Berend Denkena

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2281186/publications.pdf

Version: 2024-02-01

415	4,014	186265	254184
papers	citations	28 h-index	43 g-index

433	433	433	2658
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biodegradable magnesium implants for orthopedic applications. Journal of Materials Science, 2013, 48, 39-50.	3.7	242
2	Spanen. , 2011, , .		96
3	Influence of Different Surface Machining Treatments of Magnesiumâ€based Resorbable Implants on the Degradation Behavior in Rabbits. Advanced Engineering Materials, 2009, 11, B47.	3.5	88
4	Thermographic online monitoring system for Automated Fiber Placement processes. Composites Part B: Engineering, 2016, 97, 239-243.	12.0	74
5	Manufacturing of functional riblet structures by profile grinding. CIRP Journal of Manufacturing Science and Technology, 2010, 3, 14-26.	4.5	73
6	Energy efficient machine tools. CIRP Annals - Manufacturing Technology, 2020, 69, 646-667.	3.6	64
7	Basics of Cutting and Abrasive Processes. Lecture Notes in Production Engineering, 2013, , .	0.4	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.	1.9	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.	3.0	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.	12.0	48
12	Genetics and intelligence: new approaches in production engineering. Production Engineering, 2010, 4, 65-73.	2.3	47
13	Significance of residual stress in PVD-coated carbide cutting tools. CIRP Annals - Manufacturing Technology, 2013, 62, 67-70.	3.6	45
14	Design of bronze-bonded grinding wheel properties. CIRP Annals - Manufacturing Technology, 2016, 65, 333-336.	3.6	42
15	Experimental investigation and simulation of machining thin-walled workpieces. Production Engineering, 2007, 1, 343-350.	2.3	41
16	Grinding of microstructured functional surfaces: a novel strategy for dressing of microprofiles. Production Engineering, 2009, 3, 41-48.	2.3	41
17	Machine Learning Approach for Optimization of Automated Fiber Placement Processes. Procedia CIRP, 2017, 66, 74-78.	1.9	41
18	Electrical energy and material efficiency analysis of machining, additive and hybrid manufacturing. Journal of Cleaner Production, 2020, 251, 119731.	9.3	39

#	Article	IF	Citations
19	Influence of shot peening and laser ablation on residual stress state and phase composition of cemented carbide cutting inserts. International Journal of Refractory Metals and Hard Materials, 2013, 36, 85-89.	3.8	37
20	Data Mining Approach for Knowledge-based Process Planning. Procedia Technology, 2014, 15, 406-415.	1.1	37
21	Enhanced grinding performance by means of patterned grinding wheels. International Journal of Advanced Manufacturing Technology, 2015, 77, 1935-1941.	3.0	36
22	Design and optimization of a machining robot. Procedia Manufacturing, 2017, 14, 89-96.	1.9	33
23	Feeling machines for online detection and compensation of tool deflection in milling. CIRP Annals - Manufacturing Technology, 2018, 67, 423-426.	3.6	33
24	Influence of the tool corner radius on the tool wear and process forces during hard turning. International Journal of Advanced Manufacturing Technology, 2012, 58, 933-940.	3.0	32
25	Determination of Residual Stresses in Plate Material by Layer Removal with Machine-integrated Measurement. Procedia CIRP, 2014, 24, 103-107.	1.9	32
26	In vitro corrosion of ZEK100 plates in Hank's Balanced Salt Solution. BioMedical Engineering OnLine, 2012, 11, 12.	2.7	31
27	Biomechanical characterisation of a degradable magnesium-based (MgCa0.8) screw. Journal of Materials Science: Materials in Medicine, 2012, 23, 649-655.	3.6	30
28	Cutting mechanism and surface integrity in milling of Ti-5553 processed by selective laser melting. Journal of Mechanical Science and Technology, 2018, 32, 4883-4892.	1.5	30
29	Fixed abrasive machining of non-metallic materials. CIRP Annals - Manufacturing Technology, 2018, 67, 767-790.	3.6	30
30	Self-optimizing tool path generation for 5-axis machining processes. CIRP Journal of Manufacturing Science and Technology, 2019, 24, 49-54.	4.5	30
31	Energy Efficient Machining with Optimized Coolant Lubrication Flow Rates. Procedia CIRP, 2014, 24, 25-31.	1.9	29
32	Inverse Determination of Constitutive Equations and Cutting Force Modelling for Complex Tools Using Oxley's Predictive Machining Theory. Procedia CIRP, 2015, 31, 405-410.	1.9	29
33	Enabling an Industrial Robot for Metal Cutting Operations. Procedia CIRP, 2015, 35, 79-84.	1.9	29
34	Artificial intelligence for non-destructive testing of CFRP prepreg materials. Production Engineering, 2019, 13, 617-626.	2.3	29
35	Quantum algorithms for process parallel flexible job shop scheduling. CIRP Journal of Manufacturing Science and Technology, 2021, 33, 100-114.	4.5	28
36	Differences and similarities between the induced residual stresses after ball end milling and orthogonal cutting of Tiâ€“6Alâ€“4V. Journal of Materials Processing Technology, 2015, 226, 15-24.	6.3	27

#	Article	IF	Citations
37	Thermal Image-based Monitoring for the Automated Fiber Placement Process. Procedia CIRP, 2017, 62, 27-32.	1.9	27
38	Reduction of wear induced surface zone effects during hard turning by means of new tool geometries. Production Engineering, 2008, 2, 123-132.	2.3	26
39	Energy efficiency improvement of machine tool spindle cooling system with onâ€“off control. CIRP Journal of Manufacturing Science and Technology, 2019, 25, 14-21.	4.5	26
40	Condition-based tool management for small batch production. International Journal of Advanced Manufacturing Technology, 2014, 74, 471-480.	3.0	25
41	Identification of the specific cutting force for geometrically defined cutting edges and varying cutting conditions. International Journal of Machine Tools and Manufacture, 2014, 82-83, 42-49.	13.4	25
42	Impact of Hard Machining on Zirconia Based Ceramics for Dental Applications. Procedia CIRP, 2017, 65, 248-252.	1.9	25
43	Energy efficient machining of Tiâ€“6Alâ€“4V. CIRP Annals - Manufacturing Technology, 2015, 64, 61-64.	3.6	24
44	Cutting Edge Preparation by Means of Abrasive Brushing. Key Engineering Materials, 0, 438, 1-7.	0.4	23
45	Ultrafast Feed Drilling of Carbon Fiber-Reinforced Thermoplastics. Procedia CIRP, 2015, 35, 91-95.	1.9	23
46	Surface topography after re-contouring of welded Ti-6Al-4V parts by means of 5-axis ball nose end milling. International Journal of Advanced Manufacturing Technology, 2016, 85, 1585-1602.	3.0	23
47	Hybrid machining of roller bearing inner rings by hard turning and deep rolling. Journal of Materials Processing Technology, 2016, 230, 211-216.	6.3	23
48	Cooling of motor spindlesâ€”a review. International Journal of Advanced Manufacturing Technology, 2020, 110, 3273-3294.	3.0	23
49	Continuous generating grinding â€” Material engagement in gear tooth root machining. Mechanism and Machine Theory, 2014, 81, 11-20.	4.5	22
50	Energy consumption characterization in precision hard machining using CBN cutting tools. International Journal of Advanced Manufacturing Technology, 2016, 85, 2839-2845.	3.0	22
51	Process stabilization with an adaptronic spindle system. Production Engineering, 2012, 6, 485-492.	2.3	21
52	Strain gauge based sensing hydraulic fixtures. Mechatronics, 2016, 34, 111-118.	3.3	21
53	Tool Deflection Control by a Sensory Spindle Slide for Milling Machine Tools. Procedia CIRP, 2017, 62, 329-334.	1.9	21
54	The influence of the cutting tool microgeometry on the machinability of hardened AISI 4140 steel. International Journal of Advanced Manufacturing Technology, 2017, 90, 2557-2565.	3.0	20

