

# Berend Denkena

## 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.

407  
papers

2,789  
citations

24  
h-index

37  
g-index

433  
ext. papers

3,381  
ext. citations

1.9  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
407	Biodegradable magnesium implants for orthopedic applications. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 39-50	4.3	195
406	Spanen <b>2011</b> ,		78
405	Influence of Different Surface Machining Treatments of Magnesium-based Resorbable Implants on the Degradation Behavior in Rabbits. <i>Advanced Engineering Materials</i> , <b>2009</b> , 11, B47-B54	3.5	68
404	Manufacturing of functional riblet structures by profile grinding. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2010</b> , 3, 14-26	3.4	58
403	Basics of Cutting and Abrasive Processes. <i>Lecture Notes in Production Engineering</i> , <b>2013</b> ,	0	51
402	Thermographic online monitoring system for Automated Fiber Placement processes. <i>Composites Part B: Engineering</i> , <b>2016</b> , 97, 239-243	10	51
401	Influence of the Honed Cutting Edge on Tool Wear and Surface Integrity in Slot Milling of 42CrMo4 Steel. <i>Procedia CIRP</i> , <b>2012</b> , 1, 190-195	1.8	44
400	Automated Fiber Placement Head for Manufacturing of Innovative Aerospace Stiffening Structures. <i>Procedia Manufacturing</i> , <b>2016</b> , 6, 96-104	1.5	42
399	Engine blade regeneration: a literature review on common technologies in terms of machining. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 81, 917-924	3.2	41
398	Genetics and intelligence: new approaches in production engineering. <i>Production Engineering</i> , <b>2010</b> , 4, 65-73	1.9	41
397	Spanen <b>2004</b> ,		39
396	Significance of residual stress in PVD-coated carbide cutting tools. <i>CIRP Annals - Manufacturing Technology</i> , <b>2013</b> , 62, 67-70	4.9	34
395	Experimental investigation and simulation of machining thin-walled workpieces. <i>Production Engineering</i> , <b>2007</b> , 1, 343-350	1.9	34
394	Evaluation of eddy current testing for quality assurance and process monitoring of automated fiber placement. <i>Composites Part B: Engineering</i> , <b>2014</b> , 56, 109-116	10	33
393	Biomechanical characterisation of a degradable magnesium-based (MgCa0.8) screw. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 649-55	4.5	30
392	Enhanced grinding performance by means of patterned grinding wheels. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 77, 1935-1941	3.2	29
391	Influence of shot peening and laser ablation on residual stress state and phase composition of cemented carbide cutting inserts. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 36, 85-89	4.1	27

390	Design of bronze-bonded grinding wheel properties. <i>CIRP Annals - Manufacturing Technology</i> , <b>2016</b> , 65, 333-336	4.9	26
389	Data Mining Approach for Knowledge-based Process Planning. <i>Procedia Technology</i> , <b>2014</b> , 15, 406-415		26
388	Determination of Residual Stresses in Plate Material by Layer Removal with Machine-integrated Measurement. <i>Procedia CIRP</i> , <b>2014</b> , 24, 103-107	1.8	25
387	Grinding of microstructured functional surfaces: a novel strategy for dressing of microprofiles. <i>Production Engineering</i> , <b>2009</b> , 3, 41-48	1.9	25
386	Inverse Determination of Constitutive Equations and Cutting Force Modelling for Complex Tools Using Oxley's Predictive Machining Theory. <i>Procedia CIRP</i> , <b>2015</b> , 31, 405-410	1.8	24
385	Influence of the tool corner radius on the tool wear and process forces during hard turning. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2012</b> , 58, 933-940	3.2	24
384	Reduction of wear induced surface zone effects during hard turning by means of new tool geometries. <i>Production Engineering</i> , <b>2008</b> , 2, 123-132	1.9	24
383	Design and optimization of a machining robot. <i>Procedia Manufacturing</i> , <b>2017</b> , 14, 89-96	1.5	22
382	Enabling an Industrial Robot for Metal Cutting Operations. <i>Procedia CIRP</i> , <b>2015</b> , 35, 79-84	1.8	22
381	In vitro corrosion of ZEK100 plates in Hank's Balanced Salt Solution. <i>BioMedical Engineering OnLine</i> , <b>2012</b> , 11, 12	4.1	21
380	Differences and similarities between the induced residual stresses after ball end milling and orthogonal cutting of Ti6Al4V. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 226, 15-24	5.3	20
379	Energy efficient machining of Ti6Al4V. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 61-64	4.9	20
378	Identification of the specific cutting force for geometrically defined cutting edges and varying cutting conditions. <i>International Journal of Machine Tools and Manufacture</i> , <b>2014</b> , 82-83, 42-49	9.4	20
377	Energy efficient machine tools. <i>CIRP Annals - Manufacturing Technology</i> , <b>2020</b> , 69, 646-667	4.9	20
376	Feeling machines for online detection and compensation of tool deflection in milling. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 423-426	4.9	20
375	Machine Learning Approach for Optimization of Automated Fiber Placement Processes. <i>Procedia CIRP</i> , <b>2017</b> , 66, 74-78	1.8	19
374	Energy Efficient Machining with Optimized Coolant Lubrication Flow Rates. <i>Procedia CIRP</i> , <b>2014</b> , 24, 25-31		19
373	Energy efficiency improvement of machine tool spindle cooling system with on/off control. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2019</b> , 25, 14-21	3.4	18

