Berend Denkena

List of Publications by Year
in descending order

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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	Design of Simulation Models. Springer Series in Advanced Manufacturing, 2022, , 181-204.	0.5	4
2	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
3	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
4	Process design of a novel combination of peel grinding and deep rolling. Production Engineering, 2022, 16, 503-512.	2.3	1
5	Electromagnetic Ultra-Precision Linear Guide. Lecture Notes in Production Engineering, 2022, , 75-106.	0.4	0
6	Wear-adaptive optimization of in-process conditioning parameters during face plunge grinding of PcBN. Scientific Reports, 2022, 12, 1012.	3.3	1
7	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
8	Operational behaviour of graded diamond grinding wheels for end mill cutter machining. SN Applied Sciences, 2022, 4, 1.	2.9	2
9	Ecological Planning of Manufacturing Process Chains. Sustainability, 2022, 14, 2681.	3.2	4
10	Turning Copper and Aluminum Alloys with Natural Rocks as Cutting Tools. Materials, 2022, 15, 2187.	2.9	4
11	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
12	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
13	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
14	Material dependent surface and subsurface properties of hybrid components. Production Engineering, 2022, 16, 647-659.	2.3	3
15	Suitability of natural rocks as materials for cutting tools. SN Applied Sciences, 2022, 4, 1.	2.9	5
16	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
17	Kostenvorteile durch adaptive PrÃ¼fplanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2022, 117, 178-181.	0.3	1
18	Linear-rotary direct drive for multi-functional machine tools. CIRP Annals - Manufacturing Technology, 2022, 71, 349-352.	3.6	3

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19	Influence of the powder metallurgy route on the mechanical properties of Cuâ€“Crâ€“diamond composites. SN Applied Sciences, 2022, 4, .	2.9	6
20	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
21	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
22	Geometrical process design during continuous generating grinding of cutting tools. International Journal of Advanced Manufacturing Technology, 2022, 121, 3871-3882.	3.0	3
23	Digital surface twin for ultra-precision high performance cutting. Precision Engineering, 2022, 77, 349-359.	3.4	1
24	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
25	Machining Processes. Springer Handbooks, 2021, , 409-460.	0.6	1
26	Sensory zero-point clamping system for condition and process monitoring. Procedia CIRP, 2021, 96, 359-364.	1.9	1
27	Modular sequence optimization with hybrid genetic algorithm. Procedia CIRP, 2021, 96, 51-56.	1.9	1
28	Gentelligent processes in biologically inspired manufacturing. CIRP Journal of Manufacturing Science and Technology, 2021, 32, 1-15.	4.5	10
29	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
30	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
31	Surface topography after deep rolling with milling kinematics. Production Engineering, 2021, 15, 587-593.	2.3	4
32	Self-optimizing process planning of multi-step polishing processes. Production Engineering, 2021, 15, 563-571.	2.3	4
33	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
34	Feeling Machine for Process Monitoring of Components with Stock Allowance. Machines, 2021, 9, 53.	2.2	5
35	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
36	Anwendungen des maschinellen Lernens in der Produktion aus Auftrags- und Produktsicht. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 358-362.	0.3	2

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37	Quantum algorithms for process parallel flexible job shop scheduling. CIRP Journal of Manufacturing Science and Technology, 2021, 33, 100-114.	4.5	28
38	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
39	MagnetfÃ¼hrung in der Optikfertigung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 279-283.	0.3	0
40	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
41	Reprint of: Gentelligent processes in biologically inspired manufacturing. CIRP Journal of Manufacturing Science and Technology, 2021, 34, 105-118.	4.5	2
42	Influence of End Mill Manufacturing on Cutting Edge Quality and Wear Behavior. Journal of Manufacturing and Materials Processing, 2021, 5, 77.	2.2	3
43	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
44	Energieeffizientes Recycling von TitanspÃnen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 469-472.	0.3	0
45	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
46	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
47	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
48	Dexel-Based Simulation of Directed Energy Deposition Additive Manufacturing. Journal of Manufacturing and Materials Processing, 2021, 5, 9.	2.2	2
49	Measures for Energy-Efficient Process Chains. Procedia CIRP, 2021, 98, 288-293.	1.9	0
50	Influence of the Carbon Content on the Surface Integrity of Deep Rolled Steels. Journal of Tribology, 2021, 143, .	1.9	0
51	FE-Simulation Based Design of Wear-Optimized Cutting Edge Roundings. Journal of Manufacturing and Materials Processing, 2021, 5, 126.	2.2	4
52	Transfer of Process References between Machine Tools for Online Tool Condition Monitoring. Machines, 2021, 9, 282.	2.2	3
53	Tool deflection compensation by drive signal-based force reconstruction and process control. Procedia CIRP, 2021, 104, 571-575.	1.9	5
54	Artificial Wear for the Assessment of Monitoring Performance. Procedia CIRP, 2021, 104, 1023-1028.	1.9	0