#	Article	IF	Citations
55	Additive manufacturing of metal-bonded grinding tools. International Journal of Advanced Manufacturing Technology, 2020, 107, 2387-2395.	3.0	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, .	2.2	19
58	Recent Advances in Manufacturing of Riblets on Compressor Blades and Their Aerodynamic Impact. Journal of Turbomachinery, 2013, 135, .	1.7	19
59	Detection of tool deflection in milling by a sensory axis slide for machine tools. Mechatronics, 2016, 34, 95-99.	3.3	19
60	Influence of PVD-coating technology and pretreatments on residual stresses for sheet-bulk metal forming tools. Production Engineering, 2016, 10, 17-24.	2.3	19
61	Microstructuring of functional surfaces by means of cutting processes. Production Engineering, 2008, 2, 21-25.	2.3	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.	13.4	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.	4.5	18
64	Towards Dry Machining of Titanium-Based Alloys: A New Approach Using an Oxygen-Free Environment. Metals, 2020, 10, 1161.	2.3	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.	6.3	17
66	Manufacturing Conditioned Wear of All-ceramic Knee Prostheses. Procedia CIRP, 2013, 5, 179-184.	1.9	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.	2.2	17
68	Influence of tool material properties on the wear behavior of cemented carbide tools with rounded cutting edges. Wear, 2020, 456-457, 203395.	3.1	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.	2.7	16
71	Adaptive process planning. Production Engineering, 2012, 6, 55-67.	2.3	16
72	Manufacturing conditioned roughness and wear of biomedical oxide ceramics for all-ceramic knee implants. BioMedical Engineering OnLine, 2013, 12, 84.	2.7	16

#	Article	IF	Citations
73	Energy Efficiency in Machining of Aircraft Components. Procedia CIRP, 2016, 48, 479-482.	1.9	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.	2.4	15
77	High-Performance Cutting of Micro Patterns. Procedia CIRP, 2012, 1, 144-149.	1.9	15
78	Augmenting Milling Process Data for Shape Error Prediction. Procedia CIRP, 2016, 57, 487-491.	1.9	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.	3.6	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.	1.9	14
86	Deep learning-based classification of production defects in automated-fiber-placement processes. Production Engineering, 2019, 13, 501-509.	2.3	14
87	Analysis of different machine learning algorithms to learn stability lobe diagrams. Procedia CIRP, 2020, 88, 282-287.	1.9	14
88	Editorial: System-integrated Intelligence â€“ 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.	3.0	13
90	Hybrid tool for high performance structuring and honing of cylinder liners. CIRP Annals - Manufacturing Technology, 2017, 66, 113-116.	3.6	13

#	Article	IF	Citations
91	Increased performance in high speed turning of Inconel 718 by laser structuring of PcBN tools. Procedia CIRP, 2018, 77, 602-605.	1.9	13
92	Improving technological machining simulation by tailored workpiece models and kinematics. Procedia CIRP, 2019, 82, 224-230.	1.9	13
93	Methodology for integrative production planning in highly dynamic environments. Production Engineering, 2019, 13, 317-324.	2.3	13
94	Material identification based on machine-learning algorithms for hybrid workpieces during cylindrical operations. Journal of Intelligent Manufacturing, 2019, 30, 2449-2456.	7.3	13
95	Dynamic scheduling of maintenance measures in complex production systems. CIRP Journal of Manufacturing Science and Technology, 2013, 6, 292-300.	4.5	12
96	Process Monitoring with a Force Sensitive Axis-slide for Machine Tools. Procedia Technology, 2014, 15, 416-423.	1.1	12
97	Analytical Modeling of Surface Roughness, Hardness and Residual Stress Induced by Deep Rolling. Journal of Materials Engineering and Performance, 2017, 26, 876-884.	2.5	12
98	Development and Evaluation of an Active Magnetic Guide for Microsystems With an Integrated Air Gap Measurement System. IEEE Transactions on Magnetics, 2007, 43, 2716-2718.	2.1	11
99	Development of Combined Manufacturing Technologies for High-Strength Structural Components. Advanced Materials Research, 2010, 137, 219-246.	0.3	11
100	Simulation based Process Monitoring for Single Item Production without Machine External Sensors. Procedia Technology, 2014, 15, 341-348.	1.1	11
101	Simulation and Evaluation of Different Process Strategies in a 5-axis Re-contouring Process. Procedia CIRP, 2015, 35, 31-37.	1.9	11
102	Production Monitoring Based on Sensing Clamping Elements. Procedia Technology, 2016, 26, 235-244.	1.1	11
103	Direct Part Marking by Vibration Assisted Face Milling. Procedia Technology, 2016, 26, 185-191.	1.1	11
104	Simulation-based planning and evaluation of personnel scheduling in knowledge-intensive production systems. Production Engineering, 2016, 10, 489-496.	2.3	11
105	Influence of customized cutting edge geometries on the workpiece residual stress in hard turning. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2132-2139.	2.4	11
106	Investigations on a standardized process chain and support structure related rework procedures of SLM manufactured components. Procedia Manufacturing, 2018, 18, 50-57.	1.9	11
107	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. Metals, 2020, 10, 1363.	2.3	11
108	A novel approach to determine the velocity dependency of the friction behavior during machining by means of digital particle image velocimetry (DPIV). CIRP Journal of Manufacturing Science and Technology, 2021, 32, 81-90.	4.5	11

