

# Jan C Aurich

## List of Publications by Year in descending order

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336  
papers

6,352  
citations

109264

35  
h-index

98753

67  
g-index

348  
all docs

348  
docs citations

348  
times ranked

3495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Life cycle oriented design of technical Product-Service Systems. Journal of Cleaner Production, 2006, 14, 1480-1494.	4.6	516
2	Ultra-precision grinding. CIRP Annals - Manufacturing Technology, 2010, 59, 652-671.	1.7	411
3	Advances in Modeling and Simulation of Grinding Processes. CIRP Annals - Manufacturing Technology, 2006, 55, 667-696.	1.7	367
4	Burr's Analysis, control and removal. CIRP Annals - Manufacturing Technology, 2009, 58, 519-542.	1.7	324
5	How to design and offer services successfully. CIRP Journal of Manufacturing Science and Technology, 2010, 2, 136-143.	2.3	177
6	High-performance dry grinding using a grinding wheel with a defined grain pattern. CIRP Annals - Manufacturing Technology, 2008, 57, 357-362.	1.7	128
7	An Approach to Life Cycle Oriented Technical Service Design. CIRP Annals - Manufacturing Technology, 2004, 53, 151-154.	1.7	116
8	Micro grinding tool for manufacture of complex structures in brittle materials. CIRP Annals - Manufacturing Technology, 2009, 58, 311-314.	1.7	116
9	Manufacture and application of ultra-small micro end mills. CIRP Annals - Manufacturing Technology, 2012, 61, 83-86.	1.7	102
10	Analysis of Control Architectures in the Context of Industry 4.0. Procedia CIRP, 2017, 62, 165-169.	1.0	94
11	Kinematic simulation of high-performance grinding for analysis of chip parameters of single grains. CIRP Journal of Manufacturing Science and Technology, 2012, 5, 164-174.	2.3	90
12	Development of a Superabrasive Grinding Wheel With Defined Grain Structure Using Kinematic Simulation. CIRP Annals - Manufacturing Technology, 2003, 52, 275-280.	1.7	89
13	Sustainability of abrasive processes. CIRP Annals - Manufacturing Technology, 2013, 62, 653-672.	1.7	86
14	Selective laser melting (SLM) of AISI 316L's impact of laser power, layer thickness, and hatch spacing on roughness, density, and microhardness at constant input energy density. International Journal of Advanced Manufacturing Technology, 2020, 108, 1551-1562.	1.5	82
15	Configuration of product's service systems. Journal of Manufacturing Technology Management, 2009, 20, 591-605.	3.3	81
16	Modelling and simulation of process: machine interaction in grinding. Production Engineering, 2009, 3, 111-120.	1.1	80
17	An Investigation of the Microstructure and Fatigue Behavior of Additively Manufactured AISI 316L Stainless Steel with Regard to the Influence of Heat Treatment. Metals, 2018, 8, 220.	1.0	79
18	Modeling and implementation of a digital twin of material flows based on physics simulation. Journal of Manufacturing Systems, 2021, 58, 231-245.	7.6	78

