

# Berend Denkena

## List of Publications by Year in descending order

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415  
papers

4,014  
citations

185998

28  
h-index

253896

43  
g-index

433  
all docs

433  
docs citations

433  
times ranked

2658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable magnesium implants for orthopedic applications. Journal of Materials Science, 2013, 48, 39-50.	1.7	242
2	Spanen. , 2011, , .		96
3	Influence of Different Surface Machining Treatments of Magnesium-based Resorbable Implants on the Degradation Behavior in Rabbits. Advanced Engineering Materials, 2009, 11, B47.	1.6	88
4	Thermographic online monitoring system for Automated Fiber Placement processes. Composites Part B: Engineering, 2016, 97, 239-243.	5.9	74
5	Manufacturing of functional riblet structures by profile grinding. CIRP Journal of Manufacturing Science and Technology, 2010, 3, 14-26.	2.3	73
6	Energy efficient machine tools. CIRP Annals - Manufacturing Technology, 2020, 69, 646-667.	1.7	64
7	Basics of Cutting and Abrasive Processes. Lecture Notes in Production Engineering, 2013, , .	0.3	64
8	Automated Fiber Placement Head for Manufacturing of Innovative Aerospace Stiffening Structures. Procedia Manufacturing, 2016, 6, 96-104.	1.9	62
9	Influence of the Honed Cutting Edge on Tool Wear and Surface Integrity in Slot Milling of 42CrMo4 Steel. Procedia CIRP, 2012, 1, 190-195.	1.0	52
10	Engine blade regeneration: a literature review on common technologies in terms of machining. International Journal of Advanced Manufacturing Technology, 2015, 81, 917-924.	1.5	51
11	Evaluation of eddy current testing for quality assurance and process monitoring of automated fiber placement. Composites Part B: Engineering, 2014, 56, 109-116.	5.9	48
12	Genetics and intelligence: new approaches in production engineering. Production Engineering, 2010, 4, 65-73.	1.1	47
13	Significance of residual stress in PVD-coated carbide cutting tools. CIRP Annals - Manufacturing Technology, 2013, 62, 67-70.	1.7	45
14	Design of bronze-bonded grinding wheel properties. CIRP Annals - Manufacturing Technology, 2016, 65, 333-336.	1.7	42
15	Experimental investigation and simulation of machining thin-walled workpieces. Production Engineering, 2007, 1, 343-350.	1.1	41
16	Grinding of microstructured functional surfaces: a novel strategy for dressing of microprofiles. Production Engineering, 2009, 3, 41-48.	1.1	41
17	Machine Learning Approach for Optimization of Automated Fiber Placement Processes. Procedia CIRP, 2017, 66, 74-78.	1.0	41
18	Electrical energy and material efficiency analysis of machining, additive and hybrid manufacturing. Journal of Cleaner Production, 2020, 251, 119731.	4.6	39

#	ARTICLE	IF	CITATIONS
19	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> , 2013, 36, 85-89.	1.7	37
20	Data Mining Approach for Knowledge-based Process Planning. <i>Procedia Technology</i> , 2014, 15, 406-415.	1.1	37
21	Enhanced grinding performance by means of patterned grinding wheels. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 1935-1941.	1.5	36
22	Design and optimization of a machining robot. <i>Procedia Manufacturing</i> , 2017, 14, 89-96.	1.9	33
23	Feeling machines for online detection and compensation of tool deflection in milling. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 423-426.	1.7	33
24	Influence of the tool corner radius on the tool wear and process forces during hard turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 58, 933-940.	1.5	32
25	Determination of Residual Stresses in Plate Material by Layer Removal with Machine-integrated Measurement. <i>Procedia CIRP</i> , 2014, 24, 103-107.	1.0	32
26	In vitro corrosion of ZEK100 plates in Hank's Balanced Salt Solution. <i>BioMedical Engineering OnLine</i> , 2012, 11, 12.	1.3	31
27	Biomechanical characterisation of a degradable magnesium-based (MgCa0.8) screw. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 649-655.	1.7	30
28	Cutting mechanism and surface integrity in milling of Ti-5553 processed by selective laser melting. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 4883-4892.	0.7	30
29	Fixed abrasive machining of non-metallic materials. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 767-790.	1.7	30
30	Self-optimizing tool path generation for 5-axis machining processes. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2019, 24, 49-54.	2.3	30
31	Energy Efficient Machining with Optimized Coolant Lubrication Flow Rates. <i>Procedia CIRP</i> , 2014, 24, 25-31.	1.0	29
32	Inverse Determination of Constitutive Equations and Cutting Force Modelling for Complex Tools Using Oxley's Predictive Machining Theory. <i>Procedia CIRP</i> , 2015, 31, 405-410.	1.0	29
33	Enabling an Industrial Robot for Metal Cutting Operations. <i>Procedia CIRP</i> , 2015, 35, 79-84.	1.0	29
34	Artificial intelligence for non-destructive testing of CFRP prepreg materials. <i>Production Engineering</i> , 2019, 13, 617-626.	1.1	29
35	Quantum algorithms for process parallel flexible job shop scheduling. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 33, 100-114.	2.3	28
36	Differences and similarities between the induced residual stresses after ball end milling and orthogonal cutting of Ti-6Al-4V. <i>Journal of Materials Processing Technology</i> , 2015, 226, 15-24.	3.1	27