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55	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
56	Electrical energy and material efficiency analysis of machining, additive and hybrid manufacturing. Journal of Cleaner Production, 2020, 251, 119731.	9.3	39
57	Simulation-based compensation of deflection errors in helical flute grinding. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 136-143.	4.5	7
58	Cooling of motor spindlesâ€"a review. International Journal of Advanced Manufacturing Technology, 2020, 110, 3273-3294.	3.0	23
59	Pulsed laser micro ablation of polycrystalline cubic boron nitride. Procedia CIRP, 2020, 94, 823-828.	1.9	1
60	Grinding of transformation-toughened mixed oxide ceramic. International Journal of Advanced Manufacturing Technology, 2020, 109, 1463-1478.	3.0	10
61	Wear curve based online feature assessment for tool condition monitoring. Procedia CIRP, 2020, 88, 312-317.	1.9	5
62	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
63	Feeling Machine for Process Monitoring of Turning Hybrid Solid Components. Metals, 2020, 10, 930.	2.3	5
64	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
65	Analysis of different machine learning algorithms to learn stability lobe diagrams. Procedia CIRP, 2020, 88, 282-287.	1.9	14
66	Environmental evaluation of process chains. Procedia CIRP, 2020, 88, 265-269.	1.9	3
67	Energy efficient machine tools. CIRP Annals - Manufacturing Technology, 2020, 69, 646-667.	3.6	64
68	Production-Related Surface and Subsurface Properties and Fatigue Life of Hybrid Roller Bearing Components. Metals, 2020, 10, 1339.	2.3	5
69	Production of chip breakers on cemented carbide tools using laser ablation. Procedia CIRP, 2020, 94, 834-839.	1.9	5
70	Influence of Cemented Carbide Composition on Cutting Temperatures and Corresponding Hot Hardnesses. Materials, 2020, 13, 4571.	2.9	10
71	Towards Dry Machining of Titanium-Based Alloys: A New Approach Using an Oxygen-Free Environment. Metals, 2020, 10, 1161.	2.3	18
72	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

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73	Function-optimised generation of an adapted target model for mechanical re-contouring of fan blades. Procedia CIRP, 2020, 93, 562-567.	1.9	2
74	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
75	Investigations on Tailored Forming of AISI 52100 as Rolling Bearing Raceway. Metals, 2020, 10, 1363.	2.3	11
76	Energy Efficient Process Chains for the Production of Powertrains. Procedia Manufacturing, 2020, 43, 48-55.	1.9	0
77	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
78	Continuous modelling of machine tool failure durations for improved production scheduling. Production Engineering, 2020, 14, 207-215.	2.3	7
79	Additive manufacturing of metal-bonded grinding tools. International Journal of Advanced Manufacturing Technology, 2020, 107, 2387-2395.	3.0	20
80	Statistical approaches for semi-supervised anomaly detection in machining. Production Engineering, 2020, 14, 385-393.	2.3	10
81	Influence of subsurface properties on the application behavior of hybrid components. Procedia CIRP, 2020, 87, 302-308.	1.9	3
82	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
83	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
84	Synergistic approaches to ultra-precision high performance cutting. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 38-51.	4.5	10
85	Prediction of part distortion in re-contouring processes. CIRP Journal of Manufacturing Science and Technology, 2020, 29, 25-35.	4.5	1
86	Optimization of delivery adherence based on capacity planning and bid pricing. Production Engineering, 2020, 14, 309-318.	2.3	0
87	Simulationsbasierte kombinierte Instandhaltungs- und Produktionsplanung. , 2020, , 261-273.		3
88	Simulation-based feed rate adaptation considering tool wear condition. Procedia Manufacturing, 2020, 52, 133-137.	1.9	2
89	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
90	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

