

# Dirk Biermann

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

312  
papers

4,666  
citations

28  
h-index

58  
g-index

332  
ext. papers

5,416  
ext. citations

2.4  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
312	Development and analysis of a mechatronic system for in-process monitoring and compensation of straightness deviation in BTA deep hole drilling. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 170, 108838	7.8	0
311	Lightweight FRP Drill Tubes for Vibration Damping in BTA Deep Hole Drilling. <i>Lecture Notes in Production Engineering</i> , <b>2022</b> , 221-229	0	
310	Modeling of the Fluid Flow and Design of an Experimental Test Stand for Ejector Deep Hole Drilling Processes. <i>Lecture Notes in Production Engineering</i> , <b>2022</b> , 186-194	0	
309	Corrosion Fatigue Behavior of Twin Wire Arc Sprayed and Machine Hammer Peened ZnAl4 Coatings on S355 J2C + C Substrate. <i>Corrosion and Materials Degradation</i> , <b>2022</b> , 3, 127-141	2.6	0
308	Adapting the Surface Integrity of High-Speed Steel Tools for Sheet-Bulk Metal Forming. <i>Journal of Manufacturing and Materials Processing</i> , <b>2022</b> , 6, 37	2.2	0
307	Effects of steel fibres on hammer drilling in concrete for the installation of post-installed anchors. <i>Journal of Building Engineering</i> , <b>2022</b> , 52, 104395	5.2	0
306	The Effect of Argon as Atomization Gas on the Microstructure, Machine Hammer Peening Post-Treatment, and Corrosion Behavior of Twin Wire Arc Sprayed (TWAS) ZnAl4 Coatings. <i>Coatings</i> , <b>2022</b> , 12, 32	2.9	1
305	Analysis of the cutting fluid behavior with a modified micro single-lip deep hole drilling tool. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2022</b> , 38, 93-104	3.4	0
304	Measurement and analysis of the thermal load in the bore subsurface zone during BTA deep hole drilling. <i>Procedia CIRP</i> , <b>2022</b> , 107, 375-380	1.8	
303	Analysis of the cooling lubricant flow during ejector deep hole drilling by in-process volume flow and pressure measurements. <i>Procedia CIRP</i> , <b>2022</b> , 107, 227-232	1.8	
302	Microstructure analysis of single-lip deep hole drilled bores by electron backscatter diffraction and magnetic Barkhausen noise. <i>Procedia CIRP</i> , <b>2022</b> , 108, 740-745	1.8	1
301	Investigation of the thermomechanical loads on the bore surface during single-lip deep hole drilling of steel components. <i>Procedia CIRP</i> , <b>2022</b> , 108, 805-810	1.8	0
300	Modification of Surface and Sub-Surface Conditions of Cemented Carbide by Pressurized Air Wet Abrasive Jet Machining for PVD Coatings. <i>Procedia CIRP</i> , <b>2022</b> , 108, 372-377	1.8	
299	Influence of the cutting edge on the surface integrity in BTA deep hole drilling - part 2: Residual stress, microstructure and microhardness. <i>Procedia CIRP</i> , <b>2022</b> , 108, 276-281	1.8	0
298	Influence of the cutting edge on the surface integrity in BTA deep hole drilling - part 1: Design of experiments, roughness and forces. <i>Procedia CIRP</i> , <b>2022</b> , 108, 329-334	1.8	
297	State-of-The-Art Cooling and Lubrication for Machining Inconel 718. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	3.3	5
296	Concept of a Mechatronic System for Targeted Drill Head Direction and Angular Alignment Control in BTA Deep Hole Drilling. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 215-224	0	1

