

Dirk Biermann

List of Publications by Citations

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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	Cutting edge rounding: An innovative tool wear criterion in drilling CFRP composite laminates. <i>International Journal of Machine Tools and Manufacture</i> , 2009 , 49, 1185-1196	9.4	345
311	Size effects in manufacturing of metallic components. <i>CIRP Annals - Manufacturing Technology</i> , 2009 , 58, 566-587	4.9	297
310	Cutting with coated tools: Coating technologies, characterization methods and performance optimization. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 703-723	4.9	242
309	Cryogenic manufacturing processes. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 713-736	4.9	225
308	Cutting edge geometries. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 631-653	4.9	211
307	Virtual process systems for part machining operations. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 585-605	4.9	195
306	Hot profile extrusion of AA-6060 aluminum chips. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 3343-3350	5.3	123
305	Machining of Titanium-alloy Ti-0V-2Fe-3Al under cryogenic conditions: Cooling with carbon dioxide snow. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 1175-1183	5.3	113
304	A general approach to simulating workpiece vibrations during five-axis milling of turbine blades. <i>CIRP Annals - Manufacturing Technology</i> , 2010 , 59, 125-128	4.9	88
303	Multiobjective Optimization on a Limited Budget of Evaluations Using Model-Assisted (mathcal{S})-Metric Selection. <i>Lecture Notes in Computer Science</i> , 2008 , 784-794	0.9	82
302	Modelling and simulation of process: machine interaction in grinding. <i>Production Engineering</i> , 2009 , 3, 111-120	1.9	71
301	Deep hole drilling. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 673-694	4.9	68
300	Process chains for high-precision components with micro-scale features. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 549-572	4.9	66
299	Effect of cutting edge preparation of coated tools on their performance in milling various materials. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2014 , 7, 264-273	3.4	52
298	Drilling of Inconel 718 with Geometry-modified Twist Drills. <i>Procedia CIRP</i> , 2014 , 24, 49-55	1.8	45
297	A Study on Micro-Machining Technology for the Machining of NiTi: Five-Axis Micro-Milling and Micro Deep-Hole Drilling. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 745-751	1.6	45
296	Experimental studies and CFD simulation of the internal cooling conditions when drilling Inconel 718. <i>International Journal of Machine Tools and Manufacture</i> , 2016 , 108, 52-65	9.4	44

295	Thermal Aspects in Deep Hole Drilling of Aluminium Cast Alloy Using Twist Drills and MQL. <i>Procedia CIRP</i> , 2012 , 3, 245-250	1.8	38
294	The effect of tool vibrations on the flank surface created by peripheral milling. <i>CIRP Annals - Manufacturing Technology</i> , 2008 , 57, 375-378	4.9	37
293	Influence of cutting edge geometry and cutting edge radius on the stability of micromilling processes. <i>Production Engineering</i> , 2009 , 3, 375-380	1.9	36
292	Cutting edge preparation to improve drilling tools for HPC processes. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2008 , 1, 76-80	3.4	33
291	Model-Based Multi-objective Optimization: Taxonomy, Multi-Point Proposal, Toolbox and Benchmark. <i>Lecture Notes in Computer Science</i> , 2015 , 64-78	0.9	33
290	Experimental investigations on single-lip deep hole drilling of superalloy Inconel 718 with small diameters. <i>Journal of Manufacturing Processes</i> , 2015 , 20, 332-339	5	32
289	Analysis and simulation of size effects in micromilling. <i>Production Engineering</i> , 2010 , 4, 25-34	1.9	32
288	Analysis of Micro Burr Formation in Austenitic Stainless Steel X5CrNi18-10. <i>Procedia CIRP</i> , 2012 , 3, 97-102.8		30
287	Micromilling of NiTi Shape-Memory Alloys with Ball Nose Cutters. <i>Materials and Manufacturing Processes</i> , 2009 , 24, 1266-1273	4.1	30
286	Reduction of Burr Formation in Drilling Using Cryogenic Process Cooling. <i>Procedia CIRP</i> , 2012 , 3, 85-90	1.8	29
285	MODELING AND SIMULATION OF WORKPIECE TEMPERATURE IN GRINDING BY FINITE ELEMENT ANALYSIS. <i>Machining Science and Technology</i> , 1997 , 1, 173-183	2	29
284	Machining of High Strength Light Weight Alloys for Engine Applications. <i>CIRP Annals - Manufacturing Technology</i> , 2007 , 56, 105-108	4.9	28
283	Modeling regenerative workpiece vibrations in five-axis milling. <i>Production Engineering</i> , 2008 , 2, 255-260.1.9	1.9	28
282	Wear behavior of bio-inspired and technologically structured HVOF sprayed NiCrBSiFe coatings. <i>Surface and Coatings Technology</i> , 2015 , 280, 16-26	4.4	27
281	Influence of the handling parameters on residual stresses of HVOF-sprayed WC-12Co coatings. <i>Surface and Coatings Technology</i> , 2015 , 268, 30-35	4.4	27
280	Manufacturing of dies from hardened tool steels by 3-axis micromilling. <i>Production Engineering</i> , 2011 , 5, 209-217	1.9	27
279	Study on machinability of additively manufactured and conventional titanium alloys in micro-milling process. <i>Precision Engineering</i> , 2020 , 62, 1-9	2.9	27
278	Thermally sprayed finestructured WC-12Co coatings finished by ball burnishing and grinding as an innovative approach to protect forming tools against wear. <i>Surface and Coatings Technology</i> , 2015 , 268, 134-141	4.4	26

