

# Jozef Zajac

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

511  
citations

933447

10  
h-index

888059

17  
g-index

62  
all docs

62  
docs citations

62  
times ranked

452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring surface roughness of thin-walled components from steel C45 machining down and up milling. Measurement: Journal of the International Measurement Confederation, 2014, 58, 416-428.	5.0	48
2	Numerical simulation of the system "fixture-workpiece" for lever machining. International Journal of Advanced Manufacturing Technology, 2017, 91, 79-90.	3.0	27
3	Manufacturing Technology of Composite Materials"Principles of Modification of Polymer Composite Materials Technology Based on Polytetrafluoroethylene. Materials, 2017, 10, 377.	2.9	26
4	Using of computer integrated system for static tests of pipe conveyer belts. , 2012, , .		21
5	Experimental Study of Surface Roughness of Wood Plastic Composites after Turning. Advanced Materials Research, 0, 856, 108-112.	0.3	21
6	Quantifying the Mechanical Properties of Materials and the Process of Elastic-Plastic Deformation under External Stress on Material. Materials, 2015, 8, 7401-7422.	2.9	21
7	Thermal analysis and phase transformation behaviour during additive manufacturing of Ti"6Al"4V alloy. Materials Science and Technology, 2019, 35, 846-855.	1.6	20
8	CAM Software Products for Creation of Programs for CNC Machining. Lecture Notes in Electrical Engineering, 2012, , 421-425.	0.4	19
9	The structural design of 3D print head and execution of printing via the robotic arm ABB IRB 140. , 2018, , .		18
10	Implementation of Augmented Reality into the Training and Educational Process in Order to Support Spatial Perception in Technical Documentation. , 2019, , .		16
11	Programming CNC Machines Using Computer-Aided Manufacturing Software. Advanced Science Letters, 2013, 19, 369-373.	0.2	16
12	Study Influence of Plastic Deformation a New Extra Low Carbon Stainless Steels XCr17Ni7MoTiN under the Surface Finish when Drilling. Advanced Materials Research, 0, 538-541, 1312-1315.	0.3	15
13	Study of Surface Roughness of Machined Polymer Composite Material. International Journal of Polymer Science, 2015, 2015, 1-6.	2.7	15
14	Investigation of Surface Roughness after Turning of One Kind of the Bio-Material with Thermoplastic Matrix and Natural Fibers. Advanced Materials Research, 0, 941-944, 275-279.	0.3	14
15	Turning Bearing Rings and Determination of Selected Cutting Materials Durability. Advanced Science Letters, 2013, 19, 2486-2489.	0.2	12
16	Research of the Technological Parameters Importance for Plasma Arc Thermal Cutting. Applied Mechanics and Materials, 0, 110-116, 3742-3749.	0.2	10
17	Use of Thermovision for Monitoring Temperature Conveyor Belt of Pipe Conveyor. Applied Mechanics and Materials, 0, 683, 238-242.	0.2	10
18	Vorrichtung zum Messen des Abnutzungsgrades von Schneidwerkzeugen. TM Technisches Messen, 1995, 62, 8-11.	0.7	9

#	ARTICLE	IF	CITATIONS
19	Functional Properties of PTFE-Composites Produced by Mechanical Activation. Lecture Notes in Mechanical Engineering, 2020, , 391-401.	0.4	9
20	Experimental study of parameters influencing the damping of particulate, fibre-reinforced, hybrid, and sandwich composites. International Journal of Materials Research, 2020, 111, 688-697.	0.3	9
21	Assessment of Statistical Signification of Factors by Machining Inhomogeneous Materials â€“ WPC. Applied Mechanics and Materials, 0, 308, 165-169.	0.2	7
22	Comparison Measurement of the Distance between Axes of Holes with the Roundtest RA-120 and Thome PrÄzision-Rapid. Applied Mechanics and Materials, 0, 616, 284-291.	0.2	7
23	Prediction of Cutting Material Durability by $T = f(vc)$ Dependence for Turning Processes. Processes, 2020, 8, 789.	2.8	7
24	Machining of Non-Homogeneous Composite Material with Natural Fibers Reinforcement and HDPE Matrix. Key Engineering Materials, 0, 581, 95-99.	0.4	6
25	Verification of Process Fluids in Mass Production. Key Engineering Materials, 0, 581, 554-559.	0.4	6
26	Short-Term Testing of Cutting Materials Using the Method of Interrupted Cut. Applied Mechanics and Materials, 0, 616, 236-243.	0.2	6
27	Imperfections generation in finite element models of welding. Science and Technology of Welding and Joining, 2018, 23, 148-157.	3.1	6
28	An integrated working environment using advanced augmented reality techniques. , 2017, , .		5
29	Influence of Residual Stress Induced in Steel Material on Eddy Currents Response Parameters. Lecture Notes in Mechanical Engineering, 2019, , 551-560.	0.4	5
30	Turning of Composite Material with Organic Reinforcement (Wood Plastic Composite). Advanced Science Letters, 2013, 19, 877-880.	0.2	5
31	The Effect of the Carbon Fiber Content on the Flexural Strength of Polymer Concrete Testing Samples and the Comparison of Polymer Concrete and U-Shaped Steel Profile Damping. Materials, 2019, 12, 1917.	2.9	4
32	Information System for Computer-Aided Fixture Design. EAI/Springer Innovations in Communication and Computing, 2019, , 121-132.	1.1	4
33	The Comprehensive Comparison of the Selected Cutting Materials with Standard ISO 3685 in Machining Process of Steel C60. Applied Mechanics and Materials, 0, 718, 93-98.	0.2	3
34	Evaluation of share material after turning of wood plastic composite. , 2015, , .		3
35	THE CORRELATION OF PARAMETERS MEASURED ON ROTARY MACHINE AFTER REPARATION OF DISREPAIR STATE. MM Science Journal, 2016, 2016, 1244-1248.	0.4	3
36	Identification of Internal Residual Stress of Steel after Milling by Ultrasound. Manufacturing Technology, 2014, 14, 573-578.	1.4	3