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91	Material identification during turning by neural network. Journal of Machine Engineering, 2020, 20, 65-76.	1.8	7
92	Modelagem e anÃ¡lise numÃ©ricas da operaÃ§Ã£o de roleteamento do aÃ§o ABNT 4140. Revista Materia, 2020, 25, .	0.2	0
93	KI-gestÃ¼tzte ProzessÃ¼berwachung in der Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 295-298.	0.3	0
94	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
95	Deflection compensation on a force sensing mobile machine tool. Procedia Manufacturing, 2020, 52, 156-161.	1.9	0
96	Estudo sobre a integridade superficial do aÃ§o ABNT 4140 apÃ³s a operaÃ§Ã£o de torneamento. Revista Materia, 2020, 25, .	0.2	2
97	SpannkÃ¶pfe Ã¼berwachen sich selbst. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 74-76.	0.3	0
98	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
99	Wiederaufbereitung von Wendeschneidplatten aus Gestein. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 476-479.	0.3	0
100	Energieeffiziente Herstellung von Titanbauteilen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 617-620.	0.3	0
101	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
102	Wear mechanisms of CVD diamond tools for patterning vitrified corundum grinding wheels. Wear, 2019, 436-437, 203007.	3.1	3
103	Artificial intelligence for non-destructive testing of CFRP prepreg materials. Production Engineering, 2019, 13, 617-626.	2.3	29
104	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
105	Mathematical description of aesthetic criteria for process planning and quality control of luxury yachts. Procedia CIRP, 2019, 79, 478-483.	1.9	1
106	Compensation of part distortion in process design for re-contouring processes. Procedia CIRP, 2019, 81, 820-825.	1.9	1
107	Porous metal bonds increase the resource efficiency for profile grinding II. Procedia CIRP, 2019, 80, 114-119.	1.9	3
108	Approaches for an energy and resource efficient manufacturing in the aircraft industry. Procedia CIRP, 2019, 80, 180-185.	1.9	1

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109	Knowledge-based process planning for economical re-scheduling in production control. Procedia CIRP, 2019, 81, 980-985.	1.9	2
110	Improving technological machining simulation by tailored workpiece models and kinematics. Procedia CIRP, 2019, 82, 224-230.	1.9	13
111	Automated production data feedback for adaptive work planning and production control. Procedia Manufacturing, 2019, 28, 18-23.	1.9	15
112	Prediction of Ground Surfaces by Using the Actual Tool Topography. Journal of Manufacturing and Materials Processing, 2019, 3, 40.	2.2	3
113	Self-optimizing process planning for helical flute grinding. Production Engineering, 2019, 13, 599-606.	2.3	7
114	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
115	Surface Integrity of Laser Beam Welded Steelâ€“Aluminium Alloy Hybrid Shafts after Turning. Metals, 2019, 9, 134.	2.3	1
116	Model-based manufacturing and application of metal-bonded grinding wheels. CIRP Annals - Manufacturing Technology, 2019, 68, 321-324.	3.6	9
117	Deep learning-based classification of production defects in automated-fiber-placement processes. Production Engineering, 2019, 13, 501-509.	2.3	14
118	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
119	Methodology for integrative production planning in highly dynamic environments. Production Engineering, 2019, 13, 317-324.	2.3	13
120	Enhancement of roller bearing fatigue life by innovative production processes. Industrial Lubrication and Tribology, 2019, 71, 1003-1006.	1.3	6
121	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
122	Innovative method for cutting edge preparation with flexible diamond tools. Procedia CIRP, 2019, 86, 121-125.	1.9	4
123	QualitÃtssicherung mittels angereicherten Prozessinformationen. TM Technisches Messen, 2019, 86, 522-527.	0.7	3
124	Automatic re-contouring of repair-welded tool moulds. Procedia Manufacturing, 2019, 40, 45-50.	1.9	9
125	Towards an autonomous maintenance, repair and overhaul process. Procedia Manufacturing, 2019, 40, 77-82.	1.9	8
126	Analysis of potentials to improve the machining of hybrid workpieces. Production Engineering, 2019, 13, 11-19.	2.3	6