277	Modelling, simulation and experimental investigation of chip formation in internal traverse grinding. <i>Production Engineering</i> , 2013 , 7, 251-263	1.9	26
276	Investigation of Different Hard Coatings for Micromilling of Austenitic Stainless Steel. <i>Procedia CIRP</i> , 2013 , 7, 246-251	1.8	26
275	Modeling of Surface Location Errors in a Multi-scale Milling Simulation System Using a Tool Model Based on Triangle Meshes. <i>Procedia CIRP</i> , 2015 , 37, 188-192	1.8	26
274	Experimental and numerical analysis of tribological effective surfaces for forming tools in Sheet-Bulk Metal Forming. <i>Production Engineering</i> , 2016 , 10, 37-50	1.9	25
273	Experimental investigation of tool wear and chip formation in cryogenic machining of titanium alloys. <i>Advances in Manufacturing</i> , 2015 , 3, 292-299	2.7	24
272	Tribological measures for controlling material flow in sheet-bulk metal forming. <i>Production Engineering</i> , 2016 , 10, 459-470	1.9	24
271	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> , 2016 , 109, 171601	3.4	23
270	On the effects of cutting speed and cooling methodologies in grooving operation of various tempers of Titanium alloy. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 1027-1037	5.3	23
269	Modeling techniques for simulating workpiece deflections in NC milling. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2014 , 7, 48-54	3.4	23
268	Wear behavior of tribologically optimized tool surfaces for incremental forming processes. <i>Tribology International</i> , 2016 , 104, 64-72	4.9	22
267	Achieving Small Structures in Thin NiTi Sheets for Medical Applications with Water Jet and Micro Machining: A Comparison. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 776-782	1.6	22
266	Process adapted structure optimization of deep hole drilling tools. <i>CIRP Annals - Manufacturing Technology</i> , 2009 , 58, 89-92	4.9	22
265	Investigations on the thermal workpiece distortion in MQL deep hole drilling of an aluminium cast alloy. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 85-88	4.9	21
264	Innovative Flow Drilling on Magnesium Wrought Alloy AZ31. <i>Procedia CIRP</i> , 2014 , 18, 209-214	1.8	21
263	High-feed milling of tailored surfaces for sheet-bulk metal forming tools. <i>Production Engineering</i> , 2015 , 9, 215-223	1.9	20
262	Modeling and Simulation of Heat Input in Deep-hole Drilling with Twist Drills and MQL. <i>Procedia CIRP</i> , 2013 , 8, 88-93	1.8	20
261	Experimental Analysis of Cutting Forces in Microdrilling of Austenitic Stainless Steel (X5CrNi18-10). <i>Materials and Manufacturing Processes</i> , 2015 , 30, 248-255	4.1	20
260	Simulation-Based Prediction of Process Forces for Grinding Free-Formed Surfaces on Machining Centers. <i>Procedia CIRP</i> , 2012 , 4, 161-165	1.8	20