#	Article	IF	Citations
109	Eco- and Energy-Efficient Grinding Processes. Key Engineering Materials, 2005, 291-292, 39-44.	0.4	10
110	Mechanical information storage by use of an excited turning tool. Production Engineering, 2007, 1, 25-30.	2.3	10
111	Theoretical and Experimental Determination of Geometry Deviation in Continuous Path Controlled OD Grinding Processes. Advanced Materials Research, 2011, 223, 784-793.	0.3	10
112	Condition based maintenance planning of highly productive machine tools. Production Engineering, 2012, 6, 277-285.	2.3	10
113	Automatic process parameter adaption for a hybrid workpiece during cylindrical operations. International Journal of Advanced Manufacturing Technology, 2018, 95, 311-316.	3.0	10
114	Influence of pulsed laser ablation on the surface integrity of PCBN cutting tool materials. International Journal of Advanced Manufacturing Technology, 2019, 101, 1687-1698.	3.0	10
115	Grinding of transformation-toughened mixed oxide ceramic. International Journal of Advanced Manufacturing Technology, 2020, 109, 1463-1478.	3.0	10
116	Influence of Cemented Carbide Composition on Cutting Temperatures and Corresponding Hot Hardnesses. Materials, 2020, 13, 4571.	2.9	10
117	Statistical approaches for semi-supervised anomaly detection in machining. Production Engineering, 2020, 14, 385-393.	2.3	10
118	Synergistic approaches to ultra-precision high performance cutting. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 38-51.	4.5	10
119	Gentelligent processes in biologically inspired manufacturing. CIRP Journal of Manufacturing Science and Technology, 2021, 32, 1-15.	4.5	10
120	Laser Scanning Based Object Detection to Realize Digital Blank Shadows for Autonomous Process Planning in Machining. Journal of Manufacturing and Materials Processing, 2022, 6, 1.	2.2	10
121	Development of a concept to optimize the energy efficiency in forging process chains. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1229-1236.	2.2	9
122	Approach for Increasing the Resource Efficiency for the Production Process of Titanium Structural Components. Procedia CIRP, 2015, 35, 45-49.	1.9	9
123	Process-parallel center deviation measurement of a BTA deep-hole drilling tool. Procedia Manufacturing, 2018, 24, 229-234.	1.9	9
124	Model-based manufacturing and application of metal-bonded grinding wheels. CIRP Annals - Manufacturing Technology, 2019, 68, 321-324.	3.6	9
125	Automatic re-contouring of repair-welded tool moulds. Procedia Manufacturing, 2019, 40, 45-50.	1.9	9
126	Preload monitoring of single nut ball screws based on sensor fusion. CIRP Journal of Manufacturing Science and Technology, 2021, 33, 63-70.	4.5	9

#	Article	IF	Citations
127	Simulation of Residual Stress Related Part Distortion. Lecture Notes in Production Engineering, 2014, , 105-113.	0.4	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.	3.0	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.	3.3	8
133	Interpretation and optimization of material flow via system behavior reconstruction. Production Engineering, 2014, 8, 659-668.	2.3	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.	1.9	8
136	Dynamic Bid Pricing for an Optimized Resource Utilization in Small and Medium Sized Enterprises. Procedia CIRP, 2018, 67, 516-521.	1.9	8
137	Grinding of riblets with â€œbeaver toothâ€•multi-layer tools. Procedia CIRP, 2018, 71, 155-159.	1.9	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.	6.3	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.	3.0	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.	1.0	8
142	Gentelligente Bauteile â€“ Genetik und Intelligenz in der Produktionstechnik. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2005, 100, 569-572.	0.3	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

#	Article	IF	Citations
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.	2.3	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.	1.9	7
149	Residual stresses in grinding of forming tools with toric grinding pins. Procedia CIRP, 2018, 71, 354-357.	1.9	7
150	Self-optimizing process planning for helical flute grinding. Production Engineering, 2019, 13, 599-606.	2.3	7
151	On the pulsed laser ablation of polycrystalline cubic boron nitrideâ€"Influence of pulse duration and material properties on ablation characteristics. Journal of Laser Applications, 2019, 31, 022004.	1.7	7
152	Simulation-based compensation of deflection errors in helical flute grinding. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 136-143.	4.5	7
153	Continuous modelling of machine tool failure durations for improved production scheduling. Production Engineering, 2020, 14, 207-215.	2.3	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.	4.5	7
155	Material identification during turning by neural network. Journal of Machine Engineering, 2020, 20, 65-76.	1.8	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.	3.0	6
160	Chip formation and tool wear in turning of aluminum-alloyed UHC-steels. Production Engineering, 2014, 8, 415-421.	2.3	6
161	Chip formation in monocrystalline iron-aluminum. CIRP Journal of Manufacturing Science and Technology, 2014, 7, 71-82.	4.5	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, .	2.2	6

#	Article	IF	Citations
163	Holistic process planning chain for robot machining. Production Engineering, 2017, 11, 715-722.	2.3	6
164	Design of individual re-contouring processes. Procedia Manufacturing, 2017, 14, 76-88.	1.9	6
165	Process parallel simulation of workpiece temperatures using sensory workpieces. CIRP Journal of Manufacturing Science and Technology, 2018, 21, 140-149.	4.5	6
166	Frictionally damped tool holder for long projection cutting tools. Production Engineering, 2018, 12, 715-722.	2.3	6
167	Prediction of surface residual stress and hardness induced by ball burnishing through neural networks. International Journal of Manufacturing Research, 2019, 14, 295.	0.2	6
168	Enhancement of roller bearing fatigue life by innovative production processes. Industrial Lubrication and Tribology, 2019, 71, 1003-1006.	1.3	6
169	Analysis of potentials to improve the machining of hybrid workpieces. Production Engineering, 2019, 13, 11-19.	2.3	6
170	Novel continuous generating grinding process for the production of cutting tools. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 1-7.	4.5	6
171	Influence of the cutting direction angle on the tool wear behavior in face plunge grinding of PcBN. Wear, 2020, 454-455, 203325.	3.1	6
172	Advanced Control Strategies for Active Vibration Suppression in Laser Cutting Machines. International Journal of Automation Technology, 2015, 9, 425-435.	1.0	6
173	Wissensmanagement im integrierten Produktlebenszyklus. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2002, 97, 428-431.	0.3	6
174	Development and analysis of a mechatronic system for in-process monitoring and compensation of straightness deviation in BTA deep hole drilling. Mechanical Systems and Signal Processing, 2022, 170, 108838.	8.0	6
175	Influence of the powder metallurgy route on the mechanical properties of Cuâ€“Crâ€“diamond composites. SN Applied Sciences, 2022, 4, .	2.9	6
176	Dressing of Vitreous Bonded Wheels for Continuous Generating Grinding of Gears. Key Engineering Materials, 2005, 291-292, 201-206.	0.4	5
177	Sonic analysis in cut-off grinding of concrete. Production Engineering, 2008, 2, 209-218.	2.3	5
178	Residual Stress in PVD-Coated Carbide Cutting Inserts - Applications of the sin²Ï^ and the Scattering Vector Method. Materials Science Forum, 0, 638-642, 2383-2388.	0.3	5
179	Process Influences in the Wire Cutting of Concrete. Advanced Materials Research, 2010, 126-128, 70-76.	0.3	5
180	Machining of reinforced concrete using grinding wheels with defined grain pattern. International Journal of Abrasive Technology, 2011, 4, 101.	0.2	5