295	Towards the Prediction of Compliance Influences on Shape Deviations in Internal Traverse Grinding. <i>Lecture Notes in Production Engineering, 2021, 304-314</i>	0	
294	Functionalization of Tool Topographies for Material Flow Control and Tool Life Optimization in Hot Sheet-Bulk Metal Forming I A Concept Study. <i>Lecture Notes in Production Engineering, 2021, 553-567</i>	0	0
293	Machining of Molds with Filigree Structures for Sheet-Bulk Metal Forming. <i>Lecture Notes in Production Engineering, 2021, 147-171</i>	0	
292	Generation of Predetermined Surface Structures by Simulation Based Process and Tool Design When Milling Free-Formed Surfaces. <i>Lecture Notes in Production Engineering, 2021, 172-191</i>	0	
291	Development of a concept for the use of low-temperature emulsion in drilling of Inconel 718. <i>Procedia CIRP, 2021, 104, 774-779</i>	1.8	0
290	Analysis of the Influence of Surface Modifications on the Fatigue Behavior of Hot Work Tool Steel Components. <i>Materials, 2021, 14,</i>	3.5	1
289	Thermomechanical Impact of the Single-Lip Deep Hole Drilling on the Surface Integrity on the Example of Steel Components. <i>Journal of Manufacturing and Materials Processing, 2021, 5, 120</i>	2.2	3
288	Influence of Temperature in Front Face Flow Drilling and Thread Forming of Lightweight Cast Alloys. <i>Procedia CIRP, 2021, 104, 780-785</i>	1.8	0
287	Adapted Process Strategies in Front Face Flow Drilling and Thread Forming of Lightweight Casting Materials. <i>Procedia CIRP, 2021, 103, 213-218</i>	1.8	0
286	Impact of cutting parameters on the mechanical properties of BTA deep drilled components under quasi-static compression. <i>Procedia CIRP, 2021, 103, 207-212</i>	1.8	1
285	A Numerical-Experimental Study on Orthogonal Cutting of AISI 1045 Steel and Ti6Al4V Alloy: SPH and FEM Modeling with Newly Identified Friction Coefficients. <i>Metals, 2021, 11, 1683</i>	2.3	4
284	Thermally Assisted Machine Hammer Peening of Arc-Sprayed ZnAl-Based Corrosion Protective Coatings. <i>Journal of Manufacturing and Materials Processing, 2021, 5, 109</i>	2.2	1
283	Influence of Process Parameters and Initial Surface on Magnetic Abrasive Finishing of Flat Surfaces on CNC Machine Tools. <i>Journal of Manufacturing and Materials Processing, 2021, 5, 108</i>	2.2	1
282	Influence of a Discontinuous Process Strategy on Microstructure and Microhardness in Drilling Inconel 718. <i>Journal of Manufacturing and Materials Processing, 2021, 5, 43</i>	2.2	2
281	An Approach to Detect White Spots during Pre-Turning of DA718 Components. <i>Journal of Manufacturing and Materials Processing, 2021, 5, 57</i>	2.2	1
280	Simulation Based Prediction of Compliance Induced Shape Deviations in Internal Traverse Grinding. <i>Journal of Manufacturing and Materials Processing, 2021, 5, 60</i>	2.2	2
279	Material defects detection based on in-process measurements in milling of Ti6246 alloy. <i>Procedia CIRP, 2021, 99, 165-170</i>	1.8	1
278	Simulative design of constraints for targeted restriction of chip thickness deviations when machining titanium alloy Ti6Al4V. <i>Procedia CIRP, 2021, 102, 85-90</i>	1.8	1