372	Hybrid machining of roller bearing inner rings by hard turning and deep rolling. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 230, 211-216	5.3	18
371	Influence of PVD-coating technology and pretreatments on residual stresses for sheet-bulk metal forming tools. <i>Production Engineering</i> , <b>2016</b> , 10, 17-24	1.9	18
370	Energy consumption characterization in precision hard machining using CBN cutting tools. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 85, 2839-2845	3.2	18
369	Condition-based tool management for small batch production. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 74, 471-480	3.2	18
368	Prediction of contact conditions and theoretical roughness in manufacturing of complex implants by toric grinding tools. <i>International Journal of Machine Tools and Manufacture</i> , <b>2010</b> , 50, 630-636	9.4	18
367	Development of Advanced Tools for Economic and Ecological Grinding of Granite. <i>Key Engineering Materials</i> , <b>2003</b> , 250, 21-32	0.4	18
366	Electrical energy and material efficiency analysis of machining, additive and hybrid manufacturing. <i>Journal of Cleaner Production</i> , <b>2020</b> , 251, 119731	10.3	18
365	Strain gauge based sensing hydraulic fixtures. <i>Mechatronics</i> , <b>2016</b> , 34, 111-118	3	17
364	A roughness model for the machining of biomedical ceramics by toric grinding pins. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2013</b> , 6, 22-33	3.4	17
363	Five-Axis-Grinding With Toric Tools: A Status Review. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2012</b> , 134,	3.3	17
362	Surface topography after re-contouring of welded Ti-6Al-4V parts by means of 5-axis ball nose end milling. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 85, 1585-1602	3.2	17
361	Self-optimizing tool path generation for 5-axis machining processes. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2019</b> , 24, 49-54	3.4	17
360	Ultrafast Feed Drilling of Carbon Fiber-Reinforced Thermoplastics. <i>Procedia CIRP</i> , <b>2015</b> , 35, 91-95	1.8	16
359	Artificial intelligence for non-destructive testing of CFRP prepreg materials. <i>Production Engineering</i> , <b>2019</b> , 13, 617-626	1.9	16
358	Recent Advances in Manufacturing of Riblets on Compressor Blades and Their Aerodynamic Impact. <i>Journal of Turbomachinery</i> , <b>2013</b> , 135,	1.8	16
357	Ductile and brittle material removal mechanisms in natural nacre model for novel implant materials. <i>Journal of Materials Processing Technology</i> , <b>2010</b> , 210, 1827-1837	5.3	16
356	Fixed abrasive machining of non-metallic materials. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 767-790	4.9	15
355	Impact of Hard Machining on Zirconia Based Ceramics for Dental Applications. <i>Procedia CIRP</i> , <b>2017</b> , 65, 248-252	1.8	15