259	SIMULATION CONCEPT FOR PREDICTING WORKPIECE VIBRATIONS IN FIVE-AXIS MILLING. <i>Machining Science and Technology</i> , 2009 , 13, 196-209	2	20
258	Empirical modeling of hard turning of AISI 6150 steel using design and analysis of computer experiments. <i>Production Engineering</i> , 2010 , 4, 115-125	1.9	20
257	Mechanistic modeling of micro-drilling cutting forces. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 241-254	3.2	19
256	Multi-level simulation concept for multidisciplinary analysis and optimization of production systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 3993-4012	3.2	18
255	Friction analysis of thermally sprayed coatings finished by ball burnishing and grinding. <i>Production Engineering</i> , 2013 , 7, 601-610	1.9	18
254	New coating systems for temperature monitoring in turning processes. <i>Surface and Coatings Technology</i> , 2013 , 215, 376-380	4.4	18
253	Using NC-path Deformation for Compensating Tool Deflections in Micromilling of Hardened Steel. <i>Procedia CIRP</i> , 2012 , 1, 132-137	1.8	18
252	Improved Tool Surfaces for Incremental Bulk Forming Processes of Sheet Metals. <i>Key Engineering Materials</i> , 2012 , 504-506, 975-980	0.4	18
251	Adjustment of friction by duplex-treated, bionic structures for Sheet-Bulk Metal Forming. <i>Tribology International</i> , 2017 , 111, 9-17	4.9	17
250	Modelling and simulation of Internal Traverse Grinding: bridging meso- and macro-scale simulations. <i>Production Engineering</i> , 2015 , 9, 451-463	1.9	17
249	Cutting Edge Preparation to Enhance the Performance of Single Lip Deep Hole Drills. <i>Procedia CIRP</i> , 2012 , 1, 172-177	1.8	17
248	Analysis of the Influence of Tool Geometry on Surface Integrity in Single-lip Deep Hole Drilling with Small Diameters. <i>Procedia Engineering</i> , 2011 , 19, 16-21		17
247	Development of temperature sensor thin films to monitor turning processes. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 819-823	5.3	17
246	Burr Minimization Strategies in Machining Operations 2010 , 13-20		17
245	A novel method for chip formation analyses in deep hole drilling with small diameters. <i>Production Engineering</i> , 2014 , 8, 491-497	1.9	16
244	Subsequent drilling on pilot holes in woven carbon fibre reinforced plastic epoxy laminates: the effect of drill chisel edge on delamination. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2011 , 225, 1493-1504	2.4	16
243	Experimental Investigations on Drilling GFRP Epoxy Composite Laminates Using Specialized and Conventional Uncoated Cemented Carbide Drills. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 609-617	4.7	16
242	Improvement of workpiece quality in face milling of aluminum alloys. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1968-1975	5.3	16

241	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> , 2018 , 8, 720	2.3	16
240	Segmented and mathematical model for 3D FEM tapping simulation to predict the relative torque before tool production. <i>International Journal of Mechanical Sciences</i> , 2017 , 128-129, 695-708	5.5	15
239	Wet Abrasive Jet Machining to Prepare and Design the Cutting Edge Micro Shape. <i>Procedia CIRP</i> , 2016 , 45, 195-198	1.8	15
238	Grinding process simulation of free-formed WC-Co hard material coated surfaces on machining centers using poisson-disk sampled dixel representations. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2014 , 7, 168-175	3.4	15
237	Simulation of the BTA deep-hole drilling process. <i>Production Engineering</i> , 2009 , 3, 339-346	1.9	15
236	Analysis of Residual Stress States of Structured Surfaces Manufactured by High-Feed and Micromilling. <i>HTM - Journal of Heat Treatment and Materials</i> , 2015 , 70, 183-189	0.7	15
235	Investigation of the tribological properties of high-feed milled structures and Cr-based hard PVD-coatings. <i>Vacuum</i> , 2016 , 131, 5-13	3.7	15
234	Future research directions in the machining of Inconel 718. <i>Journal of Materials Processing Technology</i> , 2021 , 297, 117260	5.3	15
233	Microstructural characteristics of high-feed milled HVOF sprayed WC-Co coatings. <i>Surface and Coatings Technology</i> , 2019 , 374, 448-459	4.4	14
232	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> , 2018 , 97, 4195-4208	3.2	14
231	Enhancing the Surface Integrity of Tribologically Stressed Contacting Surfaces by an Adjusted Surface Topography. <i>Procedia CIRP</i> , 2014 , 13, 214-218	1.8	14
230	A study of grinding silicon nitride and cemented carbide materials with diamond grinding wheels. <i>Production Engineering</i> , 2009 , 3, 411-416	1.9	14
229	Influence of Surface Modifications on Friction, Using High-Feed Milling and Wear Resistant PVD-Coating for Sheet-Metal Forming Tools. <i>Key Engineering Materials</i> , 2015 , 639, 275-282	0.4	13
228	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> , 2018 , 329, 369-395	5.7	13
227	Non-rigid isometric ICP: A practical registration method for the analysis and compensation of form errors in production engineering. <i>CAD Computer Aided Design</i> , 2011 , 43, 1758-1768	2.9	13
226	CFD simulation for internal coolant channel design of tapping tools to reduce tool wear. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 109-112	4.9	12
225	Improvement strategies for the formfilling in incremental gear forming processes. <i>Production Engineering</i> , 2017 , 11, 623-631	1.9	12
224	Fluid structure interaction (FSI) modelling of deep hole twist drilling with internal cutting fluid supply. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 81-84	4.9	12

