

# Martin Pollák

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

216  
citations

1307594

7  
h-index

1199594

12  
g-index

46  
all docs

46  
docs citations

46  
times ranked

153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Research and application of methods of technical diagnostics for the verification of the design node. Measurement: Journal of the International Measurement Confederation, 2016, 94, 245-253.	5.0	29
2	The structural design of 3D print head and execution of printing via the robotic arm ABB IRB 140., 2018, , .		18
3	Measurement of unidirectional pose accuracy and repeatability of the collaborative robot UR5. Advances in Mechanical Engineering, 2020, 12, 168781402097289.	1.6	18
4	Proposal of the Knowledge Application Environment of Calculating Operational Parameters for Conventional Machining Technology. Key Engineering Materials, 0, 669, 95-102.	0.4	13
5	The Parameter Correlation of Acoustic Emission and High-Frequency Vibrations in the Assessment Process of the Operating State of the Technical System. Acta Mechanica Et Automatica, 2016, 10, 112-116.	0.6	13
6	Research and Correlation of Diagnostic Methods for Assessment of the State of Oil Filling in Cycloid Gearbox. Advances in Materials Science and Engineering, 2015, 2015, 1-9.	1.8	9
7	The contactless measuring of the dimensional attrition of the cutting tool and roughness of machined surface. International Journal of Advanced Manufacturing Technology, 2016, 86, 437-449.	3.0	9
8	Study of the Press Fit Bearing-Shaft Joint Dimensional Parameters by Analytical and Numerical Approach. Advances in Materials Science and Engineering, 2018, 2018, 1-10.	1.8	9
9	Research and analysis of stress distribution in multilayers of coated tools. International Journal of Materials Research, 2017, 108, 495-506.	0.3	9
10	Research on impacts of mechanical vibrations on the production machine to its rate of change of technical state. Advances in Mechanical Engineering, 2016, 8, 168781401665577.	1.6	8
11	Examining the Effect of Alignment of the Rotor of the Emissions Exhaust Fan on Its Operating Parameters. Advances in Materials Science and Engineering, 2019, 2019, 1-13.	1.8	7
12	Assessment of Production Process Capability in the Serial Production of Components for the Automotive Industry. Management Systems in Production Engineering, 2019, 27, 255-258.	1.1	7
13	MACROSTRUCTURE DIGITALIZATION OF THE ROADWAY SURFACE PROFILES. MM Science Journal, 2019, 2019, 2839-2844.	0.4	6
14	Feasibility of Predictive Models for the Quality of Additive Manufactured Components Based on Artificial Neural Networks. Machines, 2022, 10, 128.	2.2	6
15	Determination of Methodology and Research of the Influence of the Trial Run of High-Precision Reducers on the Change of Their Characterizing Properties. Applied Sciences (Switzerland), 2021, 11, 3859.	2.5	5
16	PRODUCTION OF FIBER AS AN INPUT MATERIAL FOR THE 3D PRINTING PROCESS. MM Science Journal, 2021, 2021, 4414-4419.	0.4	5
17	SURFACE FINISHING OF 3D PRINTED SAMPLE MANUFACTURED BY FUSED DEPOSITION MODELING. MM Science Journal, 2017, 2017, 1981-1985.	0.4	4
18	Utilization of Generative Design Tools in Designing Components Necessary for 3D Printing Done by a Robot. TEM Journal, 2020, , 868-872.	0.7	4

#	ARTICLE	IF	CITATIONS
19	Structural Design and Material Cutting Using a Laser End Effector on a Robot Arm. TEM Journal, 2020, , 1455-1459.	0.7	4
20	Prospective systems and technologies for the treatment of wastewater containing oil substances. Clean Technologies and Environmental Policy, 2016, 18, 161-170.	4.1	3
21	Application of Physical Methods for the Detection of a Thermally Degraded Recycled Material in Plastic Parts Made of Polypropylene Copolymer. Materials, 2021, 14, 552.	2.9	3
22	THE CORRELATION OF PARAMETERS MEASURED ON ROTARY MACHINE AFTER REPAIR OF DISREPAIR STATE. MM Science Journal, 2016, 2016, 1244-1248.	0.4	3
23	Research into the Impact of Spindle Speed and Feed Rate Changes on the Life of a Deep-Drilling Technology Tool. Machines, 2022, 10, 268.	2.2	3
24	Application of industrial robot in 5-axis milling process. MATEC Web of Conferences, 2019, 299, 04004.	0.2	2
25	Monitoring of the Impacts of Used Materials for Resulting Attributes of an Electric Motor Created via Additive Technology. TEM Journal, 2020, , 826-830.	0.7	2
26	Simulation of Weld Elbows Hot Forming Process. International Journal of Modeling and Optimization, 2016, 6, 77-80.	0.4	2
27	Topological Optimization of a Supporting Part of a 3D Printer Pad. Manufacturing Technology, 2020, 20, 492-499.	1.4	2
28	Design and Implementation of 3D Printing Using a Universal Printing System on the Robot Arm UR5. TEM Journal, 2021, , 1895-1899.	0.7	2
29	Use of Generative Design Tools in the Production of Design Products using 3D Printing Technology. TEM Journal, 2022, , 249-255.	0.7	2
30	Comparison of process documentation generation in PTC Creo and NX systems. MATEC Web of Conferences, 2017, 137, 06004.	0.2	1
31	Implementation of a Recycled Polypropylene Homopolymer Material for Use in Additive Manufacturing. Sustainability, 2021, 13, 4990.	3.2	1
32	AUTOMATIZATION PROCESS OF DESIGNING THE TECHNOLOGICAL DOCUMENTATION BY TOOLS OF COMPREHENSIVE CAD-CAM-CAE SYSTEM. MM Science Journal, 2016, 2016, 942-946.	0.4	1
33	MODIFICATION OF PRODUCTION PROCESS STRUCTURE AND OPTIMIZATION OF MATERIAL FLOW FOR SELECTED TYPES OF COMPONENTS COMPUTER SIMULATION MEANS. MM Science Journal, 2017, 2017, 1895-1900.	0.4	1
34	Behavior of the Beam with a Lightweight Porous Structure in Its Core. Lecture Notes in Mechanical Engineering, 2019, , 502-510.	0.4	1
35	Technical and Economic Description of the Research on a Measuring Device for Continuous Measurement of the Diameter and Vibration of the Workpiece during the Machining Process. Advances in Materials Science and Engineering, 2021, 2021, 1-9.	1.8	1
36	Non-Destructive Diagnostics of Hard-to-Access Locations Through the Application of Spatial Dimension. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Implementation of innovative 10 igitalization methods in reverse engineering. , 2018, , .		0
38	Use of Neural Networks in Tool Wear Prediction. MATEC Web of Conferences, 2019, 299, 04003.	0.2	0
39	Experimental Production of Composite Fiber for Additive Production Technology. TEM Journal, 2021, , 939-946.	0.7	0
40	Monitoring and Evaluation of the Production Process of Automotive Connectors. TEM Journal, 2021, , 900-907.	0.7	0
41	NEW TRENDS IN THE APPROACH OF TEACHING ROBOTICS IN MANUFACTURING TECHNOLOGIES. , 2021, , .		0
42	Use of a 3D Model for Automatic Generation of Template Matching Algorithms. TEM Journal, 2021, , 1363-1369.	0.7	0
43	ROBOT PROGRAMMING VIA ARDUINO MICROCONTROLLER AND ACCESSORIES IN THE EDUCATIONAL PROCESS. , 2021, , .		0