354	Thermal Image-based Monitoring for the Automated Fiber Placement Process. <i>Procedia CIRP</i> , <b>2017</b> , 62, 27-32	1.8	15
353	Adaptive process planning. <i>Production Engineering</i> , <b>2012</b> , 6, 55-67	1.9	14
352	Manufacturing conditioned roughness and wear of biomedical oxide ceramics for all-ceramic knee implants. <i>BioMedical Engineering OnLine</i> , <b>2013</b> , 12, 84	4.1	14
351	Process stabilization with an adaptronic spindle system. <i>Production Engineering</i> , <b>2012</b> , 6, 485-492	1.9	14
350	Cutting Edge Preparation by Means of Abrasive Brushing. <i>Key Engineering Materials</i> , <b>2010</b> , 438, 1-7	0.4	14
349	Microstructuring of functional surfaces by means of cutting processes. <i>Production Engineering</i> , <b>2008</b> , 2, 21-25	1.9	14
348	Evaluation of electromagnetic guides in machine tools. <i>CIRP Annals - Manufacturing Technology</i> , <b>2014</b> , 63, 357-360	4.9	13
347	Tool Deflection Control by a Sensory Spindle Slide for Milling Machine Tools. <i>Procedia CIRP</i> , <b>2017</b> , 62, 329-334	1.8	13
346	Monitoring of grinding wheel defects using recursive estimation. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 75, 1005-1015	3.2	13
345	Sensor Integration for a Hydraulic Clamping System. <i>Procedia Technology</i> , <b>2014</b> , 15, 465-473		13
344	High-Performance Cutting of Micro Patterns. <i>Procedia CIRP</i> , <b>2012</b> , 1, 144-149	1.8	13
343	Self-optimizing Cutting Process Using Learning Process Models. <i>Procedia Technology</i> , <b>2016</b> , 26, 221-226		13
342	The influence of the cutting tool microgeometry on the machinability of hardened AISI 4140 steel. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 90, 2557-2565	3.2	12
341	Mechanical characterization of nacre as an ideal-model for innovative new endoprosthesis materials. <i>Archives of Orthopaedic and Trauma Surgery</i> , <b>2011</b> , 131, 191-6	3.6	12
340	A rolling-gliding wear simulator for the investigation of tribological material pairings for application in total knee arthroplasty. <i>BioMedical Engineering OnLine</i> , <b>2010</b> , 9, 24	4.1	12
339	Design, modeling and advanced control of the innovative parallel manipulator PaLiDA <b>2005</b> ,		12
338	Augmenting Milling Process Data for Shape Error Prediction. <i>Procedia CIRP</i> , <b>2016</b> , 57, 487-491	1.8	12
337	Cutting mechanism and surface integrity in milling of Ti-5553 processed by selective laser melting. <i>Journal of Mechanical Science and Technology</i> , <b>2018</b> , 32, 4883-4892	1.6	12

336	Automated production data feedback for adaptive work planning and production control. <i>Procedia Manufacturing</i> , <b>2019</b> , 28, 18-23	1.5	11
335	Methodology for integrative production planning in highly dynamic environments. <i>Production Engineering</i> , <b>2019</b> , 13, 317-324	1.9	11
334	Simulation and Evaluation of Different Process Strategies in a 5-axis Re-contouring Process. <i>Procedia CIRP</i> , <b>2015</b> , 35, 31-37	1.8	11
333	Continuous generating grinding [Material engagement in gear tooth root machining. <i>Mechanism and Machine Theory</i> , <b>2014</b> , 81, 11-20	4	11
332	Development of Combined Manufacturing Technologies for High-Strength Structural Components. <i>Advanced Materials Research</i> , <b>2010</b> , 137, 219-246	0.5	11
331	Residual Stress Gradients in PVD-Coated Carbide Cutting Tools. <i>Materials Science Forum</i> , <b>2006</b> , 524-525, 607-612	0.4	11
330	Exploratory Experiments on Machined Riblets for 2-D Compressor Blades <b>2007</b> , 25		11
329	Development of Combined Manufacturing Technologies for High-Strength Structure Components. <i>Advanced Materials Research</i> , <b>2007</b> , 22, 67-75	0.5	11
328	Detection of tool deflection in milling by a sensory axis slide for machine tools. <i>Mechatronics</i> , <b>2016</b> , 34, 95-99	3	11
327	Increased performance in high speed turning of Inconel 718 by laser structuring of PcBN tools. <i>Procedia CIRP</i> , <b>2018</b> , 77, 602-605	1.8	11
326	Influence of customized cutting edge geometries on the workpiece residual stress in hard turning. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2018</b> , 232, 2132-2139	2.4	10
325	Manufacturing Conditioned Wear of All-ceramic Knee Prostheses. <i>Procedia CIRP</i> , <b>2013</b> , 5, 179-184	1.8	10
324	Material Removal Mechanisms in Grinding of Mixed Oxide Ceramics. <i>Procedia CIRP</i> , <b>2017</b> , 65, 70-77	1.8	10
323	Process Monitoring with a Force Sensitive Axis-slide for Machine Tools. <i>Procedia Technology</i> , <b>2014</b> , 15, 416-423		10
322	Theoretical and Experimental Determination of Geometry Deviation in Continuous Path Controlled OD Grinding Processes. <i>Advanced Materials Research</i> , <b>2011</b> , 223, 784-793	0.5	10
321	Simulation based Process Monitoring for Single Item Production without Machine External Sensors. <i>Procedia Technology</i> , <b>2014</b> , 15, 341-348		9
320	Dynamic scheduling of maintenance measures in complex production systems. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2013</b> , 6, 292-300	3.4	9
319	Condition based maintenance planning of highly productive machine tools. <i>Production Engineering</i> , <b>2012</b> , 6, 277-285	1.9	9