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127	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
128	Self-optimizing tool path generation for 5-axis machining processes. CIRP Journal of Manufacturing Science and Technology, 2019, 24, 49-54.	4.5	30
129	Material identification based on machine-learning algorithms for hybrid workpieces during cylindrical operations. Journal of Intelligent Manufacturing, 2019, 30, 2449-2456.	7.3	13
130	AUTONOMOUS MACHINING â€“ RECENT ADVANCES IN PROCESS PLANNING AND CONTROL. Journal of Machine Engineering, 2019, 19, 28-37.	1.8	5
131	ENERGY-BASED CHARACTERIZATION OF PRECISION HARD MACHINING USING PARTIALLY WORN CBN CUTTING TOOLS. Journal of Machine Engineering, 2019, 19, 55-62.	1.8	1
132	Drehwalzen: Zerspanprozess und OberflÃchenveredelung vereint. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2019, 114, 422-425.	0.3	0
133	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
134	BerÃ¼cksichtigung von OberflÃcheneigenschaften in der CAD/CAM-Kette. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2019, 114, 702-706.	0.3	0
135	A new process chain for recycling of cemented carbide milling tools. Production Engineering, 2018, 12, 547-553.	2.3	2
136	Process parallel simulation of workpiece temperatures using sensory workpieces. CIRP Journal of Manufacturing Science and Technology, 2018, 21, 140-149.	4.5	6
137	Production-based design of a hybrid load introduction element for thin-walled CFRP Structures. Production Engineering, 2018, 12, 113-120.	2.3	7
138	Automatic process parameter adaption for a hybrid workpiece during cylindrical operations. International Journal of Advanced Manufacturing Technology, 2018, 95, 311-316.	3.0	10
139	Automatic Regeneration of Cemented Carbide Tools for a Resource Efficient Tool Production. Procedia Manufacturing, 2018, 21, 259-265.	1.9	7
140	Dynamic Bid Pricing for an Optimized Resource Utilization in Small and Medium Sized Enterprises. Procedia CIRP, 2018, 67, 516-521.	1.9	8
141	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
142	Micro crack formation in hardmetal milling tools. International Journal of Refractory Metals and Hard Materials, 2018, 70, 210-214.	3.8	4
143	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
144	Increased performance in high speed turning of Inconel 718 by laser structuring of PcBN tools. Procedia CIRP, 2018, 77, 602-605.	1.9	13

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145	Technological CAD/CAM chain for automated polishing of geometrically complex workpieces. Procedia CIRP, 2018, 78, 313-317.	1.9	2
146	Process-parallel center deviation measurement of a BTA deep-hole drilling tool. Procedia Manufacturing, 2018, 24, 229-234.	1.9	9
147	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
148	Grinding of riblets with â€œbeaver toothâ€•multi-layer tools. Procedia CIRP, 2018, 71, 155-159.	1.9	8
149	Chip formation in machining metal bonded grinding layers. Procedia CIRP, 2018, 78, 55-60.	1.9	3
150	Residual stresses in grinding of forming tools with toric grinding pins. Procedia CIRP, 2018, 71, 354-357.	1.9	7
151	Energy-efficient control of dust extraction for the machining of fibre-reinforced plastics. Procedia CIRP, 2018, 78, 49-54.	1.9	2
152	Stator-Integrated Damping of Chatter Vibrations for Induction Motor Spindles. , 2018, , .		0
153	Technology-Based Recontouring of Blade Integrated Disks After Weld Repair. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	1
154	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
155	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
156	Frictionally damped tool holder for long projection cutting tools. Production Engineering, 2018, 12, 715-722.	2.3	6
157	Feeling machines for online detection and compensation of tool deflection in milling. CIRP Annals - Manufacturing Technology, 2018, 67, 423-426.	3.6	33
158	Porous Metal Bonds Increase the Resource Efficiency for Profile Grinding. Procedia CIRP, 2018, 69, 265-270.	1.9	5
159	Resource Efficient Regrinding of Cemented Carbide Milling Tools. Procedia CIRP, 2018, 69, 882-887.	1.9	4
160	Fixed abrasive machining of non-metallic materials. CIRP Annals - Manufacturing Technology, 2018, 67, 767-790.	3.6	30
161	Impact of hybrid workpieces on statistical process monitoring of machining operations. International Journal of Advanced Manufacturing Technology, 2018, 99, 765-771.	3.0	4
162	Highly Dynamic Spindle Integrated Magnet Actuators for Chatter Reduction. International Journal of Automation Technology, 2018, 12, 669-677.	1.0	4