#	Article	IF	Citations
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.	3.0	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.	4.5	5
184	Autonomous Modular Process Monitoring. Procedia Technology, 2016, 26, 302-308.	1.1	5
185	Porous Metal Bonds Increase the Resource Efficiency for Profile Grinding. Procedia CIRP, 2018, 69, 265-270.	1.9	5
186	Wear curve based online feature assessment for tool condition monitoring. Procedia CIRP, 2020, 88, 312-317.	1.9	5
187	Feeling Machine for Process Monitoring of Turning Hybrid Solid Components. Metals, 2020, 10, 930.	2.3	5
188	Production-Related Surface and Subsurface Properties and Fatigue Life of Hybrid Roller Bearing Components. Metals, 2020, 10, 1339.	2.3	5
189	Production of chip breakers on cemented carbide tools using laser ablation. Procedia CIRP, 2020, 94, 834-839.	1.9	5
190	Efficient Generation of a Digital Twin Using Object Detection for Data Acquisition and XML-Interface for Model Creation. Procedia CIRP, 2020, 93, 274-279.	1.9	5
191	Feeling Machine for Process Monitoring of Components with Stock Allowance. Machines, 2021, 9, 53.	2.2	5
192	Lebenszykluskostenreduzierung durch zustandsorientierte Instandhaltung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 498-502.	0.3	5
193	BerÃ¼cksichtigung temporÃrer Effekte von Lebenszykluskosten in der Technologiebewertung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2010, 105, 959-963.	0.3	5
194	AUTONOMOUS MACHINING â€“ RECENT ADVANCES IN PROCESS PLANNING AND CONTROL. Journal of Machine Engineering, 2019, 19, 28-37.	1.8	5
195	Tool deflection compensation by drive signal-based force reconstruction and process control. Procedia CIRP, 2021, 104, 571-575.	1.9	5
196	Suitability of natural rocks as materials for cutting tools. SN Applied Sciences, 2022, 4, 1.	2.9	5
197	Potential of the Electro Contact Discharge Dressing Method in Truing and Sharpening Super Abrasive Grinding Wheels. Key Engineering Materials, 2004, 257-258, 353-358.	0.4	4
198	Dressing Monitoring by Acoustic Emission. Key Engineering Materials, 2005, 291-292, 195-200.	0.4	4

#	Article	IF	Citations
199	A novel adaptive process planning framework. , 2006, , 487-492.		4
200	Active linear guidances for micro actuators: alternative concepts and first prototypes. Microsystem Technologies, 2008, 14, 1961-1973.	2.0	4
201	Contact Conditions in 5-Axis-Grinding of Double Curved Surfaces with Toric Grinding Wheels. Advanced Materials Research, 2010, 126-128, 41-46.	0.3	4
202	Grinding of Steel-Ceramic-Composites. Advanced Materials Research, 2011, 325, 116-121.	0.3	4
203	XY-table for desktop machine tools based on a new fluidic planar drive. Production Engineering, 2013, 7, 535-539.	2.3	4
204	Wear Mechanisms in Grinding of PCBN. Advanced Materials Research, 0, 1136, 555-560.	0.3	4
205	Estimation of Production Cost in an Early Design Stage of CFRP Lightweight Structures. Procedia CIRP, 2017, 62, 45-50.	1.9	4
206	Smart and energy-efficient dust suction concept for milling of fibre-reinforced plastics. Production Engineering, 2017, 11, 723-729.	2.3	4
207	Micro crack formation in hardmetal milling tools. International Journal of Refractory Metals and Hard Materials, 2018, 70, 210-214.	3.8	4
208	Resource Efficient Regrinding of Cemented Carbide Milling Tools. Procedia CIRP, 2018, 69, 882-887.	1.9	4
209	Impact of hybrid workpieces on statistical process monitoring of machining operations. International Journal of Advanced Manufacturing Technology, 2018, 99, 765-771.	3.0	4
210	Innovative method for cutting edge preparation with flexible diamond tools. Procedia CIRP, 2019, 86, 121-125.	1.9	4
211	Wear Behaviour of Coated Cemented Carbide Inserts in an Oxygen-Free Atmosphere when Machining Ti-6Al-4V. Defect and Diffusion Forum, 0, 404, 28-35.	0.4	4
212	Prediction of plastic surface defects for 5-axis ball end milling of Ti-6Al-4â€˜V with rounded cutting edges using a material removal simulation. CIRP Annals - Manufacturing Technology, 2021, 70, 91-94.	3.6	4
213	Potential of process information transfer along the process chain of hybrid components for process monitoring of the cutting process. Production Engineering, 2021, 15, 199-209.	2.3	4
214	Surface topography after deep rolling with milling kinematics. Production Engineering, 2021, 15, 587-593.	2.3	4
215	Self-optimizing process planning of multi-step polishing processes. Production Engineering, 2021, 15, 563-571.	2.3	4
216	Development of a Shape Replicating Draping Unit for Continuous Layup of Unidirectional Non-Crimp Fabrics on Complex Surface Geometries. Journal of Composites Science, 2021, 5, 93.	3.0	4