277	Characterisation and modelling of friction depending on the tool topography and the intermediate medium. <i>Procedia CIRP</i> , <b>2021</b> , 102, 435-440	1.8	0
276	Enhanced Surface Quality of Internal Machined Contours. <i>Procedia CIRP</i> , <b>2021</b> , 96, 313-318	1.8	
275	A modified tool design for the drilling of high-performance aerospace materials. <i>CIRP Annals - Manufacturing Technology</i> , <b>2021</b> , 70, 83-86	4.9	1
274	Simulation and modeling of the residual stress state in the sub-surface zone of BTA deep-hole drilled specimens with eigenstrain theory. <i>Procedia CIRP</i> , <b>2021</b> , 102, 150-155	1.8	3
273	Chip formation simulation and analysis of the mechanical loads during micro single-lip deep hole drilling of Inconel 718 with varying cooling lubricant pressure. <i>Production Engineering</i> , <b>2021</b> , 15, 299-309	1.9	0
272	Modelling of the friction in the chip formation zone depending on the rake face topography. <i>Wear</i> , <b>2021</b> , 477, 203802	3.5	2
271	Experimental analysis of tilt angle-dependent dynamic properties of a 5-axis milling center. <i>Manufacturing Letters</i> , <b>2021</b> , 29, 47-51	4.5	1
270	Influence of pre-drilling on hardness and tensile failure of formed internal threads in thin-walled AZ91 cast alloys. <i>Engineering Failure Analysis</i> , <b>2021</b> , 105783	3.2	0
269	Minimisation of Pose-Dependent Regenerative Vibrations for 5-Axis Milling Operations. <i>Journal of Manufacturing and Materials Processing</i> , <b>2021</b> , 5, 99	2.2	1
268	Cutting-fluid flow with chip evacuation during deep-hole drilling with twist drills. <i>European Journal of Mechanics, B/Fluids</i> , <b>2021</b> , 89, 473-484	2.4	3
267	Investigation of coolant distribution of bottle boring systems with computational fluid dynamics simulation. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2021</b> , 35, 259-267	3.4	0
266	Future research directions in the machining of Inconel 718. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 297, 117260	5.3	15
265	Adaptive sampling point planning for free-form surface inspection under multi-geometric constraints. <i>Precision Engineering</i> , <b>2021</b> , 72, 95-101	2.9	3
264	Structured and textured cutting tool surfaces for machining applications. <i>CIRP Annals - Manufacturing Technology</i> , <b>2021</b> , 70, 495-518	4.9	11
263	Influence of Tailored Surfaces and Superimposed-Oscillation on Sheet-Bulk Metal Forming Operations. <i>Journal of Manufacturing and Materials Processing</i> , <b>2020</b> , 4, 41	2.2	6
262	Influence of the process parameters and forces on the bore sub-surface zone in BTA deep-hole drilling of AISI 4140 and AISI 304 L. <i>Procedia CIRP</i> , <b>2020</b> , 87, 41-46	1.8	6
261	Design and optimization of energy-efficient milling processes using a geometric physically-based process simulation system. <i>Procedia CIRP</i> , <b>2020</b> , 88, 270-275	1.8	0
260	Conduction-Based Thermally Assisted Micromilling Process for Cutting Difficult-to-Machine Materials. <i>Journal of Manufacturing and Materials Processing</i> , <b>2020</b> , 4, 34	2.2	3

259	Simulative analyses focused on the changes in cutting fluid supply of twist drills with a modified flank face geometry. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 180, 105650	5.5	3
258	A Universal Pocket Plunge Milling Method to Decrease the Maximum Engagement Angle. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	3.3	4
257	Influence of cutting parameters on the formation of white etching layers in BTA deep hole drilling. <i>TM Technisches Messen</i> , <b>2020</b> , 87, 674-682	0.7	7
256	Effect of machine hammer peening on the surface integrity of a ZnAl-based corrosion protective coating. <i>MATEC Web of Conferences</i> , <b>2020</b> , 318, 01008	0.3	2
255	Influence of the Feed Rate in the Single-Lip Deep Hole Drilling Process on the Surface Integrity of Steel Components. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 198-212	0.4	4
254	Tribological investigation of surface structures processed by high-feed milling on HVOF sprayed WC-12Co coatings. <i>Surface and Coatings Technology</i> , <b>2020</b> , 395, 125945	4.4	1
253	In-situ measurement of rake face temperatures in orthogonal cutting. <i>CIRP Annals - Manufacturing Technology</i> , <b>2020</b> , 69, 61-64	4.9	12
252	Chip formation and phase transformation in orthogonal machining of NiTi shape memory alloy: microstructure-based modelling and experimental validation. <i>CIRP Annals - Manufacturing Technology</i> , <b>2020</b> , 69, 85-88	4.9	2
251	Study on machinability of additively manufactured and conventional titanium alloys in micro-milling process. <i>Precision Engineering</i> , <b>2020</b> , 62, 1-9	2.9	27
250	Tribological studies on multi-coated forming tools. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 49, 141-153	5	9
249	Effect of edge preparation technologies on cutting edge properties and tool performance. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 1823-1838	3.2	8
248	In-process compensation of straightness deviation in BTA deep hole drilling using experimental and simulative analysis. <i>Procedia CIRP</i> , <b>2020</b> , 93, 1417-1422	1.8	2
247	Disturbance of the Regenerative Effect by Use of Milling Tools Modified with Asymmetric Dynamic Properties. <i>Journal of Manufacturing and Materials Processing</i> , <b>2020</b> , 4, 67	2.2	1
246	Analysis of the functional properties in the bore sub-surface zone during BTA deep-hole drilling. <i>Procedia CIRP</i> , <b>2020</b> , 88, 318-323	1.8	6
245	Experimental and computational investigations on the effects of deep-temperature emulsion on the turning of Inconel 718 alloy. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2020</b> , 31, 48-60	3.4	4
244	Effects on tool performance of cutting edge prepared by pressurized air wet abrasive jet machining (PAWAJM). <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 277, 116456	5.3	7
243	Static and oscillation superimposed ring compression tests with structured and coated tools for Sheet-Bulk Metal Forming. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 55, 78-86	5	9
242	The effect of runout errors on process forces and tool wear. <i>Procedia CIRP</i> , <b>2019</b> , 79, 39-44	1.8	2