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19	3D Finite Element Modelling of Segmented Chip Formation. CIRP Annals - Manufacturing Technology, 2006, 55, 47-50.	1.7	65
20	Effect of cutting edge preparation of coated tools on their performance in milling various materials. CIRP Journal of Manufacturing Science and Technology, 2014, 7, 264-273.	2.3	65
21	How to integrate additive manufacturing technologies into manufacturing systems successfully: A perspective from the commercial vehicle industry. Journal of Manufacturing Systems, 2019, 53, 195-211.	7.6	62
22	Surface quality in micro milling: Influences of spindle and cutting parameters. CIRP Annals - Manufacturing Technology, 2017, 66, 101-104.	1.7	61
23	Sustainability in Ultra Precision and Micro Machining: A Review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 601-610.	2.7	61
24	Framework to Predict the Environmental Impact of Additive Manufacturing in the Life Cycle of a Commercial Vehicle. Procedia CIRP, 2015, 29, 408-413.	1.0	59
25	Continuous improvement of industrial product-service systems. CIRP Journal of Manufacturing Science and Technology, 2010, 3, 158-164.	2.3	55
26	Improved coolant supply through slotted grinding wheel. CIRP Annals - Manufacturing Technology, 2013, 62, 363-366.	1.7	52
27	Characterization of deformation induced surface hardening during cryogenic turning of AISI 347. CIRP Annals - Manufacturing Technology, 2014, 63, 65-68.	1.7	51
28	The preparation of cutting edges using a marking laser. Production Engineering, 2011, 5, 17-24.	1.1	47
29	Micro grinding with ultra small micro pencil grinding tools using an integrated machine tool. CIRP Annals - Manufacturing Technology, 2015, 64, 325-328.	1.7	47
30	Life Cycle Management of Industrial Product-Service Systems. , 2007, , 171-176.		44
31	Deformation Induced Surface Hardening when Turning Metastable Austenitic Steel AISI 347 with Different Cryogenic Cooling Strategies. Procedia CIRP, 2014, 14, 101-106.	1.0	41
32	Analytical and experimental investigations on the mechanisms of surface generation in micro grinding. International Journal of Machine Tools and Manufacture, 2020, 149, 103489.	6.2	41
33	Improvement of manufacturing processes with virtual reality-based CIP workshops. International Journal of Production Research, 2009, 47, 5297-5309.	4.9	40
34	Investigation of wear resistance of dry and cryogenic turned metastable austenitic steel shafts and dry turned and ground carburized steel shafts in the radial shaft seal ring system. Wear, 2015, 328-329, 123-131.	1.5	40
35	CFD based Investigation on Internal Cooling of Twist Drills. Procedia CIRP, 2014, 14, 293-298.	1.0	38
36	Implications of Cyber-Physical Production Systems on Integrated Process Planning and Scheduling. Procedia Manufacturing, 2019, 28, 167-173.	1.9	38

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37	Collaborative Factory Planning in Virtual Reality. Procedia CIRP, 2012, 3, 317-322.	1.0	37
38	Manufacturing system design with virtual factory tools. International Journal of Computer Integrated Manufacturing, 2015, 28, 25-40.	2.9	35
39	Influence of the Macro-topography of Grinding Wheels on the Cooling Efficiency and the Surface Integrity. Procedia CIRP, 2014, 13, 8-12.	1.0	31
40	CBN-GRINDING WHEEL WITH A DEFINED GRAIN PATTERN – EXTENSIVE NUMERICAL AND EXPERIMENTAL STUDIES. Machining Science and Technology, 2010, 14, 301-322.	1.4	30
41	Application of Ultra-Small Micro Grinding and Micro Milling Tools: Possibilities and Limitations. Micromachines, 2017, 8, 261.	1.4	30
42	Characterisation of Burr Formation in Grinding and Prospects for Modelling. CIRP Annals - Manufacturing Technology, 2005, 54, 313-316.	1.7	28
43	VirCA NET: A case study for collaboration in shared virtual space. , 2012, , .		28
44	Kinematics of a single abrasive particle during the industrial polishing process of porcelain stoneware tiles. Journal of the European Ceramic Society, 2007, 27, 3183-3190.	2.8	27
45	Abrasive processes for micro parts and structures. CIRP Annals - Manufacturing Technology, 2019, 68, 653-676.	1.7	27
46	Thermo-elastic deformations of the workpiece when dry turning aluminum alloys - A finite element model to predict thermal effects in the workpiece. CIRP Journal of Manufacturing Science and Technology, 2014, 7, 233-245.	2.3	26
47	Manufacturing of structured surfaces via grinding. Journal of Materials Processing Technology, 2017, 243, 170-183.	3.1	26
48	An Analytical Method for Prediction of Material Deformation Behavior in Grinding Using Single Grit Analogy. Procedia CIRP, 2017, 58, 263-268.	1.0	26
49	Produkt-Service Systeme. , 2010, , .		26
50	Effect of HM substrates' cutting edge roundness manufactured by laser machining and micro-blasting on the coated tools' cutting performance. CIRP Journal of Manufacturing Science and Technology, 2017, 18, 188-197.	2.3	25
51	Micromachining of PMMA' manufacturing of burr-free structures with single-edge ultra-small micro end mills. International Journal of Advanced Manufacturing Technology, 2018, 96, 3665-3677.	1.5	25
52	Effect of the cutting condition and the reinforcement phase on the thermal load of the workpiece when dry turning aluminum metal matrix composites. International Journal of Advanced Manufacturing Technology, 2016, 82, 1317-1334.	1.5	23
53	Model-based Design Process for the Early Phases of Manufacturing System Planning using SysML. Procedia CIRP, 2017, 60, 163-168.	1.0	23
54	Cutting edge preparation with elastic bonded superabrasive grinding wheels. CIRP Annals - Manufacturing Technology, 2016, 65, 329-332.	1.7	22