223	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> , 2016 , 138,	3.3	12
222	Optimization of guide pads for the BTA deep hole drilling of high alloyed steels by microfinishing. <i>Production Engineering</i> , 2014 , 8, 33-40	1.9	12
221	Simulation of grinding processes using finite element analysis and geometric simulation of individual grains. <i>Production Engineering</i> , 2014 , 8, 345-353	1.9	12
220	Planning and optimisation of manufacturing process chains for functionally graded components part 1: methodological foundations. <i>Production Engineering</i> , 2013 , 7, 657-664	1.9	12
219	Abrasive points for drill grinding of carbon fibre reinforced thermoset. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 299-302	4.9	12
218	MODELING WORKPIECE DYNAMICS USING SETS OF DECOUPLED OSCILLATOR MODELS. <i>Machining Science and Technology</i> , 2012 , 16, 564-579	2	12
217	Direct free-form deformation of NC programs for surface reconstruction and form-error compensation. <i>Production Engineering</i> , 2010 , 4, 501-507	1.9	12
216	In-situ measurement of rake face temperatures in orthogonal cutting. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 61-64	4.9	12
215	Control of the material flow in sheet-bulk metal forming using modifications of the tool surface. <i>International Journal of Material Forming</i> , 2019 , 12, 17-26	2	12
214	Micro-Magnetic and Microstructural Characterization of Wear Progress on Case-Hardened 16MnCr5 Gear Wheels. <i>Materials</i> , 2018 , 11,	3.5	12
213	Grinding of Hard-Material-Coated Forming Tools on Machining Centers. <i>Procedia CIRP</i> , 2012 , 1, 388-392	1.8	11
212	Indicator-based Selection in Evolutionary Multiobjective Optimization Algorithms Based On the Desirability Index. <i>Journal of Multi-Criteria Decision Analysis</i> , 2013 , 20, 319-337	1.9	11
211	Model-based optimization revisited: Towards real-world processes 2008 ,		11
210	Structured and textured cutting tool surfaces for machining applications. <i>CIRP Annals - Manufacturing Technology</i> , 2021 , 70, 495-518	4.9	11
209	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> , 2019 , 102, 2977-2992	3.2	10
208	Determination of the Thermal Load Distribution in Internal Traverse Grinding using a Geometric-Kinematic Simulation. <i>Procedia CIRP</i> , 2015 , 31, 322-327	1.8	10
207	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> , 2018 , 97, 1465-1479	3.2	10
206	Improvement of wear resistant thermally sprayed coatings by microfinishing. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 559-562	4.9	10