241	Surface structuring using multi-stage grinding strategies based on geometric physically-based process simulations. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 608-615	1.5	1
240	Barkhausen noise-based fatigue life prediction of deep drilled AISI 4140. <i>Procedia Structural Integrity</i> , <b>2019</b> , 18, 274-279	1	7
239	Evaluation of cutting processes using geometric physically-based process simulations in view of the electric power consumption of machine tools. <i>Procedia CIRP</i> , <b>2019</b> , 79, 602-607	1.8	6
238	Analytical and Simulation-Based Prediction of Surface Roughness for Micromilling Hardened HSS. <i>Journal of Manufacturing and Materials Processing</i> , <b>2019</b> , 3, 70	2.2	5
237	The Effect of Machined Surface Conditioning on the Coating Interface of High Velocity Oxygen Fuel (HVOF) Sprayed Coating. <i>Journal of Manufacturing and Materials Processing</i> , <b>2019</b> , 3, 79	2.2	1
236	Multi-level simulation concept for multidisciplinary analysis and optimization of production systems. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 103, 3993-4012	3.2	18
235	Microstructural characteristics of high-feed milled HVOF sprayed WC-Co coatings. <i>Surface and Coatings Technology</i> , <b>2019</b> , 374, 448-459	4.4	14
234	Fluid structure interaction (FSI) modelling of deep hole twist drilling with internal cutting fluid supply. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 81-84	4.9	12
233	Influence of the diamond grain shape and orientation on the process forces and the mechanical work in scratch tests on basalt stone. <i>Diamond and Related Materials</i> , <b>2019</b> , 94, 65-72	3.5	3
232	Investigation on cutting edge preparation and FEM assisted optimization of the cutting edge micro shape for machining of nickel-base alloy. <i>Production Engineering</i> , <b>2019</b> , 13, 459-467	1.9	7
231	A thermomechanical analysis leading to a novel flank face design providing longer tool lives for tools used in the drilling of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 102, 2977-2992	3.2	10
230	Development of a three-dimensional finite element method simulation model to predict modified flow drilling tool performance. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 477-490	2	9
229	Developments in pre- and post-treatment of thin films and their influences on surface topography and coating adhesion strength of cutting tools. <i>Production Engineering</i> , <b>2019</b> , 13, 751-759	1.9	
228	Reduction of Ejection Forces in Injection Molding by Applying Mechanically Post-Treated CrN and CrAlN PVD Films. <i>Journal of Manufacturing and Materials Processing</i> , <b>2019</b> , 3, 88	2.2	1
227	Examination of the Material Removal of unreinforced, thermoplastic Polymers by Scratch Tests. <i>Production Engineering</i> , <b>2019</b> , 13, 713-719	1.9	2
226	CHATTER AVOIDANCE IN MILLING BY USING ADVANCED CUTTING TOOLS WITH STRUCTURED FUNCTIONAL SURFACES. <i>MM Science Journal</i> , <b>2019</b> , 2019, 3019-3026	1.9	3
225	Experimental Analysis of the Friction Behaviour in Cutting <b>2019</b> , 297-305		3
224	Vibration Suppression in Turning TiAl6V4 Using Additively Manufactured Tool Holders with Specially Structured, Particle Filled Hollow Elements. <i>Procedia Manufacturing</i> , <b>2019</b> , 40, 32-37	1.5	10



