

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	Helicobacter pylori and gastrointestinal tract adenocarcinomas. Nature Reviews Cancer, 2002, 2, 28-37.	28.4	1,586
2	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
3	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
4	Numerical Simulation of Aeroelastic Interaction Between Gas-Liquid Flow and Deformable Elements in Modular Separation Devices. Lecture Notes in Mechanical Engineering, 2020, , 765-774.	0.4	35
5	Study of a tap failure at the internal threads machining. Engineering Failure Analysis, 2019, 100, 25-36.	4.0	32
6	Condition Monitoring of Kaplan Turbine Bearings Using Vibro-diagnostics. , 2020, , 1182-1188.		30
7	Analysis of mechanical properties of a lattice structure produced with the additive technology. Composite Structures, 2020, 242, 112138.	5.8	29
8	Study of the Sound Absorption Properties of 3D-Printed Open-Porous ABS Material Structures. Polymers, 2020, 12, 1062.	4.5	25
9	Innovative Methods for Small Mixed Batches Production System Improvement: The Case of a Bakery Machine Manufacturer. Sustainability, 2020, 12, 6266.	3.2	22
10	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
11	Mechanical Vibration Damping and Compression Properties of a Lattice Structure. Materials, 2021, 14, 1502.	2.9	20
12	On-line monitoring of technological process of material abrasive water jet cutting. Tehnicki Vjesnik, 2015, 22, 351-357.	0.2	18
13	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
14	Inverse Processing of Undefined Complex Shape Parts from Structural High Alloyed Tool Steel. Advances in Mechanical Engineering, 2014, 6, 478748.	1.6	14
15	Newly Developed Software Application for Multiple Access Process Planning. Advances in Mechanical Engineering, 2014, 6, 539071.	1.6	14
16	Effect of 3D-Printed PLA Structure on Sound Reflection Properties. Polymers, 2022, 14, 413.	4.5	14
17	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
18	Some Aspects Influencing Production of Porous Structures with Complex Shapes of Cells. Lecture Notes in Mechanical Engineering, 2017, , 267-276.	0.4	11

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19	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
20	Research of Resistance of Selected Materials to Abrasive Wear to Increase the Ploughshare Lifetime. <i>Metals</i> , 2022, 12, 940.	2.3	11
21	Vibrodiagnostics and its Application in Manufacturing Practice. <i>Applied Mechanics and Materials</i> , 0, 390, 220-224.	0.2	10
22	Experimentelle Analyse der Dynamik von Zahnradgetrieben – Teil 1. <i>TM Technisches Messen</i> , 2015, 82, 57-64.	0.7	8
23	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
24	Research on Chip Shear Angle and Built-Up Edge of Slow-Rate Machining EN C45 and EN 16MnCr5 Steels. <i>Metals</i> , 2019, 9, 956.	2.3	7
25	Rationalization of manufacturing of plastic injection moulds by abrasive waterjet. <i>Tehnicki Vjesnik</i> , 2015, 22, 521-525.	0.2	6
26	Comparative Study of Chip Formation in Orthogonal and Oblique Slow-Rate Machining of EN 16MnCr5 Steel. <i>Metals</i> , 2019, 9, 698.	2.3	6
27	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
28	Research of Tribological Properties of 34CrNiMo6 Steel in the Production of a Newly Designed Self-Equalizing Thrust Bearing. <i>Metals</i> , 2020, 10, 84.	2.3	6
29	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
30	NUMERICAL AND EXPERIMENTAL MODAL ANALYSIS OF GEAR WHEEL. <i>MM Science Journal</i> , 2016, 2016, 1232-1236.	0.4	6
31	Experimentelle Analyse der Dynamik von Zahnradgetrieben – Teil 2. <i>TM Technisches Messen</i> , 2015, 82, 224-232.	0.7	5
32	Qualitative parameters of complex part produced by additive approach. , 2017, , .		5
33	Effect of the Weight reduction of a Gear Wheel on Modal Characteristics. <i>MATEC Web of Conferences</i> , 2019, 299, 03002.	0.2	5
34	Integrating dependability analysis into the real-time system design process. , 0, , .		4
35	The Dependency of the Tool Life on the Cutting Speed at the Investigation of the Tool with Specific Geometry. <i>Advanced Materials Research</i> , 0, 622-623, 347-351.	0.3	4
36	Surface Roughness Characteristics of Polyamide APA after the Turning by Unconventional Cutting Tool. <i>Advanced Materials Research</i> , 0, 702, 263-268.	0.3	4

