Ivan V Pavlenko

List of Publications by Year
in descending order

73	925	361413	526287
papers	citations	20 h-index	27 g-index

80	80	80	532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parameter Identification of Cutting Forces in Crankshaft Grinding Using Artificial Neural Networks. Materials, 2020, 13, 5357.	2.9	41
2	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
3	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
4	The model of crossed movement and gas-liquid flow interaction with captured liquid film in the inertial-filtering separation channels. Separation and Purification Technology, 2017, 173, 240-243.	7.9	35
5	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
6	Preface. Medical Mycology, 2009, 47, 1-1.	0.7	34
7	Dynamic analysis of centrifugal machines rotors supported on ball bearings by combined application of 3D and beam finite element models. IOP Conference Series: Materials Science and Engineering, 2017, 233, 012053.	0.6	32
8	Ensuring Vibration Reliability of Turbopump Units Using Artificial Neural Networks. Lecture Notes in Mechanical Engineering, 2019, , 165-175.	0.4	32
9	Estimation of the Reliability of Automatic Axial-balancing Devices for Multistage Centrifugal Pumps. Periodica Polytechnica, Mechanical Engineering, 2018, 63, 52-56.	1.4	31
10	Condition Monitoring of Kaplan Turbine Bearings Using Vibro-diagnostics. , 2020, , 1182-1188.		30
11	Static and Dynamic Analysis of the Closing Rotor Balancing Device of the Multistage Centrifugal Pump. Applied Mechanics and Materials, 0, 630, 248-254.	0.2	29
12	Technological Assurance and Features of Fork-Type Parts Machining. Lecture Notes in Mechanical Engineering, 2020, , 114-125.	0.4	29
13	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
14	Simulation of Diffusion Processes in Chemical and Thermal Processing of Machine Parts. Processes, 2021, 9, 698.	2.8	28
15	Numerical simulation of the system â€œfixtureâ€“workpieceâ€•for lever machining. International Journal of Advanced Manufacturing Technology, 2017, 91, 79-90.	3.0	27
16	Improvement of Parameters for the Multi-Functional Oil-Gas Separator of â€œHEATER-TREATERâ€•Type. , 2019, , .		27
17	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
18	Appliance of Inertial Gas-Dynamic Separation of Gas-Dispersion Flows in the Curvilinear Convergent-Divergent Channels for Compressor Equipment Reliability Improvement. IOP Conference Series: Materials Science and Engineering, 2017, 233, 012025.	0.6	26

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19	Solving the Coupled Aerodynamic and Thermal Problem for Modeling the Air Distribution Devices with Perforated Plates. Energies, 2019, 12, 3488.	3.1	25
20	Parameter Identification of Technological Equipment for Ensuring the Reliability of the Vibration Separation Process. EAI/Springer Innovations in Communication and Computing, 2020, , 261-272.	1.1	25
21	Parametric Optimization of Fixtures for Multiaxis Machining of Parts. Lecture Notes in Mechanical Engineering, 2019, , 335-347.	0.4	23
22	Ensuring the Reliability of Pneumatic Classification Process for Granular Material in a Rhomb-Shaped Apparatus. Applied Sciences (Switzerland), 2019, 9, 1604.	2.5	17
23	Study on Interfacial Surface in Modified Spray Tower. Processes, 2019, 7, 532.	2.8	15
24	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
25	Effect of Superimposed Vibrations on Droplet Oscillation Modes in Prilling Process. Processes, 2020, 8, 566.	2.8	13
26	Using Regression Analysis for Automated Material Selection in Smart Manufacturing. Mathematics, 2022, 10, 1888.	2.2	13
27	Mathematical Modeling of Nutrient Release from Capsulated Fertilizers. Periodica Polytechnica: Chemical Engineering, 2020, 64, 562-568.	1.1	9
28	Sedimentation Tanks for Treating Rainwater: CFD Simulations and PIV Experiments. Energies, 2021, 14, 7852.	3.1	7
29	Development of Flexible Fixtures with Incomplete Locating: Connecting Rods Machining Case Study. Machines, 2022, 10, 493.	2.2	7
30	Mobile Applications in Engineering Based on the Technology of Augmented Reality. Lecture Notes in Mechanical Engineering, 2022, , 366-376.	0.4	6
31	Influence of Spray Nozzle Operating Parameters on the Fogging Process Implemented to Prevent the Spread of SARS-CoV-2 Virus. Energies, 2021, 14, 4280.	3.1	6
32	Improvement of Mathematical Model for Sedimentation Process. Energies, 2021, 14, 4561.	3.1	6
33	Automated Training of Convolutional Networks by Virtual 3D Models for Parts Recognition in Assembly Process. Lecture Notes in Mechanical Engineering, 2019, , 287-297.	0.4	5
34	The Experimental SMART Manufacturing System in SmartTechLab. Lecture Notes in Mechanical Engineering, 2022, , 228-238.	0.4	5
35	Locating Chart Choice Based on the Decision-Making Approach. Materials, 2022, 15, 3557.	2.9	5
36	Information System for Computer-Aided Fixture Design. EAI/Springer Innovations in Communication and Computing, 2019, , 121-132.	1.1	4