223	Development of a New Machining Tool for Bottom Forming in Deep Bore Holes <b>2019</b> , 270-277		1
222	Experimental Investigation of the Cutting Edge Microshape to Improve the Wear Resistance of Punch and Die Tools for Sheet Metal Punching <b>2019</b> , 391-401		
221	Adaption of tool surface for sheet-bulk metal forming by means of pressurized air wet abrasive jet machining. <i>Production Engineering</i> , <b>2019</b> , 13, 71-77	1.9	4
220	Investigating the impact of tool inertia on machinability of a Titanium alloy using tool deflection and acoustic emission. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2019</b> , 233, 1745-1760	2.4	5
219	Control of the material flow in sheet-bulk metal forming using modifications of the tool surface. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 17-26	2	12
218	In situ chip formation analyses in micro single-lip and twist deep hole drilling. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 2315-2324	3.2	6
217	Experimental studies and FEM simulation of helical-shaped deep hole twist drills. <i>Production Engineering</i> , <b>2018</b> , 12, 11-23	1.9	6
216	High-quality cutting edge preparation of micromilling tools using wet abrasive jet machining process. <i>Production Engineering</i> , <b>2018</b> , 12, 45-51	1.9	9
215	Simulation based analysis and optimisation of the cutting edge micro shape for machining of nickel-base alloys. <i>Procedia CIRP</i> , <b>2018</b> , 67, 284-289	1.8	6
214	A new reverse engineering method to combine FEM and CFD simulation three-dimensional insight into the chipping zone during the drilling of Inconel 718 with internal cooling. <i>Machining Science and Technology</i> , <b>2018</b> , 22, 881-898	2	9
213	Modeling the motion of the cooling lubricant in drilling processes using the finite volume and the smoothed particle hydrodynamics methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 329, 369-395	5.7	13
212	Machining Titanium alloy under carbon dioxide snow and micro-lubrication: a study on tool deflection, energy consumption, and tool damage. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 97, 4195-4208	3.2	14
211	Prediction of Feed-Rate Slowdowns in Precise Micromilling Processes. <i>Journal of Manufacturing and Materials Processing</i> , <b>2018</b> , 2, 19	2.2	0
210	Deep hole drilling. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 673-694	4.9	68
209	Development of a geometrical torque prediction method (GTPM) to automatically determine the relative torque for different tapping tools and diameters. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 97, 1465-1479	3.2	10
208	Modelling and Simulation of Internal Traverse Grinding From Micro-thermo-mechanical Mechanisms to Process Models. <i>Lecture Notes in Production Engineering</i> , <b>2018</b> , 369-403	0	3
207	Modelling, Simulation and Compensation of Thermomechanically Induced Deviations in Deep-Hole Drilling with Minimum Quantity Lubrication. <i>Lecture Notes in Production Engineering</i> , <b>2018</b> , 181-218	0	1
206	Simulation of surface structuring considering the acceleration behaviour by means of spindle control. <i>International Journal of Mechatronics and Manufacturing Systems</i> , <b>2018</b> , 11, 67	0.8	3