205	Evaluation of different approaches for modeling phase transformations in machining simulation. <i>Production Engineering</i> , 2015 , 9, 437-449	1.9	10
204	Simulation of MQL Deep Hole Drilling for Predicting Thermally Induced Workpiece Deformations. <i>Procedia CIRP</i> , 2015 , 31, 148-153	1.8	10
203	Modeling Techniques for the Prediction of Workpiece Deflections in NC Milling. <i>Procedia CIRP</i> , 2012 , 2, 83-86	1.8	10
202	Dynamic analysis of the micromilling process – Influence of tool vibrations on the quality of microstructures. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 616-621	0.9	10
201	Vibration Suppression in Turning TiAl6V4 Using Additively Manufactured Tool Holders with Specially Structured, Particle Filled Hollow Elements. <i>Procedia Manufacturing</i> , 2019 , 40, 32-37	1.5	10
200	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> , 2018 , 6, 301-307	2.7	10
199	High-quality cutting edge preparation of micromilling tools using wet abrasive jet machining process. <i>Production Engineering</i> , 2018 , 12, 45-51	1.9	9
198	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> , 2018 , 22, 881-898	2	9
197	Development of a three-dimensional finite element method simulation model to predict modified flow drilling tool performance. <i>International Journal of Material Forming</i> , 2019 , 12, 477-490	2	9
196	Oscillator-based approach for modeling process dynamics in NC milling with position- and time-dependent modal parameters. <i>Production Engineering</i> , 2013 , 7, 417-422	1.9	9
195	Analysis of the Laser Drilling Process for the Combination with a Single-Lip Deep Hole Drilling Process with Small Diameters. <i>Physics Procedia</i> , 2011 , 12, 308-316		9
194	Flow drilling and thread forming of continuously reinforced aluminium extrusions. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2011 , 225, 398-407	2.4	9
193	Influence of the production process on the deformation and fatigue performance of friction drilled internal threads in the aluminum alloy 6060*. <i>Materialpruefung/Materials Testing</i> , 2015 , 57, 281-288	1.9	9
192	Tribological studies on multi-coated forming tools. <i>Journal of Manufacturing Processes</i> , 2020 , 49, 141-153		9
191	Static and oscillation superimposed ring compression tests with structured and coated tools for Sheet-Bulk Metal Forming. <i>Journal of Manufacturing Processes</i> , 2020 , 55, 78-86	5	9
190	Modelling and simulation of thermal effects in internal traverse grinding of hardened bearing steel. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 321-324	4.9	8
189	Experimental Verification of a Benchmark Forming Simulation. <i>Key Engineering Materials</i> , 2015 , 639, 251-258	0.4	8
188	Experimental and Computational Investigation of Machining Processes for Functionally Graded Materials. <i>Procedia Engineering</i> , 2011 , 19, 22-27		8

187	Finite element modeling and three-dimensional simulation of the turning process incorporating the material hardness. <i>International Journal of Material Forming</i> , 2010 , 3, 459-462	2	8
186	Effect of edge preparation technologies on cutting edge properties and tool performance. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 1823-1838	3.2	8
185	Influence of the deep hole drilling process and sulphur content on the fatigue strength of AISI 4140 steel components. <i>Procedia CIRP</i> , 2018 , 71, 209-214	1.8	8
184	Barkhausen noise-based fatigue life prediction of deep drilled AISI 4140. <i>Procedia Structural Integrity</i> , 2019 , 18, 274-279	1	7
183	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> , 2019 , 13, 459-467	1.9	7
182	Iterative, simulation-based shape modification by free-form deformation of the NC programs. <i>Advances in Engineering Software</i> , 2013 , 56, 63-71	3.6	7
181	Front Face Flow Drilling of Lightweight Cast Materials. <i>Procedia Engineering</i> , 2017 , 207, 956-961		7
180	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> , 2017 , 14, 8-16	1.5	7
179	Planning and optimisation of manufacturing process chains for functionally graded components Part 2: case study on self-reinforced thermoplastic composites. <i>Production Engineering</i> , 2015 , 9, 405-416	1.9	7
178	An Experimental Study on the Groove Design for Joints Produced by Hydraulic Expansion Considering Axial or Torque Load. <i>Materials and Manufacturing Processes</i> , 2012 , 27, 545-555	4.1	7
177	Processing and Damping Properties of Sputtered NiTi Thin Films for Tools in Machining Processes. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 500-505	1.6	7
176	Integrated simulation of the process chain composite extrusion Milling Welding for lightweight frame structures. <i>Production Engineering</i> , 2009 , 3, 441-451	1.9	7
175	Influence of cutting parameters on the formation of white etching layers in BTA deep hole drilling. <i>TM Technisches Messen</i> , 2020 , 87, 674-682	0.7	7
174	Effects on tool performance of cutting edge prepared by pressurized air wet abrasive jet machining (PAWAJM). <i>Journal of Materials Processing Technology</i> , 2020 , 277, 116456	5.3	7
173	Evaluation of cutting processes using geometric physically-based process simulations in view of the electric power consumption of machine tools. <i>Procedia CIRP</i> , 2019 , 79, 602-607	1.8	6
172	Influence of Tailored Surfaces and Superimposed-Oscillation on Sheet-Bulk Metal Forming Operations. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 41	2.2	6
171	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> , 2020 , 87, 41-46	1.8	6
170	In situ chip formation analyses in micro single-lip and twist deep hole drilling. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 2315-2324	3.2	6

