Lukas Smetanka

List of Publications by Year
in descending order

23 papers	188 citations	1040056 9 h-index	1058476 14 g-index
23 all docs	23 docs citations	23 times ranked	71 citing authors

#	Article	IF	Citations
1	Global Sensitivity Analysis of Chosen Harmonic Drive Parameters Affecting Its Lost Motion. Materials, 2021, 14, 5057.	2.9	12
2	OPTIMISATION PROCEDURE OF INNER GEOMETRY IN SPHERICAL ROLLER BEARINGS WITH REGARD TO THEIR DURABILITY. Scientific Journal of Silesian University of Technology Series Transport, 2020, 106, 173-181.	0.4	7
3	Creation of Calculation 3D Model of Slewing Bearing. Lecture Notes in Mechanical Engineering, 2020, , 149-157.	0.4	5
4	Strength analysis of slewing bearings. Transportation Research Procedia, 2019, 40, 891-897.	1.5	11
5	Investigation of strength conditions of the new wagon prototype type Zans. MATEC Web of Conferences, 2019, 254, 02037.	0.2	9
6	Investigation of railway wheelset profile wear by using computer simulation. MATEC Web of Conferences, 2019, 254, 02041.	0.2	2
7	Designing and optimizing extractors for automated dispensers. IOP Conference Series: Materials Science and Engineering, 2019, 659, 012038.	0.6	0
8	Contact pressure analysis of slewing rings. IOP Conference Series: Materials Science and Engineering, 2019, 659, 012005.	0.6	0
9	Dynamic analysis of force interactions in rolling bearings components. AIP Conference Proceedings, 2019, , .	0.4	1
10	Driveability prediction in design process of freight wagon underframe. AIP Conference Proceedings, 2019, , .	0.4	3
11	Computer aided simulation analysis for wear investigation of railway wheel running surface. Diagnostyka, 2019, 20, 63-68.	0.8	8
12	The influence of the construction stiffness in the roller bearings arrangement with the line contact on their durability. IOP Conference Series: Materials Science and Engineering, 2018, 393, 012053.	0.6	0
13	Wear research of railway wheelset profile by using computer simulation. MATEC Web of Conferences, 2018, 157, 03017.	0.2	18
14	Computer aided structural analysis of newly developed railway bogie frame. MATEC Web of Conferences, 2018, 157, 02051.	0.2	34
15	Structural Analysis of a Main Construction Assemblies of the New Wagon Prototype Type Zans. Manufacturing Technology, 2018, 18, 510-517.	1.4	10
16	Strength Investigation of Main Frame in New "Track friendly" Railway Bogie. Manufacturing Technology, 2018, 18, 315-320.	1.4	4
17	Strength Analysis of a Freight Bogie Frame under the Defined Load Cases. Communications - Scientific Letters of the University of Zilina, 2018, 20, 58-62.	0.6	0
18	Development of Modern Railway Bogie for Broad Track Gauge - Bogie Frame Assessment. Manufacturing Technology, 2017, 17, 250-256.	1.4	12

#	Article	IF	Citations
19	Generating Random Pattern for Homogenization of Fiber Reinforced Composites Using Memetic Algorithm. Manufacturing Technology, 2017, 17, 354-360.	1.4	2
20	Analysis of Contact Stresses of Theoretical and Worn Profile by Using Computer Simulation. Manufacturing Technology, 2017, 17, 580-585.	1.4	26
21	Homogenization of Fibers Reinforced Composite Materials for Simulation Analysis. Manufacturing Technology, 2015, 15, 914-920.	1.4	20
22	Stiffness analysis of slewing bearings. IOP Conference Series: Materials Science and Engineering, 0, 393, 012060.	0.6	3
23	Mathematical algorithm for calculating an optimal axial preload of rolling bearings with the respect to their life. IOP Conference Series: Materials Science and Engineering, 0, 393, 012055.	0.6	1