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37	Thermal Image-based Monitoring for the Automated Fiber Placement Process. <i>Procedia CIRP</i> , 2017, 62, 27-32.	1.0	27
38	Reduction of wear induced surface zone effects during hard turning by means of new tool geometries. <i>Production Engineering</i> , 2008, 2, 123-132.	1.1	26
39	Energy efficiency improvement of machine tool spindle cooling system with onâ€“off control. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2019, 25, 14-21.	2.3	26
40	Condition-based tool management for small batch production. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 471-480.	1.5	25
41	Identification of the specific cutting force for geometrically defined cutting edges and varying cutting conditions. <i>International Journal of Machine Tools and Manufacture</i> , 2014, 82-83, 42-49.	6.2	25
42	Impact of Hard Machining on Zirconia Based Ceramics for Dental Applications. <i>Procedia CIRP</i> , 2017, 65, 248-252.	1.0	25
43	Energy efficient machining of Tiâ€“6Alâ€“4V. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 61-64.	1.7	24
44	Cutting Edge Preparation by Means of Abrasive Brushing. <i>Key Engineering Materials</i> , 0, 438, 1-7.	0.4	23
45	Ultrafast Feed Drilling of Carbon Fiber-Reinforced Thermoplastics. <i>Procedia CIRP</i> , 2015, 35, 91-95.	1.0	23
46	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> , 2016, 85, 1585-1602.	1.5	23
47	Hybrid machining of roller bearing inner rings by hard turning and deep rolling. <i>Journal of Materials Processing Technology</i> , 2016, 230, 211-216.	3.1	23
48	Cooling of motor spindlesâ€“a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 3273-3294.	1.5	23
49	Continuous generating grinding â€” Material engagement in gear tooth root machining. <i>Mechanism and Machine Theory</i> , 2014, 81, 11-20.	2.7	22
50	Energy consumption characterization in precision hard machining using CBN cutting tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 2839-2845.	1.5	22
51	Process stabilization with an adaptronic spindle system. <i>Production Engineering</i> , 2012, 6, 485-492.	1.1	21
52	Strain gauge based sensing hydraulic fixtures. <i>Mechatronics</i> , 2016, 34, 111-118.	2.0	21
53	Tool Deflection Control by a Sensory Spindle Slide for Milling Machine Tools. <i>Procedia CIRP</i> , 2017, 62, 329-334.	1.0	21
54	The influence of the cutting tool microgeometry on the machinability of hardened AISI 4140 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2557-2565.	1.5	20

