Arkadiusz Gola

List of Publications by Year
in descending order

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73	996	471371	501076
papers	citations	17 h-index	28 g-index

78	78	78	653
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Maintenance 4.0 Technologies for Sustainable Manufacturing - an Overview. IFAC-PapersOnLine, 2019, 52, 91-96.	0.5	97
2	Reliability analysis of reconfigurable manufacturing system structures using computer simulation methods. Eksploatacja I Niezawodnosc, 2018, 21, 90-102.	1.1	49
3	Increasing the Reliability of Flood Embankments with Neural Imaging Method. Applied Sciences (Switzerland), 2018, 8, 1457.	1.3	48
4	Development of computer-controlled material handling model by means of fuzzy logic and genetic algorithms. Neurocomputing, 2019, 338, 381-392.	3.5	48
5	A Digital Twin Approach for the Improvement of an Autonomous Mobile Robots (AMRâ€™s) Operating Environmentâ€”A Case Study. Sensors, 2021, 21, 7830.	2.1	36
6	The Use of Artificial Intelligence Methods to Assess the Effectiveness of Lean Maintenance Concept Implementation in Manufacturing Enterprises. Applied Sciences (Switzerland), 2020, 10, 7922.	1.3	35
7	Fuzzy set theory driven maintenance sustainability performance assessment model: a multiple criteria approach. Journal of Intelligent Manufacturing, 2021, 32, 1497-1515.	4.4	33
8	Integer Linear Programming in Optimization of Waste After Cutting in the Furniture Manufacturing. Advances in Intelligent Systems and Computing, 2018, , 260-270.	0.5	32
9	Accuracy Control in the Machining of Low Rigidity Shafts. Applied Mechanics and Materials, 0, 613, 357-367.	0.2	31
10	Computational Intelligence in Control of AGV Multimodal Systems. IFAC-PapersOnLine, 2018, 51, 1421-1427.	0.5	30
11	Application of Fuzzy Logic in Assigning Workers toÂProduction Tasks. Advances in Intelligent Systems and Computing, 2016, , 505-513.	0.5	30
12	Scalability analysis of selected structures of a reconfigurable manufacturing system taking into account a reduction in machine tools reliability. Eksploatacja I Niezawodnosc, 2021, 23, 242-252.	1.1	26
13	Risk-based estimation of manufacturing order costs with artificial intelligence. , 0, , .		25
14	The Use of Intelligent Systems to Support the Decision-Making Process in Lean Maintenance Management. IFAC-PapersOnLine, 2019, 52, 148-153.	0.5	24
15	Simulation of the Operation of a Spark Ignition Engine Fueled with Various Biofuels and Its Contribution to Technology Management. Sustainability, 2019, 11, 2799.	1.6	23
16	Toxicity of Exhaust Fumes (CO, NOx) of the Compression-Ignition (Diesel) Engine with the Use of Simulation. Sustainability, 2019, 11, 2188.	1.6	22
17	Application of Fuzzy Logic and Genetic Algorithms in Automated Works Transport Organization. Advances in Intelligent Systems and Computing, 2018, , 29-36.	0.5	22
18	Application of survival function in robust scheduling of production jobs. , 0, , .		21