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37	Coherencies of Temperature and Surface Roughness by Milling Procedure. Key Engineering Materials, 2013, 581, 348-353.	0.4	2
38	The Chip in the Up and Down Milling Process. Advanced Materials Research, 0, 856, 379-383.	0.3	2
39	Measurement of the Distance between Axes of Holes with the Roundtest RA-120. Applied Mechanics and Materials, 0, 718, 65-70.	0.2	2
40	Study on Edgetrimming of Holes in the Thick Steel Plates by Metal Plastic Forming Technology. Key Engineering Materials, 0, 669, 87-94.	0.4	2
41	Preliminary Study of Residual Stress Measurement Using Eddy Currents Phasor Angle. Lecture Notes in Mechanical Engineering, 2019, , 386-397.	0.4	2
42	MONITORING INFLUENCE OF SELECTED PARAMETERS ON SURFACE QUALITY AFTER POLYMER POWDER COATING. MM Science Journal, 2016, 2016, 1077-1081.	0.4	2
43	Using Software Zelio Soft in Educational Process to Simulation Control Programs for Intelligent Relays. Technological Engineering, 2016, 13, 28-30.	0.3	2
44	Up Milling Technology and its Outputs. Applied Mechanics and Materials, 2014, 616, 268-275.	0.2	1
45	Study of Welding Parameters Effect on the Weld Quality for Structural Steel S235 J0. Key Engineering Materials, 0, 669, 79-86.	0.4	1
46	AUTOMATIZATION PROCESS OF DESIGNING THE TECHNOLOGICAL DOCUMENTATION BY TOOLS OF COMPREHENSIVE CAD-CAM-CAE SYSTÅ%M. MM Science Journal, 2016, 2016, 942-946.	0.4	1
47	Identification of topography of surfaces created by turning biomaterials with optical profilometry. BioResources, 2020, 15, 2483-2494.	1.0	1
48	Study of the subsurface layers of the structural ceramics WC - Co alloyed by laser. , 2013, , ,		0
49	The Evaluation of the up and down Milling Based on its Chip. Advanced Materials Research, 2014, 941-944, 1943-1946.	0.3	0
50	Impact of Cutting Speed on the Resultant Durability of Cutting Tool in Machining Process of Steel C45. Key Engineering Materials, 0, 669, 294-301.	0.4	0
51	Comparison of Software and Calculated Correction of the Tip Radius of Turning Tool for Control System FANUC. Key Engineering Materials, 0, 669, 270-277.	0.4	0
52	Evaluation of the Longitudinal Roughness of the Thin-Walled Cooler for the Robot Control System Made Using CAM Programming. Lecture Notes in Mechanical Engineering, 2019, , 285-296.	0.4	0
53	Simulation of Air Flow on the Bodywork Automobile with Direct and Side Load. Lecture Notes in Mechanical Engineering, 2019, , 228-242.	0.4	0
54	Critical Values of Some Probability Distributions and Standard Numerical Methods. EAI/Springer Innovations in Communication and Computing, 2019, , 61-69.	1.1	0

#	ARTICLE	IF	CITATIONS
55	Evaluation of the Transverse Roughness of the Outer and Inner Surfaces of the Thin-Walled Components Produced by Milling. EAI/Springer Innovations in Communication and Computing, 2019, , 353-364.	1.1	0
56	Finite element analysis of multipass welding using LTT filler material. AIP Conference Proceedings, 2021, , .	0.4	0
57	Imperfections for simulations of weld-induced buckling. AIP Conference Proceedings, 2021, , .	0.4	0
58	Comparison of transverse roughness of the outer surfaces of thin-walled components manufactured using various by milling CAM software. , 2017, , .		0
59	Calculation of critical values of several probability distributions using standard numerical methods. , 2017, , .		0
60	Chemical Management in Automotive and Mass Industry. EAI/Springer Innovations in Communication and Computing, 2020, , 161-174.	1.1	0