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37	Vibrodiagnostics as the tool of a tap wear monitoring. <i>Procedia Structural Integrity</i> , 2018, 13, 959-964.	0.8	4
38	Research of Young's Modulus of the Simple Lattice Structures Made from Plastics. , 2019, , .		4
39	Tensile Behaviour of a 3D Printed Lattice Structure. , 2020, , .		4
40	A Study of Factors Influencing Sound Absorption Properties of Porous Materials. <i>Manufacturing Technology</i> , 2019, 19, 156-160.	1.4	4
41	Modal Analysis as the Base of Dynamic Analysis. <i>Applied Mechanics and Materials</i> , 0, 798, 148-152.	0.2	3
42	Fundamental Requirements for CAPP Software Design Focusing on Industry 4.0 Specific Features. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 146-155.	0.4	3
43	THE STUDY CONDITIONS IMPROVEMENT BY ELECTRONIC GUIDES UTILIZATION. , 2011, , .		3
44	Surface Machining after Deposition of Wear Resistant Hard Coats by High Velocity Oxygen Fuel Technology. <i>Manufacturing Technology</i> , 2017, 17, 919-925.	1.4	3
45	Surface and topographical parameters investigation at abrasive waterjet machining by means of optical measurement. <i>International Journal of Machining and Machinability of Materials</i> , 2009, 5, 268.	0.1	2
46	Group Technology Utilization inside New Software Application. <i>Applied Mechanics and Materials</i> , 0, 229-231, 2765-2769.	0.2	2
47	Computer Aid of Mechanism Behaviour. <i>Applied Mechanics and Materials</i> , 0, 440, 182-187.	0.2	2
48	The Specification of Unknown Force within Dynamic Analysis of Slider Crank Mechanism by Three Various Access. <i>Advanced Materials Research</i> , 0, 1016, 239-243.	0.3	2
49	Morphology of the Chip Formation at Orthogonal High Speed Milling of AISI H13. <i>Key Engineering Materials</i> , 2016, 686, 45-50.	0.4	2
50	Surface roughness evaluation after machining wear resistant hard coats. <i>MATEC Web of Conferences</i> , 2017, 137, 03008.	0.2	2
51	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
52	ANALYSIS OF FREQUENCY CHARACTERISTICS AT SPINDLE CNC MACHINING CENTRE. <i>MM Science Journal</i> , 2016, 2016, 1515-1518.	0.4	2
53	Chip Formation Comparison - Merchant's Model vs. Model with Rounded Cutting Edge. <i>Manufacturing Technology</i> , 2016, 16, 1320-1326.	1.4	2
54	Hardness and Surface Roughness Study of Steel Part Produced by Additive Technology. <i>DEStech Transactions on Engineering and Technology Research</i> , 2017, , .	0.0	2