318	Development and Evaluation of an Active Magnetic Guide for Microsystems With an Integrated Air Gap Measurement System. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2716-2718	2	9
317	Energy Efficiency in Machining of Aircraft Components. <i>Procedia CIRP</i> , <b>2016</b> , 48, 479-482	1.8	9
316	Influence of pulsed laser ablation on the surface integrity of PCBN cutting tool materials. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 101, 1687-1698	3.2	9
315	Non-Destructive Determination of Residual Stress Depth Profiles of Hybrid Components by Energy Dispersive Residual Stress Measurement. <i>Key Engineering Materials</i> , <b>2017</b> , 742, 613-620	0.4	8
314	Development of a concept to optimize the energy efficiency in forging process chains. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2013</b> , 14, 1229-1236	1.7	8
313	Hybrid tool for high performance structuring and honing of cylinder liners. <i>CIRP Annals - Manufacturing Technology</i> , <b>2017</b> , 66, 113-116	4.9	8
312	Airborne sound emission as a process monitoring tool in the cut-off grinding of concrete. <i>Applied Acoustics</i> , <b>2010</b> , 71, 52-60	3.1	8
311	Mechanical information storage by use of an excited turning tool. <i>Production Engineering</i> , <b>2007</b> , 1, 25-30	1.9	8
310	Modification of the Tool-Workpiece Contact Conditions to Influence the Tool Wear and Workpiece Loading During Hard Turning. <i>International Journal of Automation Technology</i> , <b>2011</b> , 5, 353-361	0.8	8
309	Towards Dry Machining of Titanium-Based Alloys: A New Approach Using an Oxygen-Free Environment. <i>Metals</i> , <b>2020</b> , 10, 1161	2.3	8
308	Quantum algorithms for process parallel flexible job shop scheduling. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2021</b> , 33, 100-114	3.4	8
307	Direct Part Marking by Vibration Assisted Face Milling. <i>Procedia Technology</i> , <b>2016</b> , 26, 185-191		8
306	Simulation-based planning and evaluation of personnel scheduling in knowledge-intensive production systems. <i>Production Engineering</i> , <b>2016</b> , 10, 489-496	1.9	8
305	Towards an autonomous maintenance, repair and overhaul process. <i>Procedia Manufacturing</i> , <b>2019</b> , 40, 77-82	1.5	8
304	Investigations on a standardized process chain and support structure related rework procedures of SLM manufactured components. <i>Procedia Manufacturing</i> , <b>2018</b> , 18, 50-57	1.5	8
303	Improving technological machining simulation by tailored workpiece models and kinematics. <i>Procedia CIRP</i> , <b>2019</b> , 82, 224-230	1.8	7
302	Deep learning-based classification of production defects in automated-fiber-placement processes. <i>Production Engineering</i> , <b>2019</b> , 13, 501-509	1.9	7
301	On the pulsed laser ablation of polycrystalline cubic boron nitride Influence of pulse duration and material properties on ablation characteristics. <i>Journal of Laser Applications</i> , <b>2019</b> , 31, 022004	2.1	7