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55	A Novel Concept for the Development of Availability-Oriented Business Models. <i>Procedia CIRP</i> , 2017, 64, 340-344.	1.0	22
56	Deformation induced hardening when cryogenic turning,. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2018, 23, 6-19.	2.3	22
57	An eco-design for additive manufacturing framework based on energy performance assessment. <i>Additive Manufacturing</i> , 2020, 33, 101120.	1.7	22
58	Maturity model for determining digitalization levels within different product lifecycle phases. <i>Production Engineering</i> , 2021, 15, 431-450.	1.1	22
59	An implementation of a reinforcement learning based algorithm for factory layout planning. <i>Manufacturing Letters</i> , 2021, 30, 1-4.	1.1	22
60	Software Tool for Planning and Analyzing Engineering Changes in Manufacturing Systems. <i>Procedia CIRP</i> , 2013, 12, 348-353.	1.0	21
61	Comparison of the Embodied Energy of a Grinding Wheel and an End Mill. <i>Procedia CIRP</i> , 2014, 15, 74-79.	1.0	21
62	Sub-zero cooling: A novel strategy for high performance cutting. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 95-98.	1.7	21
63	Analysis of the machinability when milling AlSi10Mg additively manufactured via laser-based powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 989-1005.	1.5	21
64	Causal and temporal relationships within the combination of Lean Production Systems and Industry 4.0. <i>Procedia CIRP</i> , 2021, 96, 236-241.	1.0	21
65	Manufacturing of new roughness standards for the linearity of the vertical axis – Feasibility study and optimization. <i>Engineering Science and Technology, an International Journal</i> , 2016, 19, 1993-2001.	2.0	20
66	Prozessmodule zur Gestaltung flexibiltÄtsgerechter Produktionssysteme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2003, 98, 214-218.	0.2	20
67	Hydraulic design of a grinding wheel with an internal cooling lubricant supply. <i>Production Engineering</i> , 2011, 5, 119-126.	1.1	19
68	Effect of the Coating System on the Tool Performance When Turning Heat Treated Aisi 4140. <i>Procedia CIRP</i> , 2012, 1, 214-219.	1.0	19
69	Quality Assessment of Technical Product-service Systems in the Machine Tool Industry. <i>Procedia CIRP</i> , 2014, 16, 253-258.	1.0	19
70	A method for energy modeling and simulation implementation of machine tools of selective laser melting. <i>Journal of Cleaner Production</i> , 2020, 263, 121282.	4.6	19
71	The influence of the crystallographic orientation when micro machining commercially pure titanium: A size effect. <i>Precision Engineering</i> , 2021, 72, 158-171.	1.8	19
72	Influence of kinematics and abrasive configuration on the grinding process of glass. <i>Journal of Materials Processing Technology</i> , 2013, 213, 728-739.	3.1	18