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55	Additive manufacturing of metal-bonded grinding tools. International Journal of Advanced Manufacturing Technology, 2020, 107, 2387-2395.	1.5	20
56	Development of Advanced Tools for Economic and Ecological Grinding of Granite. Key Engineering Materials, 2003, 250, 21-32.	0.4	19
57	Five-Axis-Grinding With Toric Tools: A Status Review. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	19
58	Recent Advances in Manufacturing of Riblets on Compressor Blades and Their Aerodynamic Impact. Journal of Turbomachinery, 2013, 135, .	0.9	19
59	Detection of tool deflection in milling by a sensory axis slide for machine tools. Mechatronics, 2016, 34, 95-99.	2.0	19
60	Influence of PVD-coating technology and pretreatments on residual stresses for sheet-bulk metal forming tools. Production Engineering, 2016, 10, 17-24.	1.1	19
61	Microstructuring of functional surfaces by means of cutting processes. Production Engineering, 2008, 2, 21-25.	1.1	18
62	Prediction of contact conditions and theoretical roughness in manufacturing of complex implants by toric grinding tools. International Journal of Machine Tools and Manufacture, 2010, 50, 630-636.	6.2	18
63	A roughness model for the machining of biomedical ceramics by toric grinding pins. CIRP Journal of Manufacturing Science and Technology, 2013, 6, 22-33.	2.3	18
64	Towards Dry Machining of Titanium-Based Alloys: A New Approach Using an Oxygen-Free Environment. Metals, 2020, 10, 1161.	1.0	18
65	Ductile and brittle material removal mechanisms in natural nacreâ€”A model for novel implant materials. Journal of Materials Processing Technology, 2010, 210, 1827-1837.	3.1	17
66	Manufacturing Conditioned Wear of All-ceramic Knee Prostheses. Procedia CIRP, 2013, 5, 179-184.	1.0	17
67	Reconstruction of Process Forces in a Five-Axis Milling Center with a LSTM Neural Network in Comparison to a Model-Based Approach. Journal of Manufacturing and Materials Processing, 2020, 4, 62.	1.0	17
68	Influence of tool material properties on the wear behavior of cemented carbide tools with rounded cutting edges. Wear, 2020, 456-457, 203395.	1.5	17
69	Exploratory Experiments on Machined Riblets for 2-D Compressor Blades. , 2007, , 25.		16
70	A rolling-gliding wear simulator for the investigation of tribological material pairings for application in total knee arthroplasty. BioMedical Engineering OnLine, 2010, 9, 24.	1.3	16
71	Adaptive process planning. Production Engineering, 2012, 6, 55-67.	1.1	16
72	Manufacturing conditioned roughness and wear of biomedical oxide ceramics for all-ceramic knee implants. BioMedical Engineering OnLine, 2013, 12, 84.	1.3	16

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73	Energy Efficiency in Machining of Aircraft Components. Procedia CIRP, 2016, 48, 479-482.	1.0	16
74	Design, modeling and advanced control of the innovative parallel manipulator PaLiDA. , 2005, , .		15
75	Pre PVD-Coating Processes and their Effect on Substrate Residual Stress in Carbide Cutting Tools. Key Engineering Materials, 0, 438, 17-22.	0.4	15
76	Mechanical characterization of nacre as an ideal-model for innovative new endoprosthesis materials. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 191-196.	1.3	15
77	High-Performance Cutting of Micro Patterns. Procedia CIRP, 2012, 1, 144-149.	1.0	15
78	Augmenting Milling Process Data for Shape Error Prediction. Procedia CIRP, 2016, 57, 487-491.	1.0	15
79	Automated production data feedback for adaptive work planning and production control. Procedia Manufacturing, 2019, 28, 18-23.	1.9	15
80	Residual Stress Gradients in PVD-Coated Carbide Cutting Tools. Materials Science Forum, 2006, 524-525, 607-612.	0.3	14
81	Development of Combined Manufacturing Technologies for High-Strength Structure Components. Advanced Materials Research, 2007, 22, 67-75.	0.3	14
82	Sensor Integration for a Hydraulic Clamping System. Procedia Technology, 2014, 15, 465-473.	1.1	14
83	Evaluation of electromagnetic guides in machine tools. CIRP Annals - Manufacturing Technology, 2014, 63, 357-360.	1.7	14
84	Self-optimizing Cutting Process Using Learning Process Models. Procedia Technology, 2016, 26, 221-226.	1.1	14
85	Material Removal Mechanisms in Grinding of Mixed Oxide Ceramics. Procedia CIRP, 2017, 65, 70-77.	1.0	14
86	Deep learning-based classification of production defects in automated-fiber-placement processes. Production Engineering, 2019, 13, 501-509.	1.1	14
87	Analysis of different machine learning algorithms to learn stability lobe diagrams. Procedia CIRP, 2020, 88, 282-287.	1.0	14
88	Editorial: System-integrated Intelligence â€œ New Challenges for Product and Production Engineering in the Context of Industry 4.0. Procedia Technology, 2014, 15, 1-4.	1.1	13
89	Monitoring of grinding wheel defects using recursive estimation. International Journal of Advanced Manufacturing Technology, 2014, 75, 1005-1015.	1.5	13
90	Hybrid tool for high performance structuring and honing of cylinder liners. CIRP Annals - Manufacturing Technology, 2017, 66, 113-116.	1.7	13

