

# Tomasz Bartkowiak

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

425  
citations

840776

11  
h-index

752698

20  
g-index

35  
all docs

35  
docs citations

35  
times ranked

297  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Multiscale analyses and characterizations of surface topographies. CIRP Annals - Manufacturing Technology, 2018, 67, 839-862.  | 3.6 | 137       |
| 2  | Contact angle analysis of surface topographies created by electric discharge machining. Tribology International, 2021, 163, 107139.  | 5.9 | 31        |
| 3  | Analysis of Surface Microgeometry Created by Electric Discharge Machining. Materials, 2020, 13, 3830.  | 2.9 | 25        |
| 4  | A Characterization of Processâ€œSurface Texture Interactions in Micro-Electrical Discharge Machining Using Multiscale Curvature Tensor Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .          | 2.2 | 21        |
| 5  | Multiscale Characterizations of Surface Anisotropies. Materials, 2020, 13, 3028.   | 2.9 | 21        |
| 6  | Multiscale Analysis of Surface Texture Quality of Models Manufactured by Laser Powder-Bed Fusion Technology and Machining from 316L Steel. Materials, 2021, 14, 2794.  | 2.9 | 21        |
| 7  | Multiscale 3D Curvature Analysis of Processed Surface Textures of Aluminum Alloy 6061 T6. Materials, 2019, 12, 257.  | 2.9 | 18        |
| 8  | Improving the performance of a filling line based on simulation. IOP Conference Series: Materials Science and Engineering, 2016, 145, 042024.  | 0.6 | 17        |
| 9  | Establishing functional correlations between multiscale areal curvatures and coefficients of friction for machined surfaces. Surface Topography: Metrology and Properties, 2018, 6, 034002.  | 1.6 | 16        |
| 10 | Revisiting lithic edge characterization with microCT: multiscale study of edge curvature, re-entrant features, and profile geometry on Olduvai Gorge quartzite flakes. Archaeological and Anthropological Sciences, 2022, 14, 1.                   | 1.8 | 14        |
| 11 | Discharge Energy as a Key Contributing Factor Determining Microgeometry of Aluminum Samples Created by Electrical Discharge Machining. Crystals, 2021, 11, 1371.   | 2.2 | 13        |
| 12 | Influence of microgeometry of iron surface on the oxidation process â€œ A comparison of multiscale geometric methods and their applicability. Applied Surface Science, 2020, 527, 146838.  | 6.1 | 11        |
| 13 | Mechanical Performance of a Polyaxial Locking Plate and the Influence of Screw Angulation in a Fracture Gap Model. Veterinary and Comparative Orthopaedics and Traumatology, 2020, 33, 036-044.  | 0.5 | 10        |
| 14 | Modeling Performance of a Production Line and Optimizing Its Efficiency by Means of Genetic Algorithm. , 2014, , .   |     | 8         |
| 15 | Computer-aided alignment of castings and machining optimization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 485-492.  | 2.1 | 8         |
| 16 | Reducing negative impact of machine failures on performance of filling and packaging production line - a simulative study. , 2016, , .   |     | 7         |
| 17 | Multi-scale curvature tensor analysis of machined surfaces. Archives of Mechanical Technology and Materials, 2016, 36, 44-50.  | 0.3 | 7         |
| 18 | What Is the Cost of Off-Axis Insertion of Locking Screws? A Biomechanical Comparison of a 3.5â€œmm Fixed-Angle and 3.5â€œmm Variable-Angle Stainless Steel Locking Plate Systems. Veterinary and Comparative Orthopaedics and Traumatology, 0, , . | 0.5 | 7         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 3D multiscale curvature analysis of tool edges as an indicator of cereal harvesting intensity. Journal of Archaeological Science: Reports, 2020, 33, 102523.  | 0.5 | 6         |
| 20 | How Do the Locking Screws Lock? A Micro-CT Study of 3.5-mm Locking Screw Mechanism. Veterinary and Comparative Orthopaedics and Traumatology, 2020, 33, 316-326.  | 0.5 | 6         |
| 21 | Kinematic Model of a Logistic Train with a Double Ackermann Steering System. International Journal of Simulation Modelling, 2021, 20, 243-254.  | 1.3 | 4         |
| 22 | Kinematics of a Novel Type Positioning Table for Cast Alignment on Machine Tool. , 2015, , .  |     | 3         |
| 23 | Kinematic model of multiple trailers on a tractor system for production logistics applications. Archives of Mechanical Technology and Materials, 2019, 39, 16-25.   | 0.3 | 3         |
| 24 | A Simulative Study Approach for Improving the Efficiency of Production Process of Floorboard Middle Layer. Lecture Notes in Mechanical Engineering, 2018, , 13-22.  | 0.4 | 2         |
| 25 | Validation of simulation model of the filling line failures / Walidacja modelu symulacyjnego uszkodzeń linii napełniania. Journal of KONBiN, 2016, 38, 179-200.   | 0.4 | 2         |
| 26 | Discrimination of Surface Topographies Created by Two-Stage Process by Means of Multiscale Analysis. Materials, 2021, 14, 7044.   | 2.9 | 2         |
| 27 | Application of Order Statistics in the Evaluation of Flatness Error: Sampling Problem. , 2017, , .  |     | 1         |
| 28 | Novel Type of Biaxial Wheel-Type Haptic Input Device With MR-Brakes to Control Hydraulic Multi-Axis Manipulators. , 2017, , .   |     | 1         |
| 29 | Novel approach to semi-automated warehouse for manufacturing: design and simulation. IOP Conference Series: Materials Science and Engineering, 2019, 591, 012040.   | 0.6 | 1         |
| 30 | Dynamic model of a logistic train with different steering systems and tire models. Latin American Journal of Solids and Structures, 2021, 18, .   | 1.0 | 1         |
| 31 | Application of a simulation model to the prognosis of material loss in wood processing. PLoS ONE, 2021, 16, e0246325.   | 2.5 | 1         |
| 32 | Numerical and experimental investigations of the dynamics of a variable mass pendulum. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2124-2132. | 2.1 | 0         |
| 33 | Characterization of 3D Surface Texture Directionality Using Multi-Scale Curvature Tensor Analysis. , 2017, , .  |     | 0         |
| 34 | A design of an automated compact positioning system for workpiece positioning in machine tool workspace. Procedia CIRP, 2019, 81, 186-191.  | 1.9 | 0         |
| 35 | Automated System for Workpiece Leveling on a Machine Tool. Lecture Notes in Mechanical Engineering, 2019, , 25-36.  | 0.4 | 0         |