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73	Innovative Services for Customized, Availability-oriented Business Models for the Capital Goods Industry. <i>Procedia CIRP</i> , 2016, 47, 501-506.	1.0	18
74	Influence of the laser parameters on the cutting edge preparation and the performance of cemented carbide indexable inserts. <i>Journal of Manufacturing Processes</i> , 2020, 58, 845-856.	2.8	18
75	User-Guided Visual Analysis of Cyber-Physical Production Systems. <i>Journal of Computing and Information Science in Engineering</i> , 2017, 17, .	1.7	17
76	Experimental investigations and kinematic simulation of single grit scratched surfaces considering pile-up behaviour: grinding perspective. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 471-485.	1.5	17
77	Technical Product-Service Systems: Analysis and reduction of the Cumulative Energy Demand. <i>Journal of Cleaner Production</i> , 2019, 206, 727-740.	4.6	17
78	Correlation between different cutting conditions, surface roughness and dimensional accuracy when ball end micro milling material measures with freeform surfaces. <i>Machining Science and Technology</i> , 2020, 24, 446-464.	1.4	17
79	Virtual Reality as a Collaboration Tool for Factory Planning based on Scenario Technique. <i>Procedia CIRP</i> , 2013, 7, 133-138.	1.0	16
80	How Services Influence the Energy Efficiency of Machine Tools: A Case Study of a Machine Tool Manufacturer. <i>Procedia CIRP</i> , 2015, 29, 287-292.	1.0	16
81	Analysis of Information Interdependencies Between Product Development and Manufacturing System Planning in Early Design Phases. <i>Procedia CIRP</i> , 2016, 50, 460-465.	1.0	16
82	Generation of deformation-induced martensite when cryogenic turning various batches of the metastable austenitic steel AISI 347. <i>Production Engineering</i> , 2019, 13, 343-350.	1.1	16
83	Improving the tribological properties of radial shaft seal countersurfaces using experimental micro peening and classical shot peening processes. <i>Tribology International</i> , 2021, 155, 106764.	3.0	16
84	PSS 4.0 – Einfluss von Industrie 4.0 auf Produkt-Service Systeme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016, 111, 565-568.	0.2	16
85	Engineering Change Impact Analysis in Production Using VR. , 2007, , 75-82.		15
86	Quantum Annealing based factory layout planning. <i>Manufacturing Letters</i> , 2022, 32, 59-62.	1.1	15
87	Single Grain Scratch Tests to Determine Elastic and Plastic Material Behavior in Grinding. <i>Advanced Materials Research</i> , 0, 325, 48-53.	0.3	14
88	Analysis of the machining accuracy when dry turning via experiments and finite element simulations. <i>Production Engineering</i> , 2014, 8, 41-50.	1.1	14
89	Design and Verification of Geometric Roughness Standards by Reverse Engineering. <i>Procedia CIRP</i> , 2016, 45, 259-262.	1.0	14
90	Development of Micro Pencil Grinding Tools Via an Electroless Plating Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2017, 5, .	0.8	14

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91	Analysing the Cumulative Energy Demand of Product-service Systems for wind Turbines. Procedia CIRP, 2017, 59, 214-219.	1.0	14
92	Optimizing Energy Consumption in a Decentralized Manufacturing System. Journal of Computing and Information Science in Engineering, 2017, 17, .	1.7	14
93	Influence of surface morphology on fatigue behavior of metastable austenitic stainless steel AISI 347 at ambient temperature and 300Å°C. Procedia Structural Integrity, 2017, 5, 989-996.	0.3	14
94	Experimental Analysis for the Use of Sodium Dodecyl Sulfate as a Soluble Metal Cutting Fluid for Micromachining with Electroless-Plated Micropencil Grinding Tools. Inventions, 2017, 2, 29.	1.3	14
95	Micro milling of additively manufactured AISI 316L: impact of the layerwise microstructure on the process results. International Journal of Advanced Manufacturing Technology, 2021, 112, 361-373.	1.5	14
96	Analytical Determination of the Distribution of Polishing Time over the Surface of Polished Tiles. Journal of the American Ceramic Society, 2007, 90, 3468-3477.	1.9	13
97	Noise investigation in manufacturing systems: An acoustic simulation and virtual reality enhanced method. CIRP Journal of Manufacturing Science and Technology, 2012, 5, 337-347.	2.3	13
98	Analysis of the Surface Integrity in Ultra-precision Cutting of Cp-titanium by Investigating the Chip Formation. Procedia CIRP, 2014, 13, 55-60.	1.0	13
99	An energy model of machine tools for selective laser melting. Procedia CIRP, 2018, 78, 67-72.	1.0	13
100	A Finite Element Approach to Calculate Temperatures Arising During Cryogenic Turning of Metastable Austenitic Steel AISI 347. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	13
101	A Use Case to Implement Machine Learning for Life Time Prediction of Manufacturing Tools. Procedia CIRP, 2020, 93, 1484-1489.	1.0	13
102	Impact of the thermomechanical load on subsurface phase transformations during cryogenic turning of metastable austenitic steels. Journal of Intelligent Manufacturing, 2021, 32, 877-894.	4.4	13
103	Process monitoring of economic and environmental performance of a material extrusion printer using an augmented reality-based digital twin. Additive Manufacturing, 2021, 48, 102388.	1.7	13
104	Quality oriented maintenance scheduling. CIRP Journal of Manufacturing Science and Technology, 2011, 4, 15-23.	2.3	12
105	Integrated Desktop Machine Tool for Manufacturing and Application of Ultra-small Micro Pencil Grinding Tools. Procedia CIRP, 2014, 14, 333-338.	1.0	12
106	Method for an Enhanced Assembly Planning Process with Systematic Virtual Reality Inclusion. Procedia CIRP, 2015, 37, 152-157.	1.0	12
107	Turning of aluminum metal matrix composites: influence of the reinforcement and the cutting condition on the surface layer of the workpiece. Advances in Manufacturing, 2016, 4, 225-236.	3.2	12
108	Support of Engineering Changes in Manufacturing Systems by Production Planning and Control Methods. Procedia CIRP, 2016, 41, 165-170.	1.0	12