#	Article	IF	Citations
217	Design of Simulation Models. Springer Series in Advanced Manufacturing, 2022, , 181-204.	0.5	4
218	Performance evaluation of the edge preparation of tungsten carbide inserts applied to hard turning. International Journal of Advanced Manufacturing Technology, 2021, 112, 3515-3527.	3.0	4
219	Simulation Based Detailed Planning for Agile Manufacturing. , 2012, , 512-517.		4
220	Generation of tailored subsurface zones in steels containing metastable austenite by adaptive machining and validation by eddy current testing. TM Technisches Messen, 2020, 87, 704-713.	0.7	4
221	Highly Dynamic Spindle Integrated Magnet Actuators for Chatter Reduction. International Journal of Automation Technology, 2018, 12, 669-677.	1.0	4
222	Modellbasierte Temperaturkompensation fÃ¼r Werkzeugmaschinen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 698-702.	0.3	4
223	FE-Simulation Based Design of Wear-Optimized Cutting Edge Roundings. Journal of Manufacturing and Materials Processing, 2021, 5, 126.	2.2	4
224	Ecological Planning of Manufacturing Process Chains. Sustainability, 2022, 14, 2681.	3.2	4
225	Turning Copper and Aluminum Alloys with Natural Rocks as Cutting Tools. Materials, 2022, 15, 2187.	2.9	4
226	Evaluation of methods for measuring tool-chip contact length in wet machining using different approaches (microtextured tool, in-situ visualization and restricted contact tool). Production Engineering, 2022, 16, 635-646.	2.3	4
227	Machining of micro-systems. Microsystem Technologies, 2008, 14, 1909-1916.	2.0	3
228	Design, fabrication, and calibration of capacitive air gap sensors for the application in levitation based guides in microactuators. , 2009, , .		3
229	An approach to reduce the influence of tool wear on workpiece properties during hard turning. International Journal of Microstructure and Materials Properties, 2009, 4, 605.	0.1	3
230	Wire Cutting Tool Concepts for Steel Machining. Advanced Materials Research, 2011, 325, 238-243.	0.3	3
231	Multicriteria dimensioning of hard-finishing operations regarding cross-process interdependencies. Journal of Intelligent Manufacturing, 2012, 23, 2333-2342.	7.3	3
232	Residual Stress Development in Laser Machined PVD-Coated Carbide Cutting Tools. Materials Science Forum, 0, 768-769, 391-397.	0.3	3
233	Affecting the Life Time of Roller Bearings by an Optimal Surface Integrity Design after Hard Turning and Deep Rolling. Advanced Materials Research, 0, 966-967, 425-434.	0.3	3
234	Active Chatter Damping in Plunge Grinding Using Magnetic Actuators. , 2014, , .		3

#	Article	IF	Citations
235	Workpiece Shape Deviations in Face Milling of Hybrid Structures. Materials Science Forum, 2015, 825-826, 336-343.	0.3	3
236	Combining in-house Pooling and Sequencing for Product Regeneration by Means of Event-driven Simulation. Procedia CIRP, 2017, 62, 153-158.	1.9	3
237	Chip formation in machining metal bonded grinding layers. Procedia CIRP, 2018, 78, 55-60.	1.9	3
238	Wear mechanisms of CVD diamond tools for patterning vitrified corundum grinding wheels. Wear, 2019, 436-437, 203007.	3.1	3
239	Porous metal bonds increase the resource efficiency for profile grinding II. Procedia CIRP, 2019, 80, 114-119.	1.9	3
240	Prediction of Ground Surfaces by Using the Actual Tool Topography. Journal of Manufacturing and Materials Processing, 2019, 3, 40.	2.2	3
241	Suitability of integrated sensors for the determination of chatter characteristics in a cylindrical grinding machine. International Journal of Advanced Manufacturing Technology, 2019, 102, 2339-2344.	3.0	3
242	QualitÃtssicherung mittels angereicherten Prozessinformationen. TM Technisches Messen, 2019, 86, 522-527.	0.7	3
243	Environmental evaluation of process chains. Procedia CIRP, 2020, 88, 265-269.	1.9	3
244	Influence of subsurface properties on the application behavior of hybrid components. Procedia CIRP, 2020, 87, 302-308.	1.9	3
245	Effects on the deformation-induced martensitic transformation in AISI 304 in external longitudinal turning. Advances in Industrial and Manufacturing Engineering, 2021, 2, 100044.	2.1	3
246	Influence of End Mill Manufacturing on Cutting Edge Quality and Wear Behavior. Journal of Manufacturing and Materials Processing, 2021, 5, 77.	2.2	3
247	Model-Based Dimensioning of Multistage Processes Regarding Multiple Criteria. Advances in Intelligent and Soft Computing, 2010, , 1043-1056.	0.2	3
248	Simulationsbasierte kombinierte Instandhaltungs- und Produktionsplanung. , 2020, , 261-273.		3
249	Roadmapping zur strategischen Unternehmensplanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2008, 103, 856-860.	0.3	3
250	CA-Technologien in der Fertigungs- und Prozessplanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 300-305.	0.3	3
251	Methoden zur Simulation und Kompensation von eigenspannungsbedingtem Bauteilverzug. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2013, 108, 208-211.	0.3	3
252	Virtuelles Formmodell zur Angebotskalkulation von Druckgussformen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 45-49.	0.3	3

#	Article	IF	Citations
253	Adaptive Cutting Force Control with a Hybrid Axis System. International Journal of Automation Technology, 2013, 7, 378-384.	1.0	3
254	Innovative Zerspanung mit Industrierobotern. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 514-517.	0.3	3
255	Transfer of Process References between Machine Tools for Online Tool Condition Monitoring. Machines, 2021, 9, 282.	2.2	3
256	A regeneration process chain with an integrated decision support system for individual regeneration processes based on a virtual twin. International Journal of Production Research, 2022, 60, 4137-4158.	7.5	3
257	Material dependent surface and subsurface properties of hybrid components. Production Engineering, 2022, 16, 647-659.	2.3	3
258	Linear-rotary direct drive for multi-functional machine tools. CIRP Annals - Manufacturing Technology, 2022, 71, 349-352.	3.6	3
259	Investigation of the material separation behaviour of rocks using scratch tests for the design of tool grinding processes. SN Applied Sciences, 2022, 4, 1.	2.9	3
260	Geometrical process design during continuous generating grinding of cutting tools. International Journal of Advanced Manufacturing Technology, 2022, 121, 3871-3882.	3.0	3
261	Characterization of Vitreous Bonded Grinding Wheels for CNC Crushing. Key Engineering Materials, 2004, 257-258, 303-310.	0.4	2
262	An Assessment of the Machinability of Ironâ€Rich Ironâ€Aluminium Alloys. Steel Research International, 2005, 76, 261-264.	1.8	2
263	Three-Dimensional Optical Measurement with Locally Adapted Projection. Advanced Materials Research, 2007, 22, 83-90.	0.3	2
264	Dressing of filigree fine-grained metal bonded grinding wheels. Production Engineering, 2007, 1, 239-243.	2.3	2
265	Optimization of Non-Cutting Tool Paths. Advanced Materials Research, 0, 223, 911-917.	0.3	2
266	On the Extraction of Milling Tools Out of Shrink Fit Chucks. Key Engineering Materials, 0, 523-524, 445-450.	0.4	2
267	Virtual Stochastic Sensors for Reconstructing Job Shop Production Workflows. , 2013, , .		2
268	Surface Integrity - an Inherent Load Sensor. Advanced Materials Research, 2013, 797, 679-684.	0.3	2
269	Grinding of Riblet Structures on Free Formed Compressor Blades. Advanced Materials Research, 2014, 907, 463-473.	0.3	2
270	Variable Forming Tool and Process for Thermoset Prepregs with Simulation Verified Part Quality. Key Engineering Materials, 2014, 611-612, 391-398.	0.4	2