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91	Increased performance in high speed turning of Inconel 718 by laser structuring of PcBN tools. <i>Procedia CIRP</i> , 2018, 77, 602-605.	1.0	13
92	Improving technological machining simulation by tailored workpiece models and kinematics. <i>Procedia CIRP</i> , 2019, 82, 224-230.	1.0	13
93	Methodology for integrative production planning in highly dynamic environments. <i>Production Engineering</i> , 2019, 13, 317-324.	1.1	13
94	Material identification based on machine-learning algorithms for hybrid workpieces during cylindrical operations. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 2449-2456.	4.4	13
95	Dynamic scheduling of maintenance measures in complex production systems. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2013, 6, 292-300.	2.3	12
96	Process Monitoring with a Force Sensitive Axis-slide for Machine Tools. <i>Procedia Technology</i> , 2014, 15, 416-423.	1.1	12
97	Analytical Modeling of Surface Roughness, Hardness and Residual Stress Induced by Deep Rolling. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 876-884.	1.2	12
98	Development and Evaluation of an Active Magnetic Guide for Microsystems With an Integrated Air Gap Measurement System. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2716-2718.	1.2	11
99	Development of Combined Manufacturing Technologies for High-Strength Structural Components. <i>Advanced Materials Research</i> , 2010, 137, 219-246.	0.3	11
100	Simulation based Process Monitoring for Single Item Production without Machine External Sensors. <i>Procedia Technology</i> , 2014, 15, 341-348.	1.1	11
101	Simulation and Evaluation of Different Process Strategies in a 5-axis Re-contouring Process. <i>Procedia CIRP</i> , 2015, 35, 31-37.	1.0	11
102	Production Monitoring Based on Sensing Clamping Elements. <i>Procedia Technology</i> , 2016, 26, 235-244.	1.1	11
103	Direct Part Marking by Vibration Assisted Face Milling. <i>Procedia Technology</i> , 2016, 26, 185-191.	1.1	11
104	Simulation-based planning and evaluation of personnel scheduling in knowledge-intensive production systems. <i>Production Engineering</i> , 2016, 10, 489-496.	1.1	11
105	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> , 2018, 232, 2132-2139.	1.5	11
106	Investigations on a standardized process chain and support structure related rework procedures of SLM manufactured components. <i>Procedia Manufacturing</i> , 2018, 18, 50-57.	1.9	11
107	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. <i>Metals</i> , 2020, 10, 1363.	1.0	11
108	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> , 2021, 32, 81-90.	2.3	11

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109	Eco- and Energy-Efficient Grinding Processes. <i>Key Engineering Materials</i> , 2005, 291-292, 39-44.	0.4	10
110	Mechanical information storage by use of an excited turning tool. <i>Production Engineering</i> , 2007, 1, 25-30.	1.1	10
111	Theoretical and Experimental Determination of Geometry Deviation in Continuous Path Controlled OD Grinding Processes. <i>Advanced Materials Research</i> , 2011, 223, 784-793.	0.3	10
112	Condition based maintenance planning of highly productive machine tools. <i>Production Engineering</i> , 2012, 6, 277-285.	1.1	10
113	Automatic process parameter adaption for a hybrid workpiece during cylindrical operations. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 311-316.	1.5	10
114	Influence of pulsed laser ablation on the surface integrity of PCBN cutting tool materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1687-1698.	1.5	10
115	Grinding of transformation-toughened mixed oxide ceramic. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 1463-1478.	1.5	10
116	Influence of Cemented Carbide Composition on Cutting Temperatures and Corresponding Hot Hardnesses. <i>Materials</i> , 2020, 13, 4571.	1.3	10
117	Statistical approaches for semi-supervised anomaly detection in machining. <i>Production Engineering</i> , 2020, 14, 385-393.	1.1	10
118	Synergistic approaches to ultra-precision high performance cutting. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 28, 38-51.	2.3	10
119	Genelligent processes in biologically inspired manufacturing. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 32, 1-15.	2.3	10
120	Laser Scanning Based Object Detection to Realize Digital Blank Shadows for Autonomous Process Planning in Machining. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 1.	1.0	10
121	Development of a concept to optimize the energy efficiency in forging process chains. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1229-1236.	1.1	9
122	Approach for Increasing the Resource Efficiency for the Production Process of Titanium Structural Components. <i>Procedia CIRP</i> , 2015, 35, 45-49.	1.0	9
123	Process-parallel center deviation measurement of a BTA deep-hole drilling tool. <i>Procedia Manufacturing</i> , 2018, 24, 229-234.	1.9	9
124	Model-based manufacturing and application of metal-bonded grinding wheels. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 321-324.	1.7	9
125	Automatic re-contouring of repair-welded tool moulds. <i>Procedia Manufacturing</i> , 2019, 40, 45-50.	1.9	9
126	Preload monitoring of single nut ball screws based on sensor fusion. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 33, 63-70.	2.3	9