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55	Three Views on Kinematic Analysis of Whitworth Mechanism of a Shaping Machine. , 2020, , 960-966.		2
56	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
57	Virtual Geometrical Data Definition of Part with Unspecified Shape. Advanced Materials Research, 0, 871, 369-372.	0.3	1
58	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
59	Modern Tools in Education Used within the Technical Mechanics Lessons. Procedia, Social and Behavioral Sciences, 2015, 174, 3264-3271.	0.5	1
60	Modal Analysis as a Tool of Problem Identification of Gear Mechanism. , 2018, , .		1
61	Design of the Codes Structure for Information System Working on I4.0 Principles. Lecture Notes in Mechanical Engineering, 2019, , 48-58.	0.4	1
62	Investigation of Toothed Shaft from the View of Modal Parameters. Tehnicki Vjesnik, 2019, 26, .	0.2	1
63	Natural Frequencies of a Simple 3D Printed Lattice Structure. , 2021, , .		1
64	Two Approaches to Modal Analysis of the Flange Produced by DMLS Technology. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	1
65	Static Analysis of Gantry Craneâ€™Preliminary Study. DEStech Transactions on Engineering and Technology Research, 2016, , .	0.0	1
66	Accuracy Investigation of Features Produced by Additive Technology. , 2017, , .		1
67	Data flow for object manufacturing inside of information system for Industry 4.0. , 2018, , .		1
68	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
69	Flexible Manufacturing System Simulation and Optimization. Lecture Notes in Networks and Systems, 2021, , 53-64.	0.7	1
70	Influence of the material volume of a lattice structure on bending properties. MATEC Web of Conferences, 2021, 349, 04003.	0.2	1
71	Development and analyses of a lever system for a newly designed self-equalising thrust bearing. Engineering Failure Analysis, 2022, 137, 106215.	4.0	1
72	Specification of Forces in Hydraulic Cylinders for Lifting and Transporting Mechanism HR3001. Applied Mechanics and Materials, 2013, 418, 167-171.	0.2	0

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73	Design of the Welding Fixture for the Rear Headrest Bracket of Audi. Advanced Materials Research, 2014, 933, 615-618.	0.3	0
74	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
75	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
76	Mould Running System Design to Achieve the Minimum Waste. Advanced Materials Research, 0, 933, 963-968.	0.3	0
77	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
78	Influence of Deposition and Laser Treatment on Some Characteristics of Medium Carbon Steel. Key Engineering Materials, 2017, 730, 306-311.	0.4	0
79	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
80	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
81	Effects of Reinforcement Ratios and Sintering Temperatures on the Mechanical Properties of Titanium Nitride/Nickel Composites. Materials, 2020, 13, 4473.	2.9	0
82	Effect of Surface Modification and Standoff Distance on Hydrodynamic Ductile Erosion. Lecture Notes in Mechanical Engineering, 2021, , 111-119.	0.4	0
83	Factors Analysis Affecting the Roughness at Side Milling. The Open Industrial & Manufacturing Engineering Journal, 2009, 2, 10-13.	0.3	0
84	SCREW BLADE AS THE BASE OF ECOLOGICAL WIND POWER STATION AND ITS MANUFACTURING. , 2011, , .		0
85	EXPLOITATION OF CAD/CAM SYSTEM AT THE ROBOT WORKSPACE DEFINITION. , 2012, , .		0
86	SUGGESTION OF GROUP REPRESENTATIVE WITH REGARD OF PLANT'S PRODUCTION PROGRAM. , 2012, , .		0
87	Concept for Mass Production of Complex Shaped Prototypes. , 2013, , .		0
88	Simulation of the Chip Formation. DEStech Transactions on Engineering and Technology Research, 2016, , .	0.0	0
89	CAPP as a tool for strategy development of competitiveness in the mechanical engineering industry within European countries. , 2017, , .		0
90	Application of Simulation for Product Quality Enhancement. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	0

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91	Robot Actuators Definitionâ€™Preliminary Study. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	0
92	QUALITY AND PRODUCTIVITY ENHANCEMENT AT THE MACHINING OF WEAR RESISTANT HARD COATS. International Journal Advanced Quality, 2017, 45, 23.	0.2	0
93	Modal Analysis of Lightweight Racing Car. DEStech Transactions on Computer Science and Engineering, 2017, , .	0.1	0
94	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
95	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
96	Verification of stiffness and surface treatment of axial bearing levers by static tests. Procedia Structural Integrity, 2020, 28, 776-783.	0.8	0
97	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
98	Strength Calculation and Optimization of Boat Crane. Lecture Notes in Networks and Systems, 2021, , 35-52.	0.7	0
99	Innovative Relations within the Software Application for Industry 4.0. Procedia CIRP, 2021, 104, 951-956.	1.9	0