

Vitalii Ivanov

List of Publications by Year in descending order

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papers

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34
all docs

34
docs citations

34
times ranked

386
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	Simulation of Diffusion Processes in Chemical and Thermal Processing of Machine Parts. Processes, 2021, 9, 698.	2.8	28
9	Numerical simulation of the system "fixture-workpiece" for lever machining. International Journal of Advanced Manufacturing Technology, 2017, 91, 79-90.	3.0	27
10	Improvement of Parameters for the Multi-Functional Oil-Gas Separator of "HEATER-TREATER" Type. , 2019, , .		27
11	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
12	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
13	Parametric Optimization of Fixtures for Multiaxis Machining of Parts. Lecture Notes in Mechanical Engineering, 2019, , 335-347.	0.4	23
14	Experimental diagnostic research of fixture. Diagnostyka, 2018, 19, 3-9.	0.8	23
15	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
16	Effect of Superimposed Vibrations on Droplet Oscillation Modes in Prilling Process. Processes, 2020, 8, 566.	2.8	13
17	Using Regression Analysis for Automated Material Selection in Smart Manufacturing. Mathematics, 2022, 10, 1888.	2.2	13
18	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

#	ARTICLE	IF	CITATIONS
19	Development of Flexible Fixtures with Incomplete Locating: Connecting Rods Machining Case Study. Machines, 2022, 10, 493.	2.2	7
20	Locating Chart Choice Based on the Decision-Making Approach. Materials, 2022, 15, 3557.	2.9	5
21	The Mathematical Model for the Secondary Breakup of Dropping Liquid. Energies, 2020, 13, 6078.	3.1	4
22	Estimation of Wear Resistance for Multilayer Coatings Obtained by Nitrogenchroming. Metals, 2021, 11, 1153.	2.3	3
23	Impact of Magnetic-Pulse and Chemical-Thermal Treatment on Alloyed Steelsâ€™ Surface Layer. Applied Sciences (Switzerland), 2022, 12, 469.	2.5	3
24	The Effect of Blade Angle Deviation on Mixed Inflow Turbine Performances. Applied Sciences (Switzerland), 2022, 12, 3781.	2.5	3
25	Impact of Nitrocarburizing on Hardening of Reciprocating Compressorâ€™s Valves. Coatings, 2022, 12, 574.	2.6	3
26	Flow Modeling in a Vortex Chamber of a Liquidâ€™Steam Jet Apparatus. Processes, 2022, 10, 984.	2.8	3
27	Three-Dimensional Mathematical Model of the Liquid Film Downflow on a Vertical Surface. Energies, 2020, 13, 1938.	3.1	2
28	A UNIFORM INTERACTION MODEL OF EDUCATIONAL PROCESS AGENTS IN THE UNIFIED MANAGEMENT SYSTEM OF A HIGHER EDUCATION INSTITUTION. ĀEnformacĀjnĀ TehnologĀ Ā Zasobi NavĀannĀ, 2020, 78, 266-277. ¹	0.4	1
29	Composition, Structure, and Properties of Ti, Al, Cr, N, C Multilayer Coatings on AISI W1-7 Alloyed Tool Steel. Coatings, 2022, 12, 616.	2.6	1
30	Simulation of Air Flow on the Bodywork Automobile with Direct and Side Load. Lecture Notes in Mechanical Engineering, 2019, , 228-242.	0.4	0
31	Construction of methods for ensuring the required level of safety integrity in the automated systems of control over technological processes. Eastern-European Journal of Enterprise Technologies, 2019, 6, 70-78.	0.5	0