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37	The Mathematical Model for the Secondary Breakup of Dropping Liquid. Energies, 2020, 13, 6078.	3.1	4
38	Ensuring economic efficiency of flexible fixtures in multiproduct manufacturing. Engineering Management in Production and Services, 2021, 13, 53-62.	0.9	4
39	Digital Twin of Experimental Workplace for Quality Control with Cloud Platform Support. EAI/Springer Innovations in Communication and Computing, 2020, , 135-145.	1.1	4
40	Parameter identification of the Basset force acting on particles in fluid flow induced by the oscillating wall. Journal of Applied Mathematics and Computational Mechanics, 2019, 18, 53-63.	0.7	4
41	Fundamental Approach for Analysis of Dynamic Characteristics of Fixtures. EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2018, 4, 154366.	1.9	4
42	APPLICATION OF THE CFD SOFTWARE FOR MODELING THERMAL COMFORT IN SPORT HALL. MM Science Journal, 2020, 2020, 3723-3727.	0.4	4
43	Identification of the Interfacial Surface in Separation of Two-Phase Multicomponent Systems. Processes, 2020, 8, 306.	2.8	3
44	Modeling of Technological Processes for a Rectification Plant in Second-Generation Bioethanol Production. Processes, 2021, 9, 944.	2.8	3
45	Estimation of Wear Resistance for Multilayer Coatings Obtained by Nitrogenchroming. Metals, 2021, 11, 1153.	2.3	3
46	Computer-Aided Positioning of Elements of the System â€œFixture â€“ Workpieceâ€• , 2018, , .		3
47	Biomass Combustion Control in Small and Medium-Scale Boilers Based on Low Cost Sensing the Trend of Carbon Monoxide Emissions. Processes, 2021, 9, 2030.	2.8	3
48	Impact of Magnetic-Pulse and Chemical-Thermal Treatment on Alloyed Steelsâ€™ Surface Layer. Applied Sciences (Switzerland), 2022, 12, 469.	2.5	3
49	The Effect of Blade Angle Deviation on Mixed Inflow Turbine Performances. Applied Sciences (Switzerland), 2022, 12, 3781.	2.5	3
50	Materials Selection in Product Development: Challenges and Quality Management Tools. Lecture Notes in Mechanical Engineering, 2022, , 72-86.	0.4	3
51	Impact of Nitrocarburizing on Hardening of Reciprocating Compressorâ€™s Valves. Coatings, 2022, 12, 574.	2.6	3
52	Flow Modeling in a Vortex Chamber of a Liquidâ€“Steam Jet Apparatus. Processes, 2022, 10, 984.	2.8	3
53	Three-Dimensional Mathematical Model of the Liquid Film Downflow on a Vertical Surface. Energies, 2020, 13, 1938.	3.1	2
54	Methods and Algorithms for Calculating Nonlinear Oscillations of Rotor Systems. Lecture Notes in Mechanical Engineering, 2021, , 63-74.	0.4	2

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55	Improvement of Hydraulic Characteristics for Impellers Using the Finite Volume Analysis. EAI/Springer Innovations in Communication and Computing, 2021, , 161-174.	1.1	2
56	Investigation of Nonlinear Axial Rotor Oscillations of the Multistage Centrifugal Compressor with the Automatic Balancing Device. VÃ½robnÃ© inÅ¾inierstvo, 2013, 12, .	0.1	2
57	Comprehensive Approach for Identification of Nonlinear Stiffness Characteristics of Bearing Supports for the Oxidizer Turbopump of the Liquid Rocket Engine. Â½urnal inÅ¾enernih Nauk, 2018, 5, D6-D14.	0.6	2
58	Comprehensive Approach for Mathematical Modeling of Mechanical Systems: Fixture Design Case Study. , 2018, , .		2
59	Diagnostics of the Rotor-Stator Contact by Spectral Analysis of the Vibration State for Rotor Machines. Lecture Notes in Mechanical Engineering, 2022, , 521-534.	0.4	2
60	Intensification of mass transfer processes through the impact of the velocity gradient on hydrodynamics and stability of liquid droplets in a gas flow. Chemical Engineering Science, 2021, 235, 116470.	3.8	1
61	Small Parts Recognition by Convolutional Neural Networks with Implementation to Virtual Reality Devices for Assisted Assembly Tasks. EAI/Springer Innovations in Communication and Computing, 2022, , 185-196.	1.1	1
62	Two-Phase Turbulent Flow in the Separation Channel with an Oscillating Wall. Lecture Notes in Mechanical Engineering, 2020, , 570-581.	0.4	1
63	Technological Features of Locating Charts in Fixture Design. Lecture Notes in Networks and Systems, 2020, , 66-74.	0.7	1
64	Hydrodynamics of Two-Phase Upflow in a Pneumatic Classifier with the Variable Cross-Section. Lecture Notes in Mechanical Engineering, 2020, , 216-227.	0.4	1
65	Mathematical Model of the Fixture Flexibility Impact on Machining Accuracy of Levers. Acta Mechanica Slovaca, 2016, 20, 6-15.	0.1	1
66	Methodology of Experimental Research of Aeroelastic Interaction Between Two-Phase Flow and Deflecting Elements for Modular Separation Devices. Lecture Notes in Mechanical Engineering, 2020, , 489-499.	0.4	1
67	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
68	Multiaxis Machining of Fork-Type Parts: Fixture Design and Numerical Simulation. Lecture Notes in Networks and Systems, 2021, , 142-152.	0.7	0
69	Parameter Identification of the Heat Supply System in a Coach. Lecture Notes in Mechanical Engineering, 2021, , 643-653.	0.4	0
70	Classification of Separation Equipment by Design and Technological Features. EAI Endorsed Transactions on Energy Web, 0, , 170676.	0.4	0
71	Ensuring the Reliability of Separation Equipment Based on Parameter Identification of the Operation Process. EAI/Springer Innovations in Communication and Computing, 2020, , 207-216.	1.1	0
72	Technological Assurance of Manufacturing Effectiveness on CNC Machining Centers. Advances in Business Information Systems and Analytics Book Series, 2020, , 344-384.	0.4	0

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73	Parameter Identification of the Capillary Rising Process in Nanomaterials for Evaporative Cooling Applications. Lecture Notes in Mechanical Engineering, 2020, , 201-215.	0.4	0