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109	Energy simulation of the fused deposition modeling process using machine learning approach. <i>Procedia CIRP</i> , 2019, 86, 216-221.	1.0	12
110	Unification of lean production and Industry 4.0. <i>Procedia CIRP</i> , 2021, 99, 15-20.	1.0	12
111	Entwicklung cybertronischer Produktionssysteme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014, 109, 70-73.	0.2	12
112	Simulation based compensation techniques to minimize distortion of thin-walled monolithic aluminum parts due to residual stresses. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022, 38, 427-441.	2.3	12
113	Influence of the machining conditions when preparing cutting edges with elastic bonded grinding wheels. <i>Production Engineering</i> , 2015, 9, 329-336.	1.1	11
114	A Software Demonstrator for Measuring the Quality of PSS. <i>Procedia CIRP</i> , 2015, 30, 209-214.	1.0	11
115	Influence of Cutting Edge Geometry on Deformation Induced Hardening when Cryogenic Turning of Metastable Austenitic Stainless Steel AISI 347. <i>Procedia CIRP</i> , 2016, 45, 59-62.	1.0	11
116	Analyzing the influence of microstructured surfaces on the lactic acid production of <i>Lactobacillus delbrueckii lactis</i> in a flow-through cell system. <i>Engineering in Life Sciences</i> , 2017, 17, 865-873.	2.0	11
117	Numerical homogenization of elastic and thermal material properties for metal matrix composites (MMC). <i>Continuum Mechanics and Thermodynamics</i> , 2017, 29, 51-75.	1.4	11
118	Effects of Lubrication on Friction and Heat Transfer in Machining Processes on the Nanoscale: A Molecular Dynamics Approach. <i>Procedia CIRP</i> , 2018, 67, 296-301.	1.0	11
119	Functional investigation of zero lead radial shaft seal counter-surfaces turned with a special method. <i>Tribology International</i> , 2018, 118, 442-450.	3.0	11
120	Combination of cold drawing and cryogenic turning for modifying surface morphology of metastable austenitic AISI 347 steel. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 1188-1198.	1.4	11
121	Optimization of Micropencil Grinding Tools Via Electrical Discharge Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	1.3	11
122	Ball end micro milling of areal material measures: influence of the tilt angle on the resulting surface topography. <i>Production Engineering</i> , 2020, 14, 239-252.	1.1	11
123	Modeling and assessing the effects of digital technologies on KPIs in manufacturing systems. <i>Procedia CIRP</i> , 2020, 93, 682-687.	1.0	11
124	Edge-based Digital Twin to trace and ensure sustainability in cross-company production networks. <i>Procedia CIRP</i> , 2021, 98, 276-281.	1.0	11
125	Increasing the Resource Efficiency of Machine Tools by Life Cycle Oriented Services. <i>Procedia CIRP</i> , 2014, 15, 176-181.	1.0	10
126	Approach for Predicting Production Scenarios Focused on Cross Impact Analysis. <i>Procedia CIRP</i> , 2014, 17, 493-498.	1.0	10