300	Influence of tool material properties on the wear behavior of cemented carbide tools with rounded cutting edges. <i>Wear</i> , <b>2020</b> , 456-457, 203395	3.5	7
299	Synergistic approaches to ultra-precision high performance cutting. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2020</b> , 28, 38-51	3.4	7
298	Automatic process parameter adaption for a hybrid workpiece during cylindrical operations. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 311-316	3.2	7
297	Interpretation and optimization of material flow via system behavior reconstruction. <i>Production Engineering</i> , <b>2014</b> , 8, 659-668	1.9	7
296	Competence-based Personnel Scheduling through Production Data. <i>Procedia CIRP</i> , <b>2017</b> , 63, 265-270	1.8	7
295	Multi-sensor disturbance force measurement for compliant mechanical structures <b>2010</b> ,		7
294	Cutting Edge Preparation for Cemented Carbide Milling Tools. <i>Advanced Materials Research</i> , <b>2009</b> , 76-78, 597-602	0.5	7
293	Thin tools for the high speed cutting of granite. <i>International Journal of Abrasive Technology</i> , <b>2009</b> , 2, 173	0.5	7
292	Diamond Tools for Wire Sawing Metal Components. <i>Key Engineering Materials</i> , <b>2003</b> , 250, 33-40	0.4	7
291	Gentelligente Bauteile [Genetik und Intelligenz in der Produktionstechnik. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2005</b> , 100, 569-572	0.5	7
290	Reconstruction of Process Forces in a Five-Axis Milling Center with a LSTM Neural Network in Comparison to a Model-Based Approach. <i>Journal of Manufacturing and Materials Processing</i> , <b>2020</b> , 4, 62	2.2	7
289	A novel approach to determine the velocity dependency of the friction behavior during machining by means of digital particle image velocimetry (DPIV). <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2021</b> , 32, 81-90	3.4	7
288	Analytical Modeling of Surface Roughness, Hardness and Residual Stress Induced by Deep Rolling. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 876-884	1.6	6
287	Production-based design of a hybrid load introduction element for thin-walled CFRP Structures. <i>Production Engineering</i> , <b>2018</b> , 12, 113-120	1.9	6
286	Approach for Increasing the Resource Efficiency for the Production Process of Titanium Structural Components. <i>Procedia CIRP</i> , <b>2015</b> , 35, 45-49	1.8	6
285	Chip formation and tool wear in turning of aluminum-alloyed UHC-steels. <i>Production Engineering</i> , <b>2014</b> , 8, 415-421	1.9	6
284	Pre PVD-Coating Processes and their Effect on Substrate Residual Stress in Carbide Cutting Tools. <i>Key Engineering Materials</i> , <b>2010</b> , 438, 17-22	0.4	6
283	Influence of Different Grinding Processes on Surface and Subsurface Characteristics of Carbide Tools. <i>Key Engineering Materials</i> , <b>2004</b> , 257-258, 195-200	0.4	6