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19	A Knowledge-Based Approach to Product Concept Screening. Advances in Intelligent Systems and Computing, 2015, , 341-348.	0.5	20
20	METHOD OF ACHIEVING ACCURACY OF THERMO-MECHANICAL TREATMENT OF LOW-RIGIDITY SHAFTS. Advances in Science and Technology Research Journal, 2016, 10, 62-70.	0.4	19
21	Time-based machine failure prediction in multi-machine manufacturing systems. Eksploatacja I Niezawodnosc, 2020, 22, 52-62.	1.1	18
22	The Effects of Pressure and Temperature on the Process of Auto-Ignition and Combustion of Rape Oil and Its Mixtures. Sustainability, 2019, 11, 3451.	1.6	16
23	Reference model of milk-run traffic systems prototyping. International Journal of Production Research, 2021, 59, 4495-4512.	4.9	15
24	TECHNICAL AND ORGANIZATIONAL IMPROVEMENTS OF PACKAGING PRODUCTION PROCESS. Advances in Science and Technology Research Journal, 2016, 10, 182-192.	0.4	15
25	Micro-geometry Surface Modelling in the Process of Low-Rigidity Elastic-Deformable Shafts Turning. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2017, 41, 159-167.	0.8	14
26	Evaluation of the Brakeâ€™s Performance Dependence Upon Technical Condition of Car Tires as a Factor of Road Safety Management. Energies, 2020, 13, 9.	1.6	14
27	Application-based support of machine maintenance. IFAC-PapersOnLine, 2019, 52, 131-135.	0.5	13
28	The Use of Neural Networks and Genetic Algorithms to Control Low Rigidity Shafts Machining. Sensors, 2020, 20, 4683.	2.1	13
29	The Meaning and Directions of Development of Personalized Production in the Era of Industry 4.0 and Industry 5.0. Lecture Notes in Mechanical Engineering, 2023, , 1-13.	0.3	13
30	Design and Management of Manufacturing Systems. Applied Sciences (Switzerland), 2021, 11, 2216.	1.3	12
31	The Use of a Genetic Algorithm for Sorting Warehouse Optimisation. Processes, 2021, 9, 1197.	1.3	11
32	Reducing the Total Product Cost at the Product Design Stage. Applied Sciences (Switzerland), 2022, 12, 1921.	1.3	10
33	Simulation Based Analysis of Reconfigurable Manufacturing System Configurations. Applied Mechanics and Materials, 0, 844, 50-59.	0.2	9
34	Mathematical Models for Manufacturing Systems Capacity Planning and Expansion â€“ An Overview. Applied Mechanics and Materials, 2015, 791, 125-131.	0.2	8
35	Analysis of the Process of Turning of Low-Rigidity Shafts. Applied Mechanics and Materials, 0, 791, 238-245.	0.2	8
36	Predictive Scheduling with Markov Chains and ARIMA Models. Applied Sciences (Switzerland), 2020, 10, 6121.	1.3	8

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37	Potential Routes to the Sustainability of the Food Packaging Industry. Sustainability, 2022, 14, 3924.	1.6	8
38	Human Resource Selection for Manufacturing System Using Petri Nets. Applied Mechanics and Materials, 2015, 791, 132-140.	0.2	7
39	Interactive Planning of Competency-Driven University Teaching Staff Allocation. Applied Sciences (Switzerland), 2020, 10, 4894.	1.3	7
40	A thermo-mechanical machining method for improving the accuracy and stability of the geometric shape of long low-rigidity shafts. Journal of Intelligent Manufacturing, 2021, 32, 1939-1951.	4.4	7
41	Job-shop scheduling with machine breakdown prediction under completion time constraint. , 0, , .		6
42	Application of OEE Coefficient for Manufacturing Lines Reliability Improvement. , 2017, , .		5
43	A Computer Tool Using OpenModelica for Modelling CO2 Emissions in Driving Tests. Energies, 2022, 15, 995.	1.6	5
44	Perspective and Methods of Human-Industrial Robots Cooperation. Applied Mechanics and Materials, 0, 791, 178-183.	0.2	4
45	Prediction of variable technological operation times in production jobs scheduling. IFAC-PapersOnLine, 2019, 52, 1301-1306.	0.5	4
46	A Predictive Model of Multi-Stage Production Planning for Fixed Time Orders. Management and Production Engineering Review, 2014, 5, 23-32.	1.4	3
47	Theoretical and Experimental Identification of Frequency Characteristics and Control Signals of a Dynamic System in the Process of Turning. Materials, 2021, 14, 2260.	1.3	3
48	Modelling and simulation of reconfigurable manufacturing system for machining of casing-class parts. , 2021, , .		3
49	A fuzzy logic approach to remaining useful life control and scheduling of cooperating forklifts. , 2021, , .		3
50	Control of Accuracy of Forming Elastic-Deformable Shafts with Low Rigidity. Advances in Intelligent Systems and Computing, 2018, , 107-114.	0.5	3
51	An Adaptive Algorithm for Multiple Part Families Manufacturing Selection in Reconfigurable Flow Lines. Communications in Computer and Information Science, 2020, , 133-144.	0.4	3
52	Virtual Designing of Robotic Workstations. Applied Mechanics and Materials, 0, 844, 31-37.	0.2	2
53	Control of Machining of Axisymmetric Low-Rigidity Parts. Materials, 2020, 13, 5053.	1.3	2
54	The Algorithms for Robust Scheduling of Production Jobs Under Machine Failure and Variable Technological Operation Times. Lecture Notes in Mechanical Engineering, 2022, , 56-67.	0.3	2