169	Experimental studies and FEM simulation of helical-shaped deep hole twist drills. <i>Production Engineering</i> , 2018 , 12, 11-23	1.9	6
168	Simulation based analysis and optimisation of the cutting edge micro shape for machining of nickel-base alloys. <i>Procedia CIRP</i> , 2018 , 67, 284-289	1.8	6
167	Influence of Machine Hammer Peening on the Tribological Behavior and the Residual Stresses of Wear Resistant Thermally Sprayed Coatings. <i>Procedia CIRP</i> , 2016 , 45, 275-278	1.8	6
166	Analysis of the surface roughness obtained in a friction spinning process based on empirical models. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 74, 1655-1665	3.2	6
165	ON THE CHARACTERISTICS OF HIGH-PERFORMANCE INTERNAL PEEL GRINDING USING ELECTROPLATED CBN WHEELS. <i>Machining Science and Technology</i> , 2012 , 16, 580-600	2	6
164	Development of a honing process for the combination machining of hardened axisymmetric parts. <i>Production Engineering</i> , 2010 , 4, 147-155	1.9	6
163	A macroscopic approach towards the finite element simulation of tapping and thread milling of continuously reinforced extrusions. <i>Production Engineering</i> , 2010 , 4, 607-613	1.9	6
162	Analysis of the functional properties in the bore sub-surface zone during BTA deep-hole drilling. <i>Procedia CIRP</i> , 2020 , 88, 318-323	1.8	6
161	Numerical Determination of Process Values Influencing the Surface Integrity in Grinding. <i>Procedia CIRP</i> , 2016 , 45, 39-42	1.8	6
160	Analytical and Simulation-Based Prediction of Surface Roughness for Micromilling Hardened HSS. <i>Journal of Manufacturing and Materials Processing</i> , 2019 , 3, 70	2.2	5
159	Development of an Automatic Modal Pendulum for the Measurement of Frequency Responses for the Calculation of Stability Charts. <i>Procedia CIRP</i> , 2015 , 33, 587-592	1.8	5
158	Modelling, simulation and compensation of thermal effects for complex machining processes. <i>Production Engineering</i> , 2015 , 9, 433-435	1.9	5
157	Reciprocating sliding wear of case-hardened spheroidal cast iron against 100Cr6 under boundary lubrication. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2015 , 229, 1214-1226	1.4	5
156	A procedure for the evaluation and compensation of form errors by means of global isometric registration with subsequent local reoptimization. <i>Production Engineering</i> , 2014 , 8, 81-89	1.9	5
155	Five-axis grinding of wear-resistant, thermally sprayed coatings on free-formed surfaces. <i>Production Engineering</i> , 2014 , 8, 423-429	1.9	5
154	A Comparison of Low Cost Structure-borne Sound Measurement and Acceleration Measurement for Detection of Workpiece Vibrations in 5-axis Simultaneous Machining. <i>Procedia CIRP</i> , 2013 , 12, 91-96	1.8	5
153	Core Drilling of Fiber Reinforced Materials using Abrasive Tools. <i>Procedia CIRP</i> , 2017 , 66, 175-180	1.8	5
152	Tribologische Untersuchung bionischer und mikrostrukturierter Funktionsflächen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 1096-1104	0.9	5

151	Analysis and Simulation of Surface Topographies in Grinding of Thermally Sprayed Coatings. <i>Advanced Materials Research</i> , 2014 , 1018, 91-98	0.5	5
150	Modified DLC-Coated Guide Pads for BTA Deep Hole Drilling Tools. <i>Key Engineering Materials</i> , 2010 , 438, 195-202	0.4	5
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24	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> , 2019 , 13, 751-759	1.9
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20	EBSD [b]rientation analysis of monocrystalline diamonds used for diamond metal composites [Influence of sample preparation. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 832-838	0.9
19	Machining of [Titanium Under Cryogenic Conditions: Process Cooling by CO2-Snow 2013 , 109-120	
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17	Towards the Prediction of Compliance Influences on Shape Deviations in Internal Traverse Grinding. <i>Lecture Notes in Production Engineering</i> , 2021 , 304-314	0
16	Machining of Molds with Filigree Structures for Sheet-Bulk Metal Forming. <i>Lecture Notes in Production Engineering</i> , 2021 , 147-171	0
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