#	Article	IF	Citations
271	Application of methods for ecological optimization of crank shaft forging process. Production Engineering, 2014, 8, 253-261.	2.3	2
272	Chip root analyses in peripheral longitudinal up-grinding by means of a new quick-stop device. International Journal of Abrasive Technology, 2015, 7, 59.	0.2	2
273	Flow stress and temperature considerations for orthogonal cutting of an aluminum-alloyed UHC-steel. Production Engineering, 2015, 9, 337-342.	2.3	2
274	Grinding of Riblets on Curved Paths. Materials Science Forum, 0, 874, 28-33.	0.3	2
275	A new process chain for recycling of cemented carbide milling tools. Production Engineering, 2018, 12, 547-553.	2.3	2
276	Technological CAD/CAM chain for automated polishing of geometrically complex workpieces. Procedia CIRP, 2018, 78, 313-317.	1.9	2
277	Energy-efficient control of dust extraction for the machining of fibre-reinforced plastics. Procedia CIRP, 2018, 78, 49-54.	1.9	2
278	Investigations on a predictive process parameter adaptation for machining of hybrid workpieces. CIRP Journal of Manufacturing Science and Technology, 2018, 23, 1-5.	4.5	2
279	Chamfer texturing of tungsten carbide inserts applied to turning of grey cast iron. International Journal of Advanced Manufacturing Technology, 2019, 104, 4655-4664.	3.0	2
280	Knowledge-based process planning for economical re-scheduling in production control. Procedia CIRP, 2019, 81, 980-985.	1.9	2
281	Function-optimised generation of an adapted target model for mechanical re-contouring of fan blades. Procedia CIRP, 2020, 93, 562-567.	1.9	2
282	Influence of a Dynamic Consolidation Force on In Situ Consolidation Quality of Thermoplastic Composite Laminate. Journal of Composites Science, 2021, 5, 88.	3.0	2
283	Anwendungen des maschinellen Lernens in der Produktion aus Auftrags- und Produktsicht. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 358-362.	0.3	2
284	Reprint of: Gentelligent processes in biologically inspired manufacturing. CIRP Journal of Manufacturing Science and Technology, 2021, 34, 105-118.	4.5	2
285	Dexel-Based Simulation of Directed Energy Deposition Additive Manufacturing. Journal of Manufacturing and Materials Processing, 2021, 5, 9.	2.2	2
286	Simulation-based feed rate adaptation considering tool wear condition. Procedia Manufacturing, 2020, 52, 133-137.	1.9	2
287	Senkung der Lebenszykluskosten von Werkzeugmaschinen durch KomponentenÃ¼berwachung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2006, 101, 440-443.	0.3	2
288	Wirtschaftliche ProzessfÃ¼hrung bei der Hartfeinbearbeitung von Kurbelwellen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 141-146.	0.3	2

#	Article	IF	Citations
289	Auslegung von SchneidkÃ¶rpern fÃ¼r das Seilschleifen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 340-347.	0.3	2
290	ProzessstabilitÃt eines kordelierten SchaftfrÃsers. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2010, 105, 37-41.	0.3	2
291	Effizienz durch integriertes Prozesswissen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2012, 107, 39-42.	0.3	2
292	Wissensmanagement in der Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 444-447.	0.3	2
293	FÃ¼hlende Spannelemente Ã¼berwachen die WerkstÃ¼ckeinspannung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 698-700.	0.3	2
294	ProzessÃ¼berwachung in der Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2016, 111, 174-177.	0.3	2
295	Elektromagnetische LinearfÃ¼hrung fÃ¼r die hochprÃzise Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2018, 113, 443-447.	0.3	2
296	Surface Inspection System for Large Sheet Metal Parts. Advanced Materials Research, 0, , 559-564.	0.3	2
297	Technologische und logistische Optimierung von Schmiedeprozessketten. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2010, 105, 1069-1073.	0.3	2
298	Konzept einer kompetenzorientierten Fertigungsplanung fÃ¼r die Werkstattfertigung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2012, 107, 707-711.	0.3	2
299	Estudo sobre a integridade superficial do aÃ§o ABNT 4140 apÃ³s a operaÃ§Ã£o de torneamento. Revista Materia, 2020, 25, .	0.2	2
300	Operational behaviour of graded diamond grinding wheels for end mill cutter machining. SN Applied Sciences, 2022, 4, 1.	2.9	2
301	Hard Fine Machining of Gears through Continuous Generating Grinding. Key Engineering Materials, 2004, 257-258, 291-296.	0.4	1
302	Surface Inspection System for Large Sheet Metal Parts. Advanced Materials Research, 2005, 6-8, 559-564.	0.3	1
303	Optical inspection system for implants. , 2006, , .		1
304	Model-Based Compensation of Geometry-Errors when Grinding Material Compounds. Key Engineering Materials, 0, 389-390, 240-245.	0.4	1
305	Dimensional Measurement by Projection of Locally Adapted Patterns. Steel Research International, 2008, 79, 208-212.	1.8	1
306	Development of New Combined Manufacturing Technologies - Influence of the Cutting Process on Workpiece Properties. Steel Research International, 2008, 79, 196-201.	1.8	1

#	Article	IF	Citations
307	Development in the Dressing of Super Abrasive Grinding Wheels. Key Engineering Materials, 0, 404, 1-10.	0.4	1
308	Adaptronic Systems in Robot Manufacturing. Advanced Materials Research, 0, 383-390, 1013-1018.	0.3	1
309	Development of a Calorimeter to Determine the Chip Heat in Drilling of C45EN. Key Engineering Materials, 2012, 504-506, 1341-1346.	0.4	1
310	Recent Advances in Manufacturing of Riblets on Compressor Blades and Their Aerodynamic Impact. , 2012, , .		1
311	Development of an advanced micro-positioning system for increasing operation accuracy: consideration of high pressure sealing. Production Engineering, 2012, 6, 213-218.	2.3	1
312	Special issue WGP: â€œSystem-integrated intelligence: new challenges for product and production engineeringâ€: Production Engineering, 2013, 7, 1-1.	2.3	1
313	A hybrid ultrasonic squeeze film and magnetic levitation actuator for machine guideways. , 2013, , .		1
314	Interaction of Load and Residual Stresses in Sintered 1.3344 High Speed Steel. Advanced Materials Research, 2014, 1018, 145-152.	0.3	1
315	Stock-Market Related Price Determination in Consideration of Time Dynamic Cost Factors. Procedia CIRP, 2015, 33, 593-598.	1.9	1
316	Analysis of Chatter Vibration and Tool Deflection in Milling with a Novel Active Machine Tool Guide. Applied Mechanics and Materials, 2015, 794, 331-338.	0.2	1
317	A Mechanical Model of Diamond Wire Sawing of Steel Structures. Materials Science Forum, 0, 874, 22-27.	0.3	1
318	Performance of a piezo-hydraulic fine positioning device: Experimental analyses with a scaled model. Production Engineering, 2017, 11, 613-619.	2.3	1
319	Technology-Based Recontouring of Blade Integrated Disks After Weld Repair. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	1
320	Mathematical description of aesthetic criteria for process planning and quality control of luxury yachts. Procedia CIRP, 2019, 79, 478-483.	1.9	1
321	Compensation of part distortion in process design for re-contouring processes. Procedia CIRP, 2019, 81, 820-825.	1.9	1
322	Approaches for an energy and resource efficient manufacturing in the aircraft industry. Procedia CIRP, 2019, 80, 180-185.	1.9	1
323	Surface Integrity of Laser Beam Welded Steelâ€“Aluminium Alloy Hybrid Shafts after Turning. Metals, 2019, 9, 134.	2.3	1
324	Pulsed laser micro ablation of polycrystalline cubic boron nitride. Procedia CIRP, 2020, 94, 823-828.	1.9	1