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55	Pick Performance System as an IT Support for Order Completing â€“ A Case Study. Lecture Notes in Mechanical Engineering, 2022, , 105-115.	0.3	2
56	The Role and Meaning of the Digital Twin Technology in the Process of Implementing Intelligent Collaborative Robots. Lecture Notes in Mechanical Engineering, 2022, , 39-49.	0.3	2
57	Brief preliminary design for a method of FMS machine tools subsystem selection. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 663-664.	0.2	1
58	Dynamic System of Grinding of Low-Rigidity Shafts. Applied Mechanics and Materials, 0, 791, 281-289.	0.2	1
59	Modelling Characteristics Turning Processing for Want of Management by an Elastic Deformed Condition. Applied Mechanics and Materials, 0, 844, 109-114.	0.2	1
60	Thermomechanical Treatment of Long Low-Stiffness Shafts. IFAC-PapersOnLine, 2019, 52, 136-141.	0.5	1
61	Implementation of Low-Sensitivity Adaptive Control Systems in Machining Low-Stiffness Axisymmetric Workpieces. IFAC-PapersOnLine, 2019, 52, 79-84.	0.5	1
62	TECHNOLOGY OF HEAT TREATING-STRAIGHTENING OF LONG SHAFTS WITH LOW RIGIDITY. Advances in Science and Technology Research Journal, 2016, 10, 207-214.	0.4	1
63	Structural Decomposition Approach to Design of No-Wait Cyclic Schedules for Repeatedly Operating Transport System Dedicated to Supply Loops. IFAC-PapersOnLine, 2020, 53, 10542-10549.	0.5	1
64	Optimal Production Planning for a Random Horizon. Applied Mechanics and Materials, 0, 791, 63-69.	0.2	0
65	Clasiffication and Analysis of Typical Structures of Dynamic Systems of Machining of Low-Rigidity Shafts. IFAC-PapersOnLine, 2019, 52, 142-147.	0.5	0
66	A Method of Increasing the Accuracy of Controlling the Parameters of Dynamic Systems and Regulating the Parameters of the Elastic-Deformable State in the Process of Treating Low-Rigidity Shafts. Advances in Science and Technology Research Journal, 2021, 15, 26-36.	0.4	0
67	Influence of Various Types of Office Desk Chair for Dynamizing the Operation Assessed by Raster Stereography. Applied Sciences (Switzerland), 2021, 11, 4910.	1.3	0
68	An Investigation into the Effect of Electro-Contact Heating in the Machining of Low-Rigidity Thin-Walled Micro-Machine Parts. Materials, 2021, 14, 4427.	1.3	0
69	Organizacja przestrzeni skÅ‚adowania dla potrzeb magazynowania Å›rodkÃ³w ochrony roÅ›lin. Przemysl Chemiczny, 2018, 1, 36-40.	0.0	0
70	The Use of Artificial Neural Networks in Tomographic Reconstruction of Soil Embankments. Advances in Intelligent Systems and Computing, 2019, , 104-112.	0.5	0
71	Predicting the Error of a Robotâ€™s Positioning Repeatability with Artificial Neural Networks. Advances in Intelligent Systems and Computing, 2020, , 41-48.	0.5	0
72	The Influence of the Packing Material Type on the Adhesive Joints Strength of the Paperboard Packages. Lecture Notes in Mechanical Engineering, 2020, , 914-925.	0.3	0

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73	Job Scheduling Algorithm for a Hybrid MTO-MTS Production Process. IFAC-PapersOnLine, 2022, 55, 451-456.	0.5	0