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127	Simulation of Residual Stress Related Part Distortion. Lecture Notes in Production Engineering, 2014, , 105-113.	0.3	9
128	Influence of metal working fluid on chip formation and mechanical loads in orthogonal cutting. International Journal of Advanced Manufacturing Technology, 2022, 118, 3005-3013.	1.5	9
129	Diamond Tools for Wire Sawing Metal Components. Key Engineering Materials, 2003, 250, 33-40.	0.4	8
130	Cutting Edge Preparation for Cemented Carbide Milling Tools. Advanced Materials Research, 0, 76-78, 597-602.	0.3	8
131	Thin tools for the high speed cutting of granite. International Journal of Abrasive Technology, 2009, 2, 173.	0.2	8
132	Airborne sound emission as a process monitoring tool in the cut-off grinding of concrete. Applied Acoustics, 2010, 71, 52-60.	1.7	8
133	Interpretation and optimization of material flow via system behavior reconstruction. Production Engineering, 2014, 8, 659-668.	1.1	8
134	Non-Destructive Determination of Residual Stress Depth Profiles of Hybrid Components by Energy Dispersive Residual Stress Measurement. Key Engineering Materials, 0, 742, 613-620.	0.4	8
135	Competence-based Personnel Scheduling through Production Data. Procedia CIRP, 2017, 63, 265-270.	1.0	8
136	Dynamic Bid Pricing for an Optimized Resource Utilization in Small and Medium Sized Enterprises. Procedia CIRP, 2018, 67, 516-521.	1.0	8
137	Grinding of riblets with "beaver tooth" multi-layer tools. Procedia CIRP, 2018, 71, 155-159.	1.0	8
138	Towards an autonomous maintenance, repair and overhaul process. Procedia Manufacturing, 2019, 40, 77-82.	1.9	8
139	New profiling approach with geometrically defined cutting edges for sintered metal bonded CBN grinding layers. Journal of Materials Processing Technology, 2020, 278, 116473.	3.1	8
140	Single grain grinding: a novel approach to model the interactions at the grain/bond interface during grinding. International Journal of Advanced Manufacturing Technology, 2020, 107, 4811-4822.	1.5	8
141	Modification of the Tool-Workpiece Contact Conditions to Influence the Tool Wear and Workpiece Loading During Hard Turning. International Journal of Automation Technology, 2011, 5, 353-361.	0.5	8
142	Gentelligente Bauteile "Genetik und Intelligenz in der Produktionstechnik. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2005, 100, 569-572.	0.2	8
143	Diamond Tools in Stone and Civil Engineering Industry - Cutting Principles, Wear and Applications. Key Engineering Materials, 2003, 250, 103-109.	0.4	7
144	Development of a System for the Deep Sawing of Granite. Key Engineering Materials, 2003, 250, 239-246.	0.4	7

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145	Multi-sensor disturbance force measurement for compliant mechanical structures. , 2010, , .		7
146	Production-based design of a hybrid load introduction element for thin-walled CFRP Structures. Production Engineering, 2018, 12, 113-120.	1.1	7
147	Automatic Regeneration of Cemented Carbide Tools for a Resource Efficient Tool Production. Procedia Manufacturing, 2018, 21, 259-265.	1.9	7
148	Influence of Prepreg Material Quality on Carbon Fiber Reinforced Plastic Laminates Processed by Automated Fiber Placement. Procedia CIRP, 2018, 67, 422-427.	1.0	7
149	Residual stresses in grinding of forming tools with toric grinding pins. Procedia CIRP, 2018, 71, 354-357.	1.0	7
150	Self-optimizing process planning for helical flute grinding. Production Engineering, 2019, 13, 599-606.	1.1	7
151	On the pulsed laser ablation of polycrystalline cubic boron nitride—Influence of pulse duration and material properties on ablation characteristics. Journal of Laser Applications, 2019, 31, 022004.	0.8	7
152	Simulation-based compensation of deflection errors in helical flute grinding. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 136-143.	2.3	7
153	Continuous modelling of machine tool failure durations for improved production scheduling. Production Engineering, 2020, 14, 207-215.	1.1	7
154	Numerical and experimental analysis of thermal and mechanical tool load when turning AISI 52100 with ground cutting edge microgeometries. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 494-501.	2.3	7
155	Material identification during turning by neural network. Journal of Machine Engineering, 2020, 20, 65-76.	0.9	7
156	Influence of Different Grinding Processes on Surface and Subsurface Characteristics of Carbide Tools. Key Engineering Materials, 2004, 257-258, 195-200.	0.4	6
157	Diamond Tools for the Grinding of Complex Ceramic Implant Surfaces. Advanced Materials Research, 2009, 76-78, 33-37.	0.3	6
158	Manufacturing of functional microstructured surfaces by grinding with vitrified SiC- and cBN-wheels. International Journal of Abrasive Technology, 2009, 2, 207.	0.2	6
159	Assessing mould costs analysing manufacturing processes of cavities. International Journal of Advanced Manufacturing Technology, 2011, 56, 943-949.	1.5	6
160	Chip formation and tool wear in turning of aluminum-alloyed UHC-steels. Production Engineering, 2014, 8, 415-421.	1.1	6
161	Chip formation in monocrystalline iron-aluminum. CIRP Journal of Manufacturing Science and Technology, 2014, 7, 71-82.	2.3	6
162	Correlation Between Friction and Wear of Cubic Borone Nitride Cutting Tools in Precision Hard Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	6