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127	Influence of the Quality of Rivet Holes in Carbon-fiber-reinforced-polymer (CFRP) on the Connection Stability. <i>Procedia Manufacturing</i> , 2016, 6, 140-147.	1.9	10
128	A model-based approach for the calibration and traceability of the angle resolved scattering light sensor. <i>Surface Topography: Metrology and Properties</i> , 2016, 4, 024010.	0.9	10
129	Micro-milling of areal material measures " influences on the resulting surface topography. <i>Procedia CIRP</i> , 2018, 71, 122-127.	1.0	10
130	Approach for the observation of surface conditions in-process by soft sensors during cryogenic hard turning. <i>Procedia CIRP</i> , 2019, 81, 1260-1265.	1.0	10
131	A case study on the part optimization using eco-design for additive manufacturing based on energy performance assessment. <i>Procedia CIRP</i> , 2021, 96, 91-96.	1.0	10
132	Integrated Design of Industrial Product-Service Systems. , 2008, , 543-546.		10
133	Analysis of the grinding wheel wear and machining result during cutting edge preparation with elastic bonded grinding wheels. <i>Journal of Manufacturing Processes</i> , 2022, 75, 181-202.	2.8	10
134	Optimization of the Kinematics Available in the Polishing Process of Ceramic Tiles by Computational Simulations. <i>Journal of the American Ceramic Society</i> , 2009, 92, 41-48.	1.9	9
135	Modeling Deformations of the Workpiece and Removal of Material when Turning. <i>Procedia CIRP</i> , 2013, 8, 39-44.	1.0	9
136	Quality of Drilled and Milled Rivet Holes in Carbon Fiber Reinforced Plastics. <i>Procedia CIRP</i> , 2014, 24, 56-61.	1.0	9
137	Finite element computation of discrete configurational forces in crystal plasticity. <i>International Journal of Solids and Structures</i> , 2015, 56-57, 62-77.	1.3	9
138	Transient Finite Element Simulation of the Temperature Field during Cryogenic Turning of Metastable Austenitic Steel AISI 347. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 303-304.	0.2	9
139	Investigation of Chip Formation and Surface Integrity when Micro-cutting cp-Titanium with Ultra-fine Grain Cemented Carbide. <i>Procedia CIRP</i> , 2016, 45, 115-118.	1.0	9
140	Adhesion forces of the sea-water bacterium <i>Paracoccus seriniphilus</i> on titanium: Influence of microstructures and environmental conditions. <i>Biointerphases</i> , 2017, 12, 05G606.	0.6	9
141	Size limitations and wear behavior of TiB <sub>2</sub> coated micro end mills ( $\tilde{\sim}$ 50 $\mu$ m) when machining cp-titanium. <i>Procedia CIRP</i> , 2018, 71, 187-191.	1.0	9
142	Physical modeling of material flows in cyber-physical production systems. <i>Procedia Manufacturing</i> , 2019, 28, 10-17.	1.9	9
143	Formulation of sub-zero metalworking fluids for cutting processes: Influence of additives. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 31, 25-33.	2.3	9
144	Influence of different cooling strategies during hard turning of AISI 52100 - part I: thermo-mechanical load, tool wear, surface topography and manufacturing accuracy. <i>Procedia CIRP</i> , 2020, 87, 77-82.	1.0	9

