

Katarina Monkova

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

2,198
citations

623734

14
h-index

223800

46
g-index

103
all docs

103
docs citations

103
times ranked

2676
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of 3D-Printed PLA Structure on Sound Reflection Properties. <i>Polymers</i> , 2022, 14, 413.	4.5	14
2	Development and analyses of a lever system for a newly designed self-equalising thrust bearing. <i>Engineering Failure Analysis</i> , 2022, 137, 106215.	4.0	1
3	Research of Resistance of Selected Materials to Abrasive Wear to Increase the Ploughshare Lifetime. <i>Metals</i> , 2022, 12, 940.	2.3	11
4	Optimal cutting parameter specification of newly designed milling tools based on the frequency monitoring. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 777-794.	3.0	6
5	Effect of Surface Modification and Standoff Distance on Hydrodynamic Ductile Erosion. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 111-119.	0.4	0
6	Mechanical Vibration Damping and Compression Properties of a Lattice Structure. <i>Materials</i> , 2021, 14, 1502.	2.9	20
7	Study of the influence of surface treatment on the wear development under quasi-static loading of the levers of a newly designed thrust bearing. <i>Engineering Failure Analysis</i> , 2021, 124, 105383.	4.0	6
8	Natural Frequencies of a Simple 3D Printed Lattice Structure. , 2021, , .		1
9	Design of the levers at the development of new self-equalizing thrust bearings. <i>Procedia Structural Integrity</i> , 2021, 31, 92-97.	0.8	2
10	Strength Calculation and Optimization of Boat Crane. <i>Lecture Notes in Networks and Systems</i> , 2021, , 35-52.	0.7	0
11	Flexible Manufacturing System Simulation and Optimization. <i>Lecture Notes in Networks and Systems</i> , 2021, , 53-64.	0.7	1
12	Influence of the material volume of a lattice structure on bending properties. <i>MATEC Web of Conferences</i> , 2021, 349, 04003.	0.2	1
13	Innovative Relations within the Software Application for Industry 4.0. <i>Procedia CIRP</i> , 2021, 104, 951-956.	1.9	0
14	Numerical Simulation of Aeroelastic Interaction Between Gas-Liquid Flow and Deformable Elements in Modular Separation Devices. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 765-774.	0.4	35
15	Durability and tool wear investigation of HSSE-PM milling cutters within long-term tests. <i>Engineering Failure Analysis</i> , 2020, 108, 104348.	4.0	8
16	Effect of the Pore Shape and Size of 3D-Printed Open-Porous ABS Materials on Sound Absorption Performance. <i>Materials</i> , 2020, 13, 4474.	2.9	11
17	Effects of Reinforcement Ratios and Sintering Temperatures on the Mechanical Properties of Titanium Nitride/Nickel Composites. <i>Materials</i> , 2020, 13, 4473.	2.9	0
18	Tensile Behaviour of a 3D Printed Lattice Structure. , 2020, , .		4

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19	Innovative Methods for Small Mixed Batches Production System Improvement: The Case of a Bakery Machine Manufacturer. Sustainability, 2020, 12, 6266.	3.2	22
20	Study of the Sound Absorption Properties of 3D-Printed Open-Porous ABS Material Structures. Polymers, 2020, 12, 1062.	4.5	25
21	Research of Tribological Properties of 34CrNiMo6 Steel in the Production of a Newly Designed Self-Equalizing Thrust Bearing. Metals, 2020, 10, 84.	2.3	6
22	Analysis of mechanical properties of a lattice structure produced with the additive technology. Composite Structures, 2020, 242, 112138.	5.8	29
23	Condition Monitoring of Kaplan Turbine Bearings Using Vibro-diagnostics. , 2020, , 1182-1188.		30
24	Verification of stiffness and surface treatment of axial bearing levers by static tests. Procedia Structural Integrity, 2020, 28, 776-783.	0.8	0
25	Analytic Network Process as a Tool of Innovative Management at Manufacturing Technology Selection. EAI/Springer Innovations in Communication and Computing, 2020, , 539-547.	1.1	0
26	Three Views on Kinematic Analysis of Whitworth Mechanism of a Shaping Machine. , 2020, , 960-966.		2
27	Study of 3D printing direction and effects of heat treatment on mechanical properties of MS1 maraging steel. Archive of Applied Mechanics, 2019, 89, 791-804.	2.2	50
28	Comparative Study of Chip Formation in Orthogonal and Oblique Slow-Rate Machining of EN 16MnCr5 Steel. Metals, 2019, 9, 698.	2.3	6
29	Research of Young's Modulus of the Simple Lattice Structures Made from Plastics. , 2019, , .		4
30	Research on Chip Shear Angle and Built-Up Edge of Slow-Rate Machining EN C45 and EN 16MnCr5 Steels. Metals, 2019, 9, 956.	2.3	7
31	Design of the Codes Structure for Information System Working on I4.0 Principles. Lecture Notes in Mechanical Engineering, 2019, , 48-58.	0.4	1
32	Study of a tap failure at the internal threads machining. Engineering Failure Analysis, 2019, 100, 25-36.	4.0	32
33	Investigation of Toothed Shaft from the View of Modal Parameters. Tehnicki Vjesnik, 2019, 26, .	0.2	1
34	Effect of the Weight reduction of a Gear Wheel on Modal Characteristics. MATEC Web of Conferences, 2019, 299, 03002.	0.2	5
35	Basic Assumptions of Information Systems for Increasing Competitiveness of Production Companies within the EU and their Application of the CAPP System Design. EAI/Springer Innovations in Communication and Computing, 2019, , 145-163.	1.1	1
36	A Study of Factors Influencing Sound Absorption Properties of Porous Materials. Manufacturing Technology, 2019, 19, 156-160.	1.4	4

