

Krzysztof TalaÅka

List of Publications by Year in descending order

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docs citations

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192
citing authors

#	ARTICLE	IF	CITATIONS
1	The Determination of Mechanical Properties of Magnetorheological Elastomers (MREs). <i>Procedia Engineering</i> , 2017, 177, 324-330.	1.2	54
2	Estimation of the perforation force for polymer composite conveyor belts taking into consideration the shape of the piercing punch. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 2539-2561.	1.5	48
3	Determination of the effective geometrical features of the piercing punch for polymer composite belts. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 315-332.	1.5	37
4	Analysis of the influence of the cutting edge geometry on parameters of the perforation process for conveyor and transmission belts. <i>MATEC Web of Conferences</i> , 2018, 157, 01022.	0.1	30
5	The Study of Mechanical Properties of Natural Polymers in the Compacting Process. <i>Procedia Engineering</i> , 2017, 177, 411-418.	1.2	26
6	Modelling mechanical properties of the multilayer composite materials with the polyamide core. <i>MATEC Web of Conferences</i> , 2018, 157, 02052.	0.1	26
7	Influence of the Value of Limit Densification Stress on the Quality of the Pellets During the Agglomeration Process of CO ₂ . <i>Procedia Engineering</i> , 2016, 136, 269-274.	1.2	25
8	Dry Ice Compaction in Piston Extrusion Process. <i>Acta Mechanica Et Automatica</i> , 2017, 11, 313-316.	0.3	25
9	Experimental research on biomass cutting process. <i>MATEC Web of Conferences</i> , 2018, 157, 07016.	0.1	25
10	The influence of the piercing punch profile on the stress distribution on its cutting edge. <i>MATEC Web of Conferences</i> , 2019, 254, 02001.	0.1	21
11	Butt Welding of Round Drive Belts. <i>Acta Mechanica Et Automatica</i> , 2018, 12, 115-126.	0.3	20
12	Investigation of Internal Friction of Agglomerated Dry Ice. <i>Procedia Engineering</i> , 2016, 136, 275-279.	1.2	19
13	Contact Problems Between the Hub and the Shaft with a Three-angular Shape of Cross-section for Different Angular Positions. <i>Procedia Engineering</i> , 2014, 96, 50-58.	1.2	18
14	Agglomeration of Natural Fibrous Materials in Perpetual Screw Technique – A Challenge for Designer. <i>Procedia Engineering</i> , 2016, 136, 63-69.	1.2	18
15	Influence of the Compression Length on the Ultimate Stress in the Process of Mechanical Agglomeration of Dry Ice. <i>Procedia Engineering</i> , 2017, 177, 363-368.	1.2	18
16	Multi-angularity - Identification of Parameters and Compatibility Conditions of the Axisymmetric Connection with form Deviations. <i>Procedia Engineering</i> , 2017, 177, 431-438.	1.2	16
17	Influence of geometrical parameters of convergent sleeve on the value of limit stress. <i>MATEC Web of Conferences</i> , 2018, 157, 05006.	0.1	16
18	Mathematical Model Describing the Influence of Geometrical Parameters of Multichannel Dies on the Limit Force of Dry Ice Extrusion Process. <i>Materials</i> , 2020, 13, 3317.	1.3	15

#	ARTICLE	IF	CITATIONS
19	Contact Problems between the Hub and the Shaft with a Four-Angular Shape of Cross-Section for Different Angular Positions. <i>Applied Mechanics and Materials</i> , 0, 816, 54-62.	0.2	14
20	Analysis of the Energy Efficiency of the Shredded Wood Material Densification Process. <i>Procedia Engineering</i> , 2017, 177, 352-357.	1.2	14
21	Magnetorheological Elastomer Stress Relaxation Behaviour during Compression: Experiment and Modelling. <i>Materials</i> , 2020, 13, 4795.	1.3	14
22	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). <i>Symmetry</i> , 2021, 13, 39.	1.1	14
23	Evaluation of the belt punching process efficiency based on the resistance force of the compressed material. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 717-727.	1.5	12
24	Evaluation of the possibility of using the Drucker-Prager-Cap model in simulations of the densification process of shredded natural materials. <i>MATEC Web of Conferences</i> , 2019, 254, 02018.	0.1	11
25	The influence of the limit stress value on the sublimation rate during the dry ice densification process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 776, 012072.	0.3	10
26	Application of the Mohr-Coulomb model for simulating the biomass compaction process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 776, 012066.	0.3	10
27	Static Compression Tests of Concentrated Crystallized Carbon Dioxide. <i>Applied Mechanics and Materials</i> , 0, 816, 490-495.	0.2	9
28	Method of Determination of Safety Factor on Example of Selected Structure. <i>Procedia Engineering</i> , 2016, 136, 50-55.	1.2	9
29	Determination of the Torque Characteristics of a Stepper Motor. <i>Procedia Engineering</i> , 2016, 136, 375-379.	1.2	9
30	Vacuum conveyor belts perforation " methods, materials and problems. , 2017, , 1138-1142.	0.2	9
31	Process Analysis of the Hot Plate Welding of Drive Belts. <i>Acta Mechanica Et Automatica</i> , 2020, 14, 84-90.	0.3	8
32	Influence of the Type of Acceleration Characteristic of the Stepping Motor for Efficient Power Usage. <i>Procedia Engineering</i> , 2016, 136, 370-374.	1.2	6
33	Influence of Construction Mass Distribution on the Walking Robot's Gait Stability. <i>Procedia Engineering</i> , 2017, 177, 419-424.	1.2	6
34	Damping in magnetorheological elastomers under compressive stress. <i>MATEC Web of Conferences</i> , 2019, 254, 06002.	0.1	6
35	Designing of the Electromechanical Drive for Automated Hot Plate Welder Using Load Optimization with Genetic Algorithm. <i>Materials</i> , 2022, 15, 1787.	1.3	6
36	Modelling the Belt Perforation Process with the Piercing Punch and the Die in the Context of the Construction of the Punching Dies. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 647, 012013.	0.3	5