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145	Influence of different cooling strategies during hard turning of AISI 52100 – part II: characterization of the surface and near surface microstructure morphology. Procedia CIRP, 2020, 87, 119-124.	1.0	9
146	Characterization of the subsurface properties of metastable austenitic stainless steel AISI 347 manufactured in a two-step turning process. Procedia CIRP, 2020, 87, 35-40.	1.0	9
147	Virtual Learning Factory on VR-Supported Factory Planning. Lecture Notes in Computer Science, 2014, , 455-462.	1.0	9
148	Scalability investigation of Double Deep Q Learning for factory layout planning. Procedia CIRP, 2022, 107, 161-166.	1.0	9
149	Production projects – designing and operating lifecycle-oriented and flexibility-optimized production systems as a project. International Journal of Production Research, 2004, 42, 3589-3601.	4.9	8
150	Finite Element Model to Calculate the Thermal Expansions of the Tool and the Workpiece in Dry Turning. Procedia CIRP, 2014, 14, 535-540.	1.0	8
151	Cleaning of titanium substrates after application in a bioreactor. Biointerphases, 2015, 10, 019007.	0.6	8
152	Approach for an Integrated Planning of Manufacturing Systems Based on Early Phases of Product Development. Procedia CIRP, 2016, 57, 467-472.	1.0	8
153	Event-driven Production Planning and Control Based on Individual Customer Orders. Procedia CIRP, 2016, 57, 434-438.	1.0	8
154	Improving the surface morphology of metastable austenitic steel AISI 347 in a two-step turning process. Procedia CIRP, 2018, 71, 160-165.	1.0	8
155	Coating of Ultra-Small Micro End Mills: Analysis of Performance and Suitability of Eight Different Hard-Coatings. Journal of Manufacturing and Materials Processing, 2018, 2, 22.	1.0	8
156	Characterization of micro grinding tools using optical profilometry. Optics and Lasers in Engineering, 2019, 121, 150-155.	2.0	8
157	Micro grinding 16MnCr5 hardened steel using micro pencil grinding tools with diameters $\hat{\sim}1/450 \hat{\sim}1/4m$ . CIRP Journal of Manufacturing Science and Technology, 2019, 27, 1-10.	2.3	8
158	Adsorption and reaction layers when turning AISI 304 using various cooling strategies. Procedia CIRP, 2020, 87, 125-130.	1.0	8
159	Evaluation of Abrasive Processes and Machines with Respect to Energy Efficiency. , 2012, , 329-333.		8
160	Life Cycle Oriented Quality Assessment of Technical Product-Service Systems. , 2012, , 49-54.		8
161	Surface layer hardening of metastable austenitic steel – Comparison of shot peening and cryogenic turning. Journal of Materials Research and Technology, 2020, 9, 16410-16422.	2.6	8
162	Interaction of process and machine during high-performance grinding: towards a comprehensive simulation concept. International Journal of Manufacturing Technology and Management, 2007, 12, 155.	0.1	7

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163	Driving forces on interfaces in elasticâ€plastic two phase materials. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2010, 90, 812-820.	0.9	7
164	Novel Materials for Biofilm Reactors and their Characterization. Advances in Biochemical Engineering/Biotechnology, 2013, 146, 207-233.	0.6	7
165	Investigation of Chip Formation and Workpiece Load When Machining Carbon-fiber-reinforced-polymer (CFRP). Procedia Manufacturing, 2016, 6, 124-131.	1.9	7
166	A thermo-viscoplastic constitutive law for isotropic hardening of metals. Archive of Applied Mechanics, 2017, 87, 129-157.	1.2	7
167	Tool-life criteria and wear behavior of single-edge ultra-small micro end mills. Precision Engineering, 2019, 55, 48-58.	1.8	7
168	Categorizing and selecting digitization technologies for their implementation within different product lifecycle phases. Procedia CIRP, 2019, 79, 274-279.	1.0	7
169	Validation of a physics engine for the simulation of material flows in cyber-physical production systems. Procedia CIRP, 2019, 81, 494-499.	1.0	7
170	Micro hardness determination on a rough surface by using combined indentation and topography measurements. Surface Topography: Metrology and Properties, 2019, 7, 045021.	0.9	7
171	Influence of the Chemical Composition of the Used Powder on the Fatigue Behavior of Additively Manufactured Materials. Metals, 2019, 9, 1285.	1.0	7
172	A study on impact factors of the energy consumption of the fused deposition modeling process using two-level full factorial experiments. Procedia CIRP, 2020, 93, 79-84.	1.0	7
173	Polishing performance of eco-friendly porcelain stoneware tiles reusing bricks and roof tiles wastes. Journal of Cleaner Production, 2020, 256, 120362.	4.6	7
174	Performance verification of areal surface texture measuring instruments with the Sk-parameters. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108550.	2.5	7
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