205	Influence of the deep hole drilling process and sulphur content on the fatigue strength of AISI 4140 steel components. <i>Procedia CIRP</i> , <b>2018</b> , 71, 209-214	1.8	8
204	Transient Simulation of Cooling-Lubricant Flow for Deep-Hole Drilling-Processes. <i>Procedia CIRP</i> , <b>2018</b> , 77, 78-81	1.8	5
203	Simulation-based tool development for structuring of surfaces for sheet bulk metal forming tools. <i>Procedia Manufacturing</i> , <b>2018</b> , 15, 467-474	1.5	4
202	Modeling of process deflections in a point-based grinding simulation system. <i>Procedia Manufacturing</i> , <b>2018</b> , 18, 104-111	1.5	1
201	Analysis of the laser drilling process for pilot holes in complex shaped components. <i>Procedia CIRP</i> , <b>2018</b> , 74, 398-402	1.8	2
200	Micro-Magnetic and Microstructural Characterization of Wear Progress on Case-Hardened 16MnCr5 Gear Wheels. <i>Materials</i> , <b>2018</b> , 11,	3.5	12
199	Model based optimization of a statistical simulation model for single diamond grinding. <i>Computational Statistics</i> , <b>2018</b> , 33, 1127-1143	1	1
198	Barkhausen Noise Assessment of the Surface Conditions Due to Deep Hole Drilling and Their Influence on the Fatigue Behaviour of AISI 4140. <i>Metals</i> , <b>2018</b> , 8, 720	2.3	16
197	Point-based tool representations for modeling complex tool shapes and runout for the simulation of process forces and chatter vibrations. <i>Advances in Manufacturing</i> , <b>2018</b> , 6, 301-307	2.7	10
196	Mechanistic modeling of micro-drilling cutting forces. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 88, 241-254	3.2	19
195	Adjustment of friction by duplex-treated, bionic structures for Sheet-Bulk Metal Forming. <i>Tribology International</i> , <b>2017</b> , 111, 9-17	4.9	17
194	Investigations on chip flow control for coil edge machining. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2017</b> , 48, 5-11	0.9	
193	Segmented and mathematical model for 3D FEM tapping simulation to predict the relative torque before tool production. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 128-129, 695-708	5.5	15
192	CFD simulation for internal coolant channel design of tapping tools to reduce tool wear. <i>CIRP Annals - Manufacturing Technology</i> , <b>2017</b> , 66, 109-112	4.9	12
191	Robot based deposition of WC-Co HVOF coatings on HSS cutting tools as a substitution for solid cemented carbide cutting tools. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 181, 012011	0.4	2
190	Improvement strategies for the formfilling in incremental gear forming processes. <i>Production Engineering</i> , <b>2017</b> , 11, 623-631	1.9	12
189	Core Drilling of Fiber Reinforced Materials using Abrasive Tools. <i>Procedia CIRP</i> , <b>2017</b> , 66, 175-180	1.8	5
188	Front Face Flow Drilling of Lightweight Cast Materials. <i>Procedia Engineering</i> , <b>2017</b> , 207, 956-961		7