#	Article	IF	Citations
325	Formation of White Etching Layers by Deep Rolling of AISI 4140 Steel. Journal of Materials Engineering and Performance, 2020, 29, 4351-4359.	2.5	1
326	Correlation between Coating Properties and Thermal Load of Craln-Coated Cutting Tools during Machining of AISI4140. Defect and Diffusion Forum, 2020, 404, 53-60.	0.4	1
327	Prediction of part distortion in re-contouring processes. CIRP Journal of Manufacturing Science and Technology, 2020, 29, 25-35.	4.5	1
328	Machining Processes. Springer Handbooks, 2021, , 409-460.	0.6	1
329	Sensory zero-point clamping system for condition and process monitoring. Procedia CIRP, 2021, 96, 359-364.	1.9	1
330	Modular sequence optimization with hybrid genetic algorithm. Procedia CIRP, 2021, 96, 51-56.	1.9	1
331	Schleifbearbeitung von Verbunden aus Stahl und Keramik. , 0, , 708-713.		1
332	Prozessketten fÃ¼r Kurbelwellen Ã¶kologisch gestalten. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2013, 108, 224-228.	0.3	1
333	Industrie 4.0 in der Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2014, 109, 537-541.	0.3	1
334	Zustandsorientierte Instandhaltung von ZugradsÃtzen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 635-638.	0.3	1
335	Piezohydraulische Feinjustierung von GroÃŸbauteilen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 616-619.	0.3	1
336	Kompetenzorientierte Arbeitsplatzwechsel. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2017, 112, 640-643.	0.3	1
337	Residual Stress Gradients in PVD-Coated Carbide Cutting Tools. Materials Science Forum, 0, , 607-612.	0.3	1
338	Dressing of Vitreous Bonded Wheels for Continuous Generating Grinding of Gears. Key Engineering Materials, 0, , 201-206.	0.4	1
339	ENERGY-BASED CHARACTERIZATION OF PRECISION HARD MACHINING USING PARTIALLY WORN CBN CUTTING TOOLS. Journal of Machine Engineering, 2019, 19, 55-62.	1.8	1
340	Investigation of the influence of the forming process and finishing processes on the properties of the surface and subsurface of hybrid components. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	1
341	Generisches Wissensmanagement fÃ¼r modulare Unternehmensanwendungen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2003, 98, 371-374.	0.3	1
342	Werkzeuge fÃ¼r die wissensintensive Produktion von morgen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2005, 100, 165-168.	0.3	1

#	Article	IF	Citations
343	WandlungsfÃhige Produktionssysteme mit Hilfe von Prozesskettensimulation. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2010, 105, 47-51.	0.3	1
344	Erarbeitung einer zeitdynamischen Kalkulationsmethode unter Einbeziehung kapazitiver EinflÃ¼sse. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2011, 106, 157-160.	0.3	1
345	Logistische Erfassung, Steuerung und Bewertung. , 2014, , 431-479.		1
346	Increasing the Measuring Accuracy of a Sensory Swing Clamp by Multi-Sensor Evaluation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	1
347	Piezo-actuated hybrid tool for the micro structuring of cylinder liners in an energy-efficient process chain. Procedia Manufacturing, 2020, 52, 138-143.	1.9	1
348	Influence of the Manufacturing Process on the Local Properties of Bronze-Bonded Grinding Tools. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	1
349	Influence of dressing strategy on tool wear and performance behavior in grinding of forming tools with toric grinding pins. Production Engineering, 2022, 16, 513-522.	2.3	1
350	Process design of a novel combination of peel grinding and deep rolling. Production Engineering, 2022, 16, 503-512.	2.3	1
351	Wear-adaptive optimization of in-process conditioning parameters during face plunge grinding of PcBN. Scientific Reports, 2022, 12, 1012.	3.3	1
352	Wear analysis and finishing of bioceramic implant surfaces. Studies in Health Technology and Informatics, 2008, 133, 75-82.	0.3	1
353	Kostenvorteile durch adaptive PrÃ¼fplanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2022, 117, 178-181.	0.3	1
354	Digital surface twin for ultra-precision high performance cutting. Precision Engineering, 2022, 77, 349-359.	3.4	1
355	Influence of Material Properties on the Detectability of Residual Stress by Barkhausen Noise Analysis. Materials Science Forum, 2002, 404-407, 887-892.	0.3	0
356	Surface inspection system for carriage parts. , 2006, 6198, 619801.		0
357	Adaptronic Precision Positioning Technology. , 2009, , .		0
358	Optical Quality Control of High-Strength Structures. Advanced Materials Research, 0, 137, 295-316.	0.3	0
359	Electro-Contact Discharge Dressing of Cut-Off Grinding Disks for Natural Stone Machining. Key Engineering Materials, 2013, 548, 90-97.	0.4	0
360	Cutting Edge Preparation of PCBN Inserts. Advanced Materials Research, 2013, 797, 183-188.	0.3	0