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37	The Cam-Clay model in the application of technological process modeling. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012067.	0.3	5
38	A Coupled Eulerian-Lagrangian Simulation and Tool Optimization for Belt Punching Process with a Single Cutting Edge. Materials, 2021, 14, 5406.	1.3	5
39	An Approach to Identifying Phenomena Accompanying Micro and Nanoparticles in Contact With Irregular Vessel Walls. IEEE Transactions on Nanobioscience, 2017, 16, 463-475.	2.2	4
40	Identification of Phenomena Accompanying the Process of Compressing Natural Polymers. Procedia Engineering, 2017, 177, 369-374.	1.2	4
41	Cooperation of axisymmetric connection elements under dynamic load. MATEC Web of Conferences, 2018, 157, 02017.	0.1	4
42	The application of the Finite Element Method analysis in the process of designing the punching die for belt perforation. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012057.	0.3	4
43	Analysis of the process of wood plasticization by hot rolling. Journal of Theoretical and Applied Mechanics, 0, , 503.	0.2	4
44	Computational methodology for drug delivery to the inner ear using magnetic nanoparticle aggregates. Computer Methods and Programs in Biomedicine, 2022, 221, 106860.	2.6	4
45	Study of the prototype mechanism of height adjustment of the bed in hospital bed. MATEC Web of Conferences, 2018, 157, 02028.	0.1	3
46	Testing of a force sensor used to measure the briquetting process parameters of lignocellulosic materials. MATEC Web of Conferences, 2019, 254, 05012.	0.1	3
47	Analysis of the guiding column and sleeve cooperation in the linear slide bearing of the punching die head-punch block. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012055.	0.3	3
48	Issues with Belt Guidance and Device Controls in the Automated Conveyor and Drive Belt Perforation Process. IOP Conference Series: Materials Science and Engineering, 2021, 1016, 012018.	0.3	3
49	Comparative Analysis of Polyurethane Drive Belts with Different Cross-Section Using Thermomechanical Tests for Modeling the Hot Plate Welding Process. Materials, 2021, 14, 3826.	1.3	3
50	Experimental approach to modeling of the plasticizing operation in the hot plate welding process. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	3
51	The Evaluation of Form Deviations During Teeth Manufacturing of Gear Rings. Procedia Engineering, 2014, 96, 44-49.	1.2	2
52	Modelling Geometric Properties in Construction of Special Devices. Procedia Engineering, 2017, 177, 425-430.	1.2	2
53	The directions of the development of the methods for designing the geometric form of mechanical structures. MATEC Web of Conferences, 2019, 254, 02034.	0.1	2
54	Modelling and static stability analyses of the hexa-quad bimorph walking robot. MATEC Web of Conferences, 2019, 254, 02029.	0.1	2

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55	Concept of the Hexa-Quad Bimorph Walking Robot and the Design of its Prototype. Acta Mechanica Et Automatica, 2018, 12, 60-65.	0.3	2
56	Functional and construction indicator for the briquetting process of lignocellulosic materials. MATEC Web of Conferences, 2019, 254, 05011.	0.1	1
57	Testing of a torque sensor used to measure the parameters of the briquetting process of lignocellulosic materials. MATEC Web of Conferences, 2019, 254, 05013.	0.1	1
58	Analysis of threaded connections under impact load. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012052.	0.3	1
59	Conventional Selection of Mechanical Fasteners for Flat Belts. Applied Sciences (Switzerland), 2021, 11, 2916.	1.3	1
60	Computer analysis of insect-like robot leg structure – Part 1 – Static finite-element analysis. Journal of Mechanical and Transport Engineering, 2016, , 53-62.	0.2	1
61	Computer analysis of insect-like robot leg structure – Part 2 – Kinematic and dynamic analyses. Journal of Mechanical and Transport Engineering, 2016, , 63-75.	0.2	1
62	Model of the pressing and drying system of organic material. IOP Conference Series: Materials Science and Engineering, 2021, 1199, 012099.	0.3	1
63	Numerical Modeling of the Mechanical Characteristics of the Magnetorheological Elastomers. MATEC Web of Conferences, 2022, 357, 06001.	0.1	1
64	Adjustment of the Distance of Objects to the Microsoft Kinect Device Fitted with Nyko Zoom Attachment Used in a Three-axis Manipulator. Procedia Engineering, 2017, 177, 387-392.	1.2	0
65	Design problems of axisymmetric connections in the aspect of machine engineering drawings. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012034.	0.3	0
66	The design issues of rolling bearing assemblies. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012054.	0.3	0
67	Numerical analysis of thin-walled component structure. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012047.	0.3	0
68	Self-excited vibrations in the off-road machines. , 2019, , 574-576.	0.2	0
69	Analysis of Wedge Lock Washer using the Finite Element Method. MATEC Web of Conferences, 2022, 357, 02025.	0.1	0
70	The Concept of Structure a Flexible Design and Manufacturing Method Focused on the Individual Production of Grippers. MATEC Web of Conferences, 2022, 357, 01008.	0.1	0
71	Finite Element Analysis of the Axially Non-symmetrical Piercing Punches Performance for Belt Perforation. MATEC Web of Conferences, 2022, 357, 02001.	0.1	0