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37	Data network related to an object manufacturing inside of exerted Intelligent System. EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2019, 6, 157123.	1.9	0
38	Vibrodiagnostics as the tool of a tap wear monitoring. Procedia Structural Integrity, 2018, 13, 959-964.	0.8	4
39	Modal Analysis as a Tool of Problem Identification of Gear Mechanism. , 2018, , .		1
40	Fundamental Requirements for CAPP Software Design Focusing on Industry 4.0 Specific Features. Lecture Notes in Mechanical Engineering, 2018, , 146-155.	0.4	3
41	Data flow for object manufacturing inside of information system for Industry 4.0. , 2018, , .		1
42	Multivariant process planning theory and its application for special purpose vehicle producing. Scientific Letters of Rzeszow University of Technology - Mechanics, 2018, , 205-212.	0.2	0
43	Some Aspects Influencing Production of Porous Structures with Complex Shapes of Cells. Lecture Notes in Mechanical Engineering, 2017, , 267-276.	0.4	11
44	Qualitative parameters of complex part produced by additive approach. , 2017, , .		5
45	Surface roughness evaluation after machining wear resistant hard coats. MATEC Web of Conferences, 2017, 137, 03008.	0.2	2
46	Investigation of Chip Dimensional Characteristics Created by the Specific Cutting Tool at the Machining of 12 050 Steel. Key Engineering Materials, 2017, 730, 301-305.	0.4	0
47	Influence of Deposition and Laser Treatment on Some Characteristics of Medium Carbon Steel. Key Engineering Materials, 2017, 730, 306-311.	0.4	0
48	Influence of the volume ratio of solid phase on carrying capacity of regular porous structure. MATEC Web of Conferences, 2017, 137, 02009.	0.2	0
49	Three Approaches to the Gyroid Structure Modelling as a Base of Lightweight Component Produced by Additive Technology. DEStech Transactions on Computer Science and Engineering, 2017, , .	0.1	15
50	Two Approaches to Modal Analysis of the Flange Produced by DMLS Technology. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	1
51	CAPP as a tool for strategy development of competitiveness in the mechanical engineering industry within European countries. , 2017, , .		0
52	Accuracy Investigation of Features Produced by Additive Technology. , 2017, , .		1
53	Application of Simulation for Product Quality Enhancement. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	0
54	Robot Actuators Definitionâ€”Preliminary Study. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	0

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55	Hardness and Surface Roughness Study of Steel Part Produced by Additive Technology. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	2
56	QUALITY AND PRODUCTIVITY ENHANCEMENT AT THE MACHINING OF WEAR RESISTANT HARD COATS. International Journal Advanced Quality, 2017, 45, 23.	0.2	0
57	Modal Analysis of Lightweight Racing Car. DEStech Transactions on Computer Science and Engineering, 2017, , .	0.1	0
58	Surface Machining after Deposition of Wear Resistant Hard Coats by High Velocity Oxygen Fuel Technology. Manufacturing Technology, 2017, 17, 919-925.	1.4	3
59	Morphology of the Chip Formation at Orthogonal High Speed Milling of AISI H13. Key Engineering Materials, 2016, 686, 45-50.	0.4	2
60	Design and experimental study of turning tools with linear cutting edges and comparison to commercial tools. International Journal of Advanced Manufacturing Technology, 2016, 85, 2325-2343.	3.0	21
61	NUMERICAL AND EXPERIMENTAL MODAL ANALYSIS OF GEAR WHEEL. MM Science Journal, 2016, 2016, 1232-1236.	0.4	6
62	ANALYSIS OF FREQUENCY CHARACTERISTICS AT SPINDLE CNC MACHINING CENTRE. MM Science Journal, 2016, 2016, 1515-1518.	0.4	2
63	Simulation of the Chip Formation. DEStech Transactions on Engineering and Technology Research, 2016, , .	0.0	0
64	Static Analysis of Gantry Craneâ€™Preliminary Study. DEStech Transactions on Engineering and Technology Research, 2016, , .	0.0	1
65	Chip Formation Comparison - Merchant's Model vs. Model with Rounded Cutting Edge. Manufacturing Technology, 2016, 16, 1320-1326.	1.4	2
66	Modern Tools in Education Used within the Technical Mechanics Lessons. Procedia, Social and Behavioral Sciences, 2015, 174, 3264-3271.	0.5	1
67	Rationalization of manufacturing of plastic injection moulds by abrasive waterjet. Tehnicki Vjesnik, 2015, 22, 521-525.	0.2	6
68	Experimentelle Analyse der Dynamik von Zahnradgetrieben â€™ Teil 2. TM Technisches Messen, 2015, 82, 224-232.	0.7	5
69	Determination of vibration frequency depending on abrasive mass flow rate during abrasive water jet cutting. International Journal of Advanced Manufacturing Technology, 2015, 77, 763-774.	3.0	62
70	On-line monitoring of technological process of material abrasive water jet cutting. Tehnicki Vjesnik, 2015, 22, 351-357.	0.2	18
71	Experimentelle Analyse der Dynamik von Zahnradgetrieben â€™ Teil 1. TM Technisches Messen, 2015, 82, 57-64.	0.7	8
72	Design of the Welding Fixture for the Rear Headrest Bracket of Audi. Advanced Materials Research, 2014, 933, 615-618.	0.3	0