#	Article	IF	Citations
361	The Influence of Initial Commutator Surface Roughness on Wear of the Starter Motor Commutation System. Advanced Materials Research, 2014, 966-967, 96-102.	0.3	0
362	Special issue on system-integrated intelligence. New challenges for product and production engineering. Mechatronics, 2016, 34, A1-A3.	3.3	0
363	A New Tool Concept for Milling Automotive Components. Procedia CIRP, 2016, 46, 444-447.	1.9	0
364	Internally Cooled Toric Tools for Grinding of Medical Ceramics. Advanced Materials Research, 0, 1136, 678-683.	0.3	0
365	Stator-Integrated Damping of Chatter Vibrations for Induction Motor Spindles. , 2018, , .		0
366	Energy Efficient Process Chains for the Production of Powertrains. Procedia Manufacturing, 2020, 43, 48-55.	1.9	0
367	Optimization of delivery adherence based on capacity planning and bid pricing. Production Engineering, 2020, 14, 309-318.	2.3	0
368	MagnetfÃ¼hrung in der Optikfertigung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 279-283.	0.3	0
369	Anticipatory Online Compensation of Tool Deflection Using a Priori Information from Process Planning. Journal of Manufacturing and Materials Processing, 2021, 5, 90.	2.2	0
370	Energieeffizientes Recycling von TitanspÃnen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 469-472.	0.3	0
371	Optimised process planning for re-contouring of repair-welded tool moulds by using a specific force model. Procedia CIRP, 2021, 101, 46-49.	1.9	0
372	Measures for Energy-Efficient Process Chains. Procedia CIRP, 2021, 98, 288-293.	1.9	0
373	An optical-flow-based monitoring method for measuring translational motion in infrared-thermographic images of AFP processes. Production Engineering, 0, , 1.	2.3	0
374	Kontakterosion. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2003, 98, 498-500.	0.3	0
375	Regelung eines hybriden Positioniersystems (Control of a Hybrid Positioning System). Automatisierungstechnik, 2004, 52, 536-543.	0.8	0
376	Automatische QualitÃtskontrolle medizinischer Implantate. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2005, 100, 121-124.	0.3	0
377	Die gentelligente^{Â®} Produktion â€“ Zukunftsweisend Fertigen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2007, 102, 626-629.	0.3	0
378	Zukunftsweisend Fertigen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 593-598.	0.3	0

#	Article	IF	Citations
379	Analyse und Optimierung des Datenmanagements in variantenreicher Werkstattfertigung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 787-790.	0.3	0
380	Bewertung der Auslegungsvarianten von Druckgussformen durch Virtual Prototyping. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2010, 105, 1052-1056.	0.3	0
381	Neue Fertigungstechnologien in der Biomedizintechnik. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2012, 107, 48-54.	0.3	0
382	BÃ¶rsenorientierte Preisbildungsmechanismen im Werkzeug- und Formenbau. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2012, 107, 94-98.	0.3	0
383	Competence-Based Planning of Coupled Process Chains. Lecture Notes in Mechanical Engineering, 2013, , 1009-1021.	0.4	0
384	Wear. Lecture Notes in Production Engineering, 2013, , 129-157.	0.4	0
385	Werkzeugtechnologie. , 2014, , 53-125.		0
386	Hartfeinbearbeitung. , 2014, , 221-309.		0
387	Bewertung mehrstufiger CFK-Fertigungsprozesse. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2013, 108, 855-859.	0.3	0
388	Product Identification by Machined Micro Patterns. International Journal of Automation Technology, 2013, 7, 735-741.	1.0	0
389	Modellierung von Spindeln unter realen BelastungszustÃnden. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2013, 108, 823-826.	0.3	0
390	CAPE: Eine Lean-Weiterbildung fÃ¼r die Lean Production. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2014, 109, 149-152.	0.3	0
391	Potentiale elektromagnetischer LinearfÃ¼hrungen in Werkzeugmaschinen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2014, 109, 625-628.	0.3	0
392	EXPERIMENTAL STUDY ON TURNING OF GRAY CAST IRON USING TEXTURIZED TUNGSTEN CARBIDE INSERTS. , 0, , .		0
393	Hochleistungszerspanprozesse fÃ¼r hohe OberflÃchenqualitÃten. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 510-513.	0.3	0
394	Qualifizierung in die richtige Richtung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 587-590.	0.3	0
395	Prozessbegleitende WerkstoffÃ¼bergangsdetetektion. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2016, 111, 407-410.	0.3	0
396	Methode zur automatisierten Auslegung kundenindividueller Stufenbohrer. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2016, 111, 479-482.	0.3	0

#	Article	IF	Citations
397	Fluid Dynamic Drive Module for Planar Motion in Three Degrees of Freedom. Lecture Notes in Production Engineering, 2017, , 131-143.	0.4	0
398	Werkstoffspezifische Mikrogeometrie von FrÃswerkzeugen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2017, 112, 481-484.	0.3	0
399	Virtuelle Prozesssimulation fÃ¼r FrÃsprozesse. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2018, 113, 804-808.	0.3	0
400	Drehwalzen: Zerspanprozess und OberflÃchenveredelung vereint. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2019, 114, 422-425.	0.3	0
401	BerÃ¼cksichtigung von OberflÃcheneigenschaften in der CAD/CAM-Kette. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2019, 114, 702-706.	0.3	0
402	Modelagem e anÃ¡lise numÃ©ricas da operaÃ§Ã£o de roleteamento do aÃ§o ABNT 4140. Revista Materia, 2020, 25, .	0.2	0
403	KI-gestÃ¼tzte ProzessÃ¼berwachung in der Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 295-298.	0.3	0
404	Deflection compensation on a force sensing mobile machine tool. Procedia Manufacturing, 2020, 52, 156-161.	1.9	0
405	SpannkÃ¶pfe Ã¼berwachen sich selbst. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 74-76.	0.3	0
406	Wiederaufbereitung von Wendeschneidplatten aus Gestein. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 476-479.	0.3	0
407	Influence of the Carbon Content on the Surface Integrity of Deep Rolled Steels. Journal of Tribology, 2021, 143, .	1.9	0
408	A novel tool monitoring approach for diamond wire sawing. Production Engineering, 0, , 1.	2.3	0
409	Energieeffiziente Herstellung von Titanbauteilen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 617-620.	0.3	0
410	Artificial Wear for the Assessment of Monitoring Performance. Procedia CIRP, 2021, 104, 1023-1028.	1.9	0
411	Electromagnetic Ultra-Precision Linear Guide. Lecture Notes in Production Engineering, 2022, , 75-106.	0.4	0
412	Simulation-based design of flank face modification for the milling of Ti-6Al-4V and InconelÂ718. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	0
413	Process limits in high-performance peel grinding of hardened steel components with coarse CBN grinding wheels. International Journal of Advanced Manufacturing Technology, 2022, 120, 6079-6090.	3.0	0
414	Influence of the atmosphere and temperature on the properties of the oxygen-affine bonding system titanium-diamond during sintering. International Journal of Advanced Manufacturing Technology, 0, , .	3.0	0

#	Article	IF	Citations
415	Effect of mechanical finishing on residual stresses and application behavior of wire arc additive manufactured aluminum components. Procedia CIRP, 2022, 108, 135-140.	1.9	0