282	Diamond Tools in Stone and Civil Engineering Industry - Cutting Principles, Wear and Applications. <i>Key Engineering Materials</i> , <b>2003</b> , 250, 103-109	0.4	6
281	Eco- and Energy-Efficient Grinding Processes. <i>Key Engineering Materials</i> , <b>2005</b> , 291-292, 39-44	0.4	6
280	Simulation of Residual Stress Related Part Distortion. <i>Lecture Notes in Production Engineering</i> , <b>2014</b> , 105-113	6	
279	Cooling of motor spindles – review. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 110, 3273-3294	3.2	6
278	Analysis of different machine learning algorithms to learn stability lobe diagrams. <i>Procedia CIRP</i> , <b>2020</b> , 88, 282-287	1.8	6
277	Production Monitoring Based on Sensing Clamping Elements. <i>Procedia Technology</i> , <b>2016</b> , 26, 235-244		6
276	Material identification based on machine-learning algorithms for hybrid workpieces during cylindrical operations. <i>Journal of Intelligent Manufacturing</i> , <b>2019</b> , 30, 2449-2456	6.7	6
275	Residual stresses in grinding of forming tools with toric grinding pins. <i>Procedia CIRP</i> , <b>2018</b> , 71, 354-357	1.8	6
274	Self-optimizing process planning for helical flute grinding. <i>Production Engineering</i> , <b>2019</b> , 13, 599-606	1.9	5
273	Dynamic Bid Pricing for an Optimized Resource Utilization in Small and Medium Sized Enterprises. <i>Procedia CIRP</i> , <b>2018</b> , 67, 516-521	1.8	5
272	Holistic process planning chain for robot machining. <i>Production Engineering</i> , <b>2017</b> , 11, 715-722	1.9	5
271	Design of individual re-contouring processes. <i>Procedia Manufacturing</i> , <b>2017</b> , 14, 76-88	1.5	5
270	Cutting edge orthogonal contact-zone analysis using detailed tool shape representation. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 75, 1641-1650	3.2	5
269	Machining of reinforced concrete using grinding wheels with defined grain pattern. <i>International Journal of Abrasive Technology</i> , <b>2011</b> , 4, 101	0.5	5
268	Diamond Tools for the Grinding of Complex Ceramic Implant Surfaces. <i>Advanced Materials Research</i> , <b>2009</b> , 76-78, 33-37	0.5	5
267	Grinding of steel-ceramic-composites. <i>International Journal of Abrasive Technology</i> , <b>2012</b> , 5, 152	0.5	5
266	Manufacturing of functional microstructured surfaces by grinding with vitrified SiC- and cBN-wheels. <i>International Journal of Abrasive Technology</i> , <b>2009</b> , 2, 207	0.5	5
265	Sonic analysis in cut-off grinding of concrete. <i>Production Engineering</i> , <b>2008</b> , 2, 209-218	1.9	5