187	Experimental investigations for a simulative optimization of the cutting edge design of twist drills used in the machining of Inconel 718. <i>Procedia Manufacturing</i> , <b>2017</b> , 14, 8-16	1.5	7
186	Structuring Surfaces by Microfinishing Using Defined Abrasive Belts. <i>Inventions</i> , <b>2017</b> , 2, 33	2.9	
185	Wet Abrasive Jet Machining to Prepare and Design the Cutting Edge Micro Shape. <i>Procedia CIRP</i> , <b>2016</b> , 45, 195-198	1.8	15
184	Wear behavior of tribologically optimized tool surfaces for incremental forming processes. <i>Tribology International</i> , <b>2016</b> , 104, 64-72	4.9	22
183	Process chains for high-precision components with micro-scale features. <i>CIRP Annals - Manufacturing Technology</i> , <b>2016</b> , 65, 549-572	4.9	66
182	Influence of Machine Hammer Peening on the Tribological Behavior and the Residual Stresses of Wear Resistant Thermally Sprayed Coatings. <i>Procedia CIRP</i> , <b>2016</b> , 45, 275-278	1.8	6
181	Modelling and simulation of thermal effects in internal traverse grinding of hardened bearing steel. <i>CIRP Annals - Manufacturing Technology</i> , <b>2016</b> , 65, 321-324	4.9	8
180	Indication of worn WC/C surface locations of a dry-running twin-screw rotor by the oxygen incorporation in tungsten-related Raman modes. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 171601	3.4	23
179	Experimental studies and CFD simulation of the internal cooling conditions when drilling Inconel 718. <i>International Journal of Machine Tools and Manufacture</i> , <b>2016</b> , 108, 52-65	9.4	44
178	A non-rigid registration method for the efficient analysis of shape deviations in production engineering applications. <i>Production Engineering</i> , <b>2016</b> , 10, 137-146	1.9	4
177	Determination of Force Parameters for Milling Simulations by Combining Optimization and Simulation Techniques. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	12
176	Experimental and numerical analysis of tribological effective surfaces for forming tools in Sheet-Bulk Metal Forming. <i>Production Engineering</i> , <b>2016</b> , 10, 37-50	1.9	25
175	Optimization of a Simulation for Inhomogeneous Mineral Subsoil Machining. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , <b>2016</b> , 487-496	0.2	
174	Mikrobearbeitung von Edelstahl mit Kugelkopfwerkzeugen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2016</b> , 111, 276-279	0.5	
173	Innovative Fließbohrbearbeitung der Magnesiumlegierung AZ31. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2016</b> , 111, 395-398	0.5	
172	Modellierung des Nassstrahlspanprozesses zur Präparation von Zerspanungswerkzeugen. <i>Keramische Zeitschrift</i> , <b>2016</b> , 68, 304-307	0.1	
171	Investigation of the tribological properties of high-feed milled structures and Cr-based hard PVD-coatings. <i>Vacuum</i> , <b>2016</b> , 131, 5-13	3.7	15
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130	Simulation of grinding processes using finite element analysis and geometric simulation of individual grains. <i>Production Engineering</i> , <b>2014</b> , 8, 345-353	1.9	12
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126	Innovative Flow Drilling on Magnesium Wrought Alloy AZ31. <i>Procedia CIRP</i> , <b>2014</b> , 18, 209-214	1.8	21
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22	Experimental and Computational Analysis of Machining Processes for Light-Weight Aluminium Structures. <i>Advanced Materials Research</i> , <b>2008</b> , 43, 97-104	0.5	2
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20	Model-based optimization revisited: Towards real-world processes <b>2008</b> ,		11
19	Machining of Lightweight Frame Components. <i>Advanced Materials Research</i> , <b>2008</b> , 43, 37-46	0.5	3
18	Experimental and simulative investigations on machining aluminium lightweight structures. <i>International Journal of Machining and Machinability of Materials</i> , <b>2008</b> , 4, 345	0.7	1
17	The effect of tool vibrations on the flank surface created by peripheral milling. <i>CIRP Annals - Manufacturing Technology</i> , <b>2008</b> , 57, 375-378	4.9	37
16	Modeling regenerative workpiece vibrations in five-axis milling. <i>Production Engineering</i> , <b>2008</b> , 2, 255-260	1.9	28
15	Dynamic analysis of the micromilling process ¶Influence of tool vibrations on the quality of microstructures. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2008</b> , 39, 616-621	0.9	10
14	Schleifbearbeitung von Hart-Weich-Verbunden ¶Finite-Elemente-Simulation des Schleifprozesses von hybriden Schichtverbunden. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2008</b> , 39, 622-626	0.9	2
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10	Designing memetic algorithms for real-world applications using self-imposed constraints <b>2007</b> ,		1
9	Honen auf Kombinationsmaschinen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2007</b> , 102, 531-535		2
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6	A New Flank Face Design Leading to an Improved Process Performance when Drilling High-Temperature Nickel-Base Alloys. <i>SSRN Electronic Journal</i> ,	1	4
5	The Correlation of Thermo-Mechanical Stresses on Cutting Tool Wear726-731		
4	Application of interpolation methods for the determination of position-dependent frequency response functions for the simulation of 5-axis milling processes. <i>Production Engineering</i> ,1	1.9	1
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