zilina, 2018, 20, 47-51.	0.6	4
13	The effect of friction and impact angle on the spermatozoa-oocyte local contact dynamics. Journal of Theoretical Biology, 2016, 393, 32-42.	1.7	3
14	RADIAL FORCE IMPACT ON THE FRICTION COEFFICIENT AND TEMPERATURE OF A SELF-LUBRICATING PLAIN BEARING. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 427.	4.6	3
15	Prediction of Dynamic Response of Vibration Isolated Railway Obstacle Detection System. Acta Polytechnica Hungarica, 2022, 19, 51-64.	2.9	3
16	Analysis of the Safety Level of Obstacle Detection in Autonomous Railway Vehicles. Acta Polytechnica Hungarica, 2022, 19, 187-205.	2.9	3
17	Dealing with Low Quality Images in Railway Obstacle Detection System. Applied Sciences (Switzerland), 2022, 12, 3041.	2.5	3
18	Load capacity of worm gear transmission from aspect of maximal use of available resources. MATEC Web of Conferences, 2017, 121, 01009.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Consideration of the use of artificial intelligence methods for determining the friction coefficient of lubricated sliding bearings. IOP Conference Series: Materials Science and Engineering, 2018, 393, 012063.	0.6	2
20	DETERMINATION OF RESIDUAL STRESS IN THE RAIL WHEEL DURING QUENCHING PROCESS BY FEM SIMULATION. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 413.	4.6	2
21	Integration of Computer Vision and Convolutional Neural Networks in the System for Detection of Rail Track and Signals on the Railway. Applied Sciences (Switzerland), 2022, 12, 6045.	2.5	2
22	Crossed Helical Gears with Wheels Manufactured from Sintered Steel with Pyrohydrolysis. Advanced Materials Research, 0, 633, 197-208.	0.3	1
23	Thermal Analysis of a Crossed Helical Gearbox Using FEM. Transactions of Famena, 2020, 44, 67-78.	0.6	1
24	Experimental and numerical stress and strain analysis of the boiler reversing chamber tube plate. Thermal Science, 2022, 26, 2135-2145.	1.1	1
25	BERGSTRÄ–M-BOYCE VS. HYPERELASTIC RUBBER MODELS IN STRUCTURAL ANALYSIS OF TIRES. Facta Universitatis, Series: Mechanical Engineering, 2021, 19, 767.	4.6	1
26	Wear load capacity of crossed helical gears with wheel made from sintered steel. Science of Sintering, 2015, 47, 153-163.	1.4	1
27	Distribution of generated friction heat at wheel-rail contact during wheel slipping acceleration. Thermal Science, 2016, 20, 1561-1571.	1.1	1
28	Load Capacity of Cylindrical Worm Gears According to DIN 3996-2012. Machine Design, 2017, 9, 45-50.	0.0	1
29	PREDICTION OF TEMPERATURE DISTRIBUTION IN THE WORM GEAR MESHING. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 329.	4.6	1
30	Importance And Role Of Competence In Professional Career Of Product Develop Engineers. ACTA Universitatis Cibiniensis, 2015, 66, 114-118.	0.1	0
31	Technical Solution of the Drive System for Mixing Dough Machine. MATEC Web of Conferences, 2019, 290, 08013.	0.2	0
32	Technical solution of the under locomotives visual inspection system. IOP Conference Series: Materials Science and Engineering, 2019, 659, 012054.	0.6	0
33	Extension of the steel sieve during the spherical gun-powder screening. IOP Conference Series: Materials Science and Engineering, 2019, 659, 012040.	0.6	0
34	The New Engineering Education Model on University of NiÅ. Mechanisms and Machine Science, 2013, , 729-741.	0.5	0
35	Load Capacity of Worm Gears. Mechanisms and Machine Science, 2013, , 141-153.	0.5	0
36	Methods and Principles of Determining the Footwear and Floor Tribological Characteristics. Tribology in Industry, 2017, 39, 340-348.	1.1	0