264	Development of a System for the Deep Sawing of Granite. <i>Key Engineering Materials</i> , <b>2003</b> , 250, 239-246	0.4	5
263	Berücksichtigung temporärer Effekte von Lebenszykluskosten in der Technologiebewertung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2010</b> , 105, 959-963	0.5	5
262	Wissensmanagement im integrierten Produktlebenszyklus. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2002</b> , 97, 428-431	0.5	5
261	Influence of the cutting direction angle on the tool wear behavior in face plunge grinding of PcBN. <i>Wear</i> , <b>2020</b> , 454-455, 203325	3.5	5
260	Grinding of transformation-toughened mixed oxide ceramic. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 109, 1463-1478	3.2	5
259	Production-Related Surface and Subsurface Properties and Fatigue Life of Hybrid Roller Bearing Components. <i>Metals</i> , <b>2020</b> , 10, 1339	2.3	5
258	Influence of Prepreg Material Quality on Carbon Fiber Reinforced Plastic Laminates Processed by Automated Fiber Placement. <i>Procedia CIRP</i> , <b>2018</b> , 67, 422-427	1.8	5
257	Process-parallel center deviation measurement of a BTA deep-hole drilling tool. <i>Procedia Manufacturing</i> , <b>2018</b> , 24, 229-234	1.5	5
256	Model-based manufacturing and application of metal-bonded grinding wheels. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 321-324	4.9	4
255	Efficient Generation of a Digital Twin Using Object Detection for Data Acquisition and XML-Interface for Model Creation. <i>Procedia CIRP</i> , <b>2020</b> , 93, 274-279	1.8	4
254	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. <i>Metals</i> , <b>2020</b> , 10, 1363	2.3	4
253	Additive manufacturing of metal-bonded grinding tools. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 107, 2387-2395	3.2	4
252	Statistical approaches for semi-supervised anomaly detection in machining. <i>Production Engineering</i> , <b>2020</b> , 14, 385-393	1.9	4
251	Automatic Regeneration of Cemented Carbide Tools for a Resource Efficient Tool Production. <i>Procedia Manufacturing</i> , <b>2018</b> , 21, 259-265	1.5	4
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241	Active linear guidances for micro actuators: alternative concepts and first prototypes. <i>Microsystem Technologies</i> , <b>2008</b> , 14, 1961-1973	1.7	4
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237	Dressing of Vitreous Bonded Wheels for Continuous Generating Grinding of Gears. <i>Key Engineering Materials</i> , <b>2005</b> , 291-292, 201-206	0.4	4
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233	Simulation-based compensation of deflection errors in helical flute grinding. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2020</b> , 28, 136-143	3.4	4
232	Intelligent processes in biologically inspired manufacturing. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2021</b> , 32, 1-15	3.4	4
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222	Multicriteria dimensioning of hard-finishing operations regarding cross-process interdependencies. <i>Journal of Intelligent Manufacturing</i> , <b>2012</b> , 23, 2333-2342	6.7	3
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219	Roadmapping zur strategischen Unternehmensplanung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2008</b> , 103, 856-860	0.5	3
218	CA-Technologien in der Fertigungs- und Prozessplanung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2009</b> , 104, 300-305	0.5	3
217	Model-Based Dimensioning of Multistage Processes Regarding Multiple Criteria. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 1043-1056		3
216	Simulationsbasierte kombinierte Instandhaltungs- und Produktionsplanung <b>2020</b> , 261-273		3
215	Feeling Machine for Process Monitoring of Turning Hybrid Solid Components. <i>Metals</i> , <b>2020</b> , 10, 930	2.3	3
214	Influence of Cemented Carbide Composition on Cutting Temperatures and Corresponding Hot Hardnesses. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
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195	Grinding of Riblet Structures on Free Formed Compressor Blades. <i>Advanced Materials Research</i> , <b>2014</b> , 907, 463-473	0.5	2
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191	Residual Stress Development in Laser Machined PVD-Coated Carbide Cutting Tools. <i>Materials Science Forum</i> , <b>2013</b> , 768-769, 391-397	0.4	2
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187	Machining of micro-systems. <i>Microsystem Technologies</i> , <b>2008</b> , 14, 1909-1916	1.7	2
186	Three-Dimensional Optical Measurement with Locally Adapted Projection. <i>Advanced Materials Research</i> , <b>2007</b> , 22, 83-90	0.5	2
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172	Personaleinsatz zielgerichtet planen und steuern. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2017</b> , 112, 406-409	0.5	2
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169	Influence of metal working fluid on chip formation and mechanical loads in orthogonal cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	2
168	Verschleiss <b>2004</b> , 105-143		2
167	Simulation Based Detailed Planning for Agile Manufacturing <b>2012</b> , 512-517		2
166	Innovative Zerspanung mit Industrierobotern. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2015</b> , 110, 514-517	0.5	2
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161	Kompetenzorientierte Arbeitsplanung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2013</b> , 108, 709-714	0.5	2
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158	Environmental evaluation of process chains. <i>Procedia CIRP</i> , <b>2020</b> , 88, 265-269	1.8	2
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154	Analysis of potentials to improve the machining of hybrid workpieces. <i>Production Engineering</i> , <b>2019</b> , 13, 11-19	1.9	2
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148	Frictionally damped tool holder for long projection cutting tools. <i>Production Engineering</i> , <b>2018</b> , 12, 715-723	1.2	2
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144	Dxel-Based Simulation of Directed Energy Deposition Additive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> , <b>2021</b> , 5, 9	2.2	2
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132	Surface Integrity - an Inherent Load Sensor. <i>Advanced Materials Research</i> , <b>2013</b> , 797, 679-684	0.5	1
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128	Recent Advances in Manufacturing of Riblets on Compressor Blades and Their Aerodynamic Impact <b>2012</b> ,		1
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118	Wissensmanagement in der Zerspangung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2015</b> , 110, 444-447	0.5	1
117	Zustandsorientierte Instandhaltung von Zugradsätzen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2015</b> , 110, 635-638	0.5	1
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115	Kompetenzorientierte Arbeitsplatzwechsel. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2017</b> , 112, 640-643	0.5	1
114	Energieeffiziente Herstellung von Titanbauteilen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2020</b> , 115, 617-620	0.5	1
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111	Generisches Wissensmanagement für modulare Unternehmensanwendungen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2003</b> , 98, 371-374	0.5	1
110	Werkzeuge für die wissensintensive Produktion von morgen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2005</b> , 100, 165-168	0.5	1
109	Influence of 5-axis-kinematics Geometrical Accuracy in Riblet Manufacturing Processes. <i>Lecture Notes in Production Engineering</i> , <b>2014</b> , 69-74	0	1
108	Simulation-based feed rate adaptation considering tool wear condition. <i>Procedia Manufacturing</i> , <b>2020</b> , 52, 133-137	1.5	1
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101	Effects on the deformation-induced martensitic transformation in AISI 304 in external longitudinal turning. <i>Advances in Industrial and Manufacturing Engineering</i> , <b>2021</b> , 2, 100044	1.8	1
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