

Vitalii Ivanov

List of Publications by Year in descending order

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papers

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59
all docs

59
docs citations

59
times ranked

416
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing of Equipment Efficiency by Intensification of Technological Processes. Periodica Polytechnica, Mechanical Engineering, 2018, 63, 67-73.	1.4	44
2	Parameter Identification of Cutting Forces in Crankshaft Grinding Using Artificial Neural Networks. Materials, 2020, 13, 5357.	2.9	41
3	Scientific and Methodological Approach for the Identification of Mathematical Models of Mechanical Systems by Using Artificial Neural Networks. Lecture Notes in Electrical Engineering, 2019, , 299-306.	0.4	37
4	Determination of contact points between workpiece and fixture elements as a tool for augmented reality in fixture design. Wireless Networks, 2021, 27, 1657-1664.	3.0	36
5	Ensuring Vibration Reliability of Turbopump Units Using Artificial Neural Networks. Lecture Notes in Mechanical Engineering, 2019, , 165-175.	0.4	32
6	Estimation of the Reliability of Automatic Axial-balancing Devices for Multistage Centrifugal Pumps. Periodica Polytechnica, Mechanical Engineering, 2018, 63, 52-56.	1.4	31
7	Technological Assurance and Features of Fork-Type Parts Machining. Lecture Notes in Mechanical Engineering, 2020, , 114-125.	0.4	29
8	Mathematical Modeling and Numerical Simulation of Fixtures for Fork-Type Parts Manufacturing. EAI/Springer Innovations in Communication and Computing, 2019, , 133-142.	1.1	28
9	Simulation of Diffusion Processes in Chemical and Thermal Processing of Machine Parts. Processes, 2021, 9, 698.	2.8	28
10	Numerical simulation of the system "fixture-workpiece" for lever machining. International Journal of Advanced Manufacturing Technology, 2017, 91, 79-90.	3.0	27
11	Improvement of Parameters for the Multi-Functional Oil-Gas Separator of "HEATER-TREATER" Type. , 2019, , .		27
12	Mathematical Modeling of Operating Process and Technological Features for Designing the Vortex Type Liquid-Vapor Jet Apparatus. Lecture Notes in Mechanical Engineering, 2020, , 613-622.	0.4	27
13	Prospects of Using Hydrodynamic Cavitation for Enhancement of Efficiency of Fluid Working Medium Preparation Technologies. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 269-276.	1.4	24
14	Visual Product Inspection Based on Deep Learning Methods. Lecture Notes in Mechanical Engineering, 2020, , 148-156.	0.4	24
15	Parametric Optimization of Fixtures for Multiaxis Machining of Parts. Lecture Notes in Mechanical Engineering, 2019, , 335-347.	0.4	23
16	Experimental diagnostic research of fixture. Diagnostyka, 2018, 19, 3-9.	0.8	23
17	Method for an Effective Selection of Tools and Cutting Conditions during Precise Turning of Non-Alloy Quality Steel C45. Materials, 2022, 15, 505.	2.9	14
18	Effect of Superimposed Vibrations on Droplet Oscillation Modes in Prilling Process. Processes, 2020, 8, 566.	2.8	13