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163	Elektromagnetische LinearfÃ¼hrung fÃ¼r die hochprÃzise Zerspanung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2018, 113, 443-447.	0.3	2
164	Virtuelle Prozesssimulation fÃ¼r FrÃsprozesse. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2018, 113, 804-808.	0.3	0
165	Estimation of Production Cost in an Early Design Stage of CFRP Lightweight Structures. Procedia CIRP, 2017, 62, 45-50.	1.9	4
166	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
167	Impact of Hard Machining on Zirconia Based Ceramics for Dental Applications. Procedia CIRP, 2017, 65, 248-252.	1.9	25
168	Combining in-house Pooling and Sequencing for Product Regeneration by Means of Event-driven Simulation. Procedia CIRP, 2017, 62, 153-158.	1.9	3
169	Competence-based Personnel Scheduling through Production Data. Procedia CIRP, 2017, 63, 265-270.	1.9	8
170	Machine Learning Approach for Optimization of Automated Fiber Placement Processes. Procedia CIRP, 2017, 66, 74-78.	1.9	41
171	Thermal Image-based Monitoring for the Automated Fiber Placement Process. Procedia CIRP, 2017, 62, 27-32.	1.9	27
172	Material Removal Mechanisms in Grinding of Mixed Oxide Ceramics. Procedia CIRP, 2017, 65, 70-77.	1.9	14
173	Performance of a piezo-hydraulic fine positioning device: Experimental analyses with a scaled model. Production Engineering, 2017, 11, 613-619.	2.3	1
174	Holistic process planning chain for robot machining. Production Engineering, 2017, 11, 715-722.	2.3	6
175	Tool Deflection Control by a Sensory Spindle Slide for Milling Machine Tools. Procedia CIRP, 2017, 62, 329-334.	1.9	21
176	Hybrid tool for high performance structuring and honing of cylinder liners. CIRP Annals - Manufacturing Technology, 2017, 66, 113-116.	3.6	13
177	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
178	Design of individual re-contouring processes. Procedia Manufacturing, 2017, 14, 76-88.	1.9	6
179	Design and optimization of a machining robot. Procedia Manufacturing, 2017, 14, 89-96.	1.9	33
180	Smart and energy-efficient dust suction concept for milling of fibre-reinforced plastics. Production Engineering, 2017, 11, 723-729.	2.3	4

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181	Kompetenzorientierte Arbeitsplatzwechsel. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2017, 112, 640-643.	0.3	1
182	Fluid Dynamic Drive Module for Planar Motion in Three Degrees of Freedom. Lecture Notes in Production Engineering, 2017, , 131-143.	0.4	0
183	Werkstoffspezifische Mikrogeometrie von FrÃswerkzeugen. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2017, 112, 481-484.	0.3	0
184	Augmenting Milling Process Data for Shape Error Prediction. Procedia CIRP, 2016, 57, 487-491.	1.9	15
185	Automated Fiber Placement Head for Manufacturing of Innovative Aerospace Stiffening Structures. Procedia Manufacturing, 2016, 6, 96-104.	1.9	62
186	Special issue on system-integrated intelligence. New challenges for product and production engineering. Mechatronics, 2016, 34, A1-A3.	3.3	0
187	Detection of tool deflection in milling by a sensory axis slide for machine tools. Mechatronics, 2016, 34, 95-99.	3.3	19
188	Thermographic online monitoring system for Automated Fiber Placement processes. Composites Part B: Engineering, 2016, 97, 239-243.	12.0	74
189	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
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