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163	Holistic process planning chain for robot machining. <i>Production Engineering</i> , 2017, 11, 715-722.	1.1	6
164	Design of individual re-contouring processes. <i>Procedia Manufacturing</i> , 2017, 14, 76-88.	1.9	6
165	Process parallel simulation of workpiece temperatures using sensory workpieces. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2018, 21, 140-149.	2.3	6
166	Frictionally damped tool holder for long projection cutting tools. <i>Production Engineering</i> , 2018, 12, 715-722.	1.1	6
167	Prediction of surface residual stress and hardness induced by ball burnishing through neural networks. <i>International Journal of Manufacturing Research</i> , 2019, 14, 295.	0.1	6
168	Enhancement of roller bearing fatigue life by innovative production processes. <i>Industrial Lubrication and Tribology</i> , 2019, 71, 1003-1006.	0.6	6
169	Analysis of potentials to improve the machining of hybrid workpieces. <i>Production Engineering</i> , 2019, 13, 11-19.	1.1	6
170	Novel continuous generating grinding process for the production of cutting tools. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 28, 1-7.	2.3	6
171	Influence of the cutting direction angle on the tool wear behavior in face plunge grinding of PcBN. <i>Wear</i> , 2020, 454-455, 203325.	1.5	6
172	Advanced Control Strategies for Active Vibration Suppression in Laser Cutting Machines. <i>International Journal of Automation Technology</i> , 2015, 9, 425-435.	0.5	6
173	Wissensmanagement im integrierten Produktlebenszyklus. <i>ZWF Zeitschrift fuer Wirtschaftlichen Fabrikbetrieb</i> , 2002, 97, 428-431.	0.2	6
174	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> , 2022, 170, 108838.	4.4	6
175	Influence of the powder metallurgy route on the mechanical properties of Cu-Cr diamond composites. <i>SN Applied Sciences</i> , 2022, 4, .	1.5	6
176	Dressing of Vitreous Bonded Wheels for Continuous Generating Grinding of Gears. <i>Key Engineering Materials</i> , 2005, 291-292, 201-206.	0.4	5
177	Sonic analysis in cut-off grinding of concrete. <i>Production Engineering</i> , 2008, 2, 209-218.	1.1	5
178	Residual Stress in PVD-Coated Carbide Cutting Inserts - Applications of the $\sin^2\psi$ and the Scattering Vector Method. <i>Materials Science Forum</i> , 0, 638-642, 2383-2388.	0.3	5
179	Process Influences in the Wire Cutting of Concrete. <i>Advanced Materials Research</i> , 2010, 126-128, 70-76.	0.3	5
180	Machining of reinforced concrete using grinding wheels with defined grain pattern. <i>International Journal of Abrasive Technology</i> , 2011, 4, 101.	0.2	5

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181	Grinding of steel-ceramic-composites. International Journal of Abrasive Technology, 2012, 5, 152.	0.2	5
182	Cutting edge orthogonal contact-zone analysis using detailed tool shape representation. International Journal of Advanced Manufacturing Technology, 2014, 75, 1641-1650.	1.5	5
183	Effects of alloying elements in UHC-steels and consequences for the machinability. CIRP Journal of Manufacturing Science and Technology, 2015, 10, 102-109.	2.3	5
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