#	ARTICLE	IF	CITATIONS
19	Using Regression Analysis for Automated Material Selection in Smart Manufacturing. Mathematics, 2022, 10, 1888.	2.2	13
20	LOGISTICS CONTROL OF THE RESOURCES FLOW IN ENERGY-SAVING PROJECTS: CASE STUDY FOR METALLURGICAL INDUSTRY. Acta Logistica, 2020, 7, 49-60.	0.6	12
21	Conceptual Use of Augmented Reality in the Maintenance of Manufacturing Facilities. Lecture Notes in Mechanical Engineering, 2022, , 241-252.	0.4	12
22	Technological Assurance of High-Efficiency Machining of Internal Rope Threads on Computer Numerical Control Milling Machines. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	7
23	Increasing Productivity of Connecting Rods Machining. Lecture Notes in Mechanical Engineering, 2020, , 264-275.	0.4	7
24	Development of Flexible Fixtures with Incomplete Locating: Connecting Rods Machining Case Study. Machines, 2022, 10, 493.	2.2	7
25	Mobile Applications in Engineering Based on the Technology of Augmented Reality. Lecture Notes in Mechanical Engineering, 2022, , 366-376.	0.4	6
26	Ensuring the Bending Stiffness of Pre-compressed Cantilever Boring Bars During Fine Boring. Lecture Notes in Mechanical Engineering, 2020, , 315-324.	0.4	6
27	Flexible Fixtures for CNC Machining Centers in Multiproduct Manufacturing. EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2018, 4, 153552.	1.9	6
28	Locating Chart Choice Based on the Decision-Making Approach. Materials, 2022, 15, 3557.	2.9	5
29	Information System for Computer-Aided Fixture Design. EAI/Springer Innovations in Communication and Computing, 2019, , 121-132.	1.1	4
30	The Mathematical Model for the Secondary Breakup of Dropping Liquid. Energies, 2020, 13, 6078.	3.1	4
31	Fundamental Approach for Analysis of Dynamic Characteristics of Fixtures. EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2018, 4, 154366.	1.9	4
32	Identification of the Interfacial Surface in Separation of Two-Phase Multicomponent Systems. Processes, 2020, 8, 306.	2.8	3
33	Estimation of Wear Resistance for Multilayer Coatings Obtained by Nitrogenchroming. Metals, 2021, 11, 1153.	2.3	3
34	Computer-Aided Positioning of Elements of the System "Fixture" Workpiece", 2018, , .		3
35	Impact of Magnetic-Pulse and Chemical-Thermal Treatment on Alloyed Steels™ Surface Layer. Applied Sciences (Switzerland), 2022, 12, 469.	2.5	3
36	The Effect of Blade Angle Deviation on Mixed Inflow Turbine Performances. Applied Sciences (Switzerland), 2022, 12, 3781.	2.5	3

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37	Impact of Nitrocarburizing on Hardening of Reciprocating Compressorâ€™s Valves. <i>Coatings</i> , 2022, 12, 574.	2.6	3
38	Flow Modeling in a Vortex Chamber of a Liquidâ€™Steam Jet Apparatus. <i>Processes</i> , 2022, 10, 984.	2.8	3
39	Three-Dimensional Mathematical Model of the Liquid Film Downflow on a Vertical Surface. <i>Energies</i> , 2020, 13, 1938.	3.1	2
40	Methods and Algorithms for Calculating Nonlinear Oscillations of Rotor Systems. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 63-74.	0.4	2
41	Interaction of Flexural and Torsional Shapes Vibrations in Fine Boring with Cantilever Boring Bars. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 481-489.	0.4	2
42	Comprehensive Approach for Mathematical Modeling of Mechanical Systems: Fixture Design Case Study. , 2018, , .		2
43	Diagnostics of the Rotor-Stator Contact by Spectral Analysis of the Vibration State for Rotor Machines. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 521-534.	0.4	2
44	Two-Phase Turbulent Flow in the Separation Channel with an Oscillating Wall. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 570-581.	0.4	1
45	Technological Features of Locating Charts in Fixture Design. <i>Lecture Notes in Networks and Systems</i> , 2020, , 66-74.	0.7	1
46	Mathematical Model of the Fixture Flexibility Impact on Machining Accuracy of Levers. <i>Acta Mechanica Slovaca</i> , 2016, 20, 6-15.	0.1	1
47	Methodology of Experimental Research of Aeroelastic Interaction Between Two-Phase Flow and Deflecting Elements for Modular Separation Devices. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 489-499.	0.4	1
48	Composition, Structure, and Properties of Ti, Al, Cr, N, C Multilayer Coatings on AISI W1-7 Alloyed Tool Steel. <i>Coatings</i> , 2022, 12, 616.	2.6	1
49	Improvement of the Efficiency of Fine Boring for Stepped Holes with a Large Diameter Range. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 322-331.	0.4	1
50	Parameter Identification of the Heat Supply System in a Coach. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 643-653.	0.4	0
51	Ensuring the Reliability of Separation Equipment Based on Parameter Identification of the Operation Process. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 207-216.	1.1	0
52	Technological Assurance of Manufacturing Effectiveness on CNC Machining Centers. <i>Advances in Business Information Systems and Analytics Book Series</i> , 2020, , 344-384.	0.4	0
53	Features of Flexural-Torsional Oscillations of Cantilever Boring Bars for Fine Boring of Deep Holes with Small Diameters. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 98-108.	0.4	0