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73	Inverse Processing of Undefined Complex Shape Parts from Structural High Alloyed Tool Steel. Advances in Mechanical Engineering, 2014, 6, 478748.	1.6	14
74	Newly Developed Software Application for Multiple Access Process Planning. Advances in Mechanical Engineering, 2014, 6, 539071.	1.6	14
75	Specification of Forces in Hydraulic Cylinders for Lifting and Transporting Mechanism HR3001. Applied Mechanics and Materials, 2013, 418, 167-171.	0.2	0
76	Concept for Mass Production of Complex Shaped Prototypes. , 2013, , .		0
77	EXPLOITATION OF CAD/CAM SYSTEMS AT THE ROBOT WORKSPACE DEFINITION. , 2012, , .		0
78	SUGGESTION OF GROUP REPRESENTATIVE WITH REGARD OF PLANT'S PRODUCTION PROGRAM. , 2012, , .		0
79	THE STUDY CONDITIONS IMPROVEMENT BY ELECTRONIC GUIDES UTILIZATION. , 2011, , .		3
80	SCREW BLADE AS THE BASE OF ECOLOGICAL WIND POWER STATION AND ITS MANUFACTURING. , 2011, , .		0
81	Surface and topographical parameters investigation at abrasive waterjet machining by means of optical measurement. International Journal of Machining and Machinability of Materials, 2009, 5, 268.	0.1	2
82	Factors Analysis Affecting the Roughness at Side Milling. The Open Industrial & Manufacturing Engineering Journal, 2009, 2, 10-13.	0.3	0
83	Helicobacter pylori and gastrointestinal tract adenocarcinomas. Nature Reviews Cancer, 2002, 2, 28-37.	28.4	1,586
84	Integrating dependability analysis into the real-time system design process. , 0, , .		4
85	Group Technology Utilization inside New Software Application. Applied Mechanics and Materials, 0, 229-231, 2765-2769.	0.2	2
86	The Dependency of the Tool Life on the Cutting Speed at the Investigation of the Tool with Specific Geometry. Advanced Materials Research, 0, 622-623, 347-351.	0.3	4
87	Surface Roughness Characteristics and Structure of Steel C45 after WC-Co Coating and Laser Treatment. Advanced Materials Research, 0, 622-623, 370-374.	0.3	1
88	The Research of the High Speed Steels Produced by Powder and Casting Metallurgy from the View of Tool Cutting Life. Applied Mechanics and Materials, 0, 302, 269-274.	0.2	13
89	Vibrodiagnostics and its Application in Manufacturing Practice. Applied Mechanics and Materials, 0, 390, 220-224.	0.2	10
90	Surface Roughness Characteristics of Polyamide APA after the Turning by Unconventional Cutting Tool. Advanced Materials Research, 0, 702, 263-268.	0.3	4

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91	Computer Aid of Mechanism Behaviour. Applied Mechanics and Materials, 0, 440, 182-187.	0.2	2
92	Virtual Geometrical Data Definition of Part with Unspecified Shape. Advanced Materials Research, 0, 871, 369-372.	0.3	1
93	The Specification of Unknown Force within Dynamic Analysis of Slider Crank Mechanism by Three Various Access. Advanced Materials Research, 0, 1016, 239-243.	0.3	2
94	Simulation of Robot Motion Operating in the Workcell to Specify Servomotors in its Individual Joints. Applied Mechanics and Materials, 0, 718, 83-87.	0.2	0
95	The Principles of Fixtures Design and their Application at Virtual Modelling in CAD/CAM System. Applied Mechanics and Materials, 0, 718, 99-104.	0.2	0
96	Optimization of Injection Moulding Process from the View of Cavity Filling Time and Product Cooling Time. Applied Mechanics and Materials, 0, 621, 208-213.	0.2	1
97	Mould Running System Design to Achieve the Minimum Waste. Advanced Materials Research, 0, 933, 963-968.	0.3	0
98	Modal Analysis as the Base of Dynamic Analysis. Applied Mechanics and Materials, 0, 798, 148-152.	0.2	3
99	Experimental Investigation of Cutting Conditions from the View of Force Load at High Speed Milling. Solid State Phenomena, 0, 261, 36-43.	0.3	0