

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 | Use of Generative Design Tools in the Production of Design Products using 3D Printing Technology. TEM Journal, 2022, , 249-255. | 0.7 | 2 |
| 2 | Feasibility of Predictive Models for the Quality of Additive Manufactured Components Based on Artificial Neural Networks. Machines, 2022, 10, 128. | 2.2 | 6 |
| 3 | 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 |
| 4 | 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 |
| 5 | Implementation of a Recycled Polypropylene Homopolymer Material for Use in Additive Manufacturing. Sustainability, 2021, 13, 4990. | 3.2 | 1 |
| 6 | 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 |
| 7 | Experimental Production of Composite Fiber for Additive Production Technology. TEM Journal, 2021, , 939-946. | 0.7 | 0 |
| 8 | Monitoring and Evaluation of the Production Process of Automotive Connectors. TEM Journal, 2021, , 900-907. | 0.7 | 0 |
| 9 | PRODUCTION OF FIBER AS AN INPUT MATERIAL FOR THE 3D PRINTING PROCESS. MM Science Journal, 2021, 2021, 4414-4419. | 0.4 | 5 |
| 10 | NEW TRENDS IN THE APPROACH OF TEACHING ROBOTICS IN MANUFACTURING TECHNOLOGIES. , 2021, , . | | 0 |
| 11 | Use of a 3D Model for Automatic Generation of Template Matching Algorithms. TEM Journal, 2021, , 1363-1369. | 0.7 | 0 |
| 12 | ROBOT PROGRAMMING VIA ARDUINO MICROCONTROLLER AND ACCESSORIES IN THE EDUCATIONAL PROCESS. , 2021, , . | | 0 |
| 13 | Design and Implementation of 3D Printing Using a Universal Printing System on the Robot Arm UR5. TEM Journal, 2021, , 1895-1899. | 0.7 | 2 |
| 14 | 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 |
| 15 | Measurement of unidirectional pose accuracy and repeatability of the collaborative robot UR5. Advances in Mechanical Engineering, 2020, 12, 168781402097289. | 1.6 | 18 |
| 16 | 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 |
| 17 | Utilization of Generative Design Tools in Designing Components Necessary for 3D Printing Done by a Robot. TEM Journal, 2020, , 868-872. | 0.7 | 4 |
| 18 | Topological Optimization of a Supporting Part of a 3D Printer Pad. Manufacturing Technology, 2020, 20, 492-499. | 1.4 | 2 |

| # | 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 | 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 |
| 21 | Use of Neural Networks in Tool Wear Prediction. MATEC Web of Conferences, 2019, 299, 04003. | 0.2 | 0 |
| 22 | Application of industrial robot in 5-axis milling process. MATEC Web of Conferences, 2019, 299, 04004. | 0.2 | 2 |
| 23 | MACROSTRUCTURE DIGITALIZATION OF THE ROADWAY SURFACE PROFILES. MM Science Journal, 2019, 2019, 2839-2844. | 0.4 | 6 |
| 24 | Behavior of the Beam with a Lightweight Porous Structure in Its Core. Lecture Notes in Mechanical Engineering, 2019, , 502-510. | 0.4 | 1 |
| 25 | 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 |
| 26 | Non-Destructive Diagnostics of Hard-to-Access Locations Through the Application of Spatial Dimension. , 2018, , . | | 0 |
| 27 | Implementation of innovative digitalization methods in reverse engineering. , 2018, , . | | 0 |
| 28 | The structural design of 3D print head and execution of printing via the robotic arm ABB IRB 140. , 2018, , . | | 18 |
| 29 | 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 |
| 30 | Comparison of process documentation generation in PTC Creo and NX systems. MATEC Web of Conferences, 2017, 137, 06004. | 0.2 | 1 |
| 31 | SURFACE FINISHING OF 3D PRINTED SAMPLE MANUFACTURED BY FUSED DEPOSITION MODELING. MM Science Journal, 2017, 2017, 1981-1985. | 0.4 | 4 |
| 32 | Research and analysis of stress distribution in multilayers of coated tools. International Journal of Materials Research, 2017, 108, 495-506. | 0.3 | 9 |
| 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 | 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 |
| 35 | 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Prospective systems and technologies for the treatment of wastewater containing oil substances. Clean Technologies and Environmental Policy, 2016, 18, 161-170. | 4.1 | 3 |
| 38 | 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 |
| 39 | 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 |
| 40 | THE CORRELATION OF PARAMETERS MEASURED ON ROTARY MACHINE AFTER REPAIR OF DISREPAIR STATE. MM Science Journal, 2016, 2016, 1244-1248. | 0.4 | 3 |
| 41 | Simulation of Weld Elbows Hot Forming Process. International Journal of Modeling and Optimization, 2016, 6, 77-80. | 0.4 | 2 |
| 42 | 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 |
| 43 | Proposal of the Knowledge Application Environment of Calculating Operational Parameters for Conventional Machining Technology. Key Engineering Materials, 0, 669, 95-102. | 0.4 | 13 |