

Ekkard Brinksmeier

List of Publications by Year in descending order

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216
papers

7,810
citations

53660

45
h-index

56606

83
g-index

227
all docs

227
docs citations

227
times ranked

3466
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface integrity in material removal processes: Recent advances. CIRP Annals - Manufacturing Technology, 2011, 60, 603-626.	1.7	728
2	Ultra-precision grinding. CIRP Annals - Manufacturing Technology, 2010, 59, 652-671.	1.7	411
3	Residual Stresses – Measurement and Causes in Machining Processes. CIRP Annals - Manufacturing Technology, 1982, 31, 491-510.	1.7	390
4	Advances in Modeling and Simulation of Grinding Processes. CIRP Annals - Manufacturing Technology, 2006, 55, 667-696.	1.7	367
5	Metalworking fluids – Mechanisms and performance. CIRP Annals - Manufacturing Technology, 2015, 64, 605-628.	1.7	308
6	Friction, Cooling and Lubrication in Grinding. CIRP Annals - Manufacturing Technology, 1999, 48, 581-598.	1.7	275
7	Drilling of Multi-Layer Composite Materials consisting of Carbon Fiber Reinforced Plastics (CFRP), Titanium and Aluminum Alloys. CIRP Annals - Manufacturing Technology, 2002, 51, 87-90.	1.7	235
8	Capability Profile of Hard Cutting and Grinding Processes. CIRP Annals - Manufacturing Technology, 2005, 54, 22-45.	1.7	223
9	Drilling of composites and resulting surface integrity. CIRP Annals - Manufacturing Technology, 2011, 60, 57-60.	1.7	203
10	Utilization of Grinding Heat as a New Heat Treatment Process. CIRP Annals - Manufacturing Technology, 1996, 45, 283-286.	1.7	134
11	Grind-Hardening: A Comprehensive View. CIRP Annals - Manufacturing Technology, 1999, 48, 255-260.	1.7	134
12	Review on diamond-machining processes for the generation of functional surface structures. CIRP Journal of Manufacturing Science and Technology, 2012, 5, 1-7.	2.3	127
13	Process Signatures – A New Approach to Solve the Inverse Surface Integrity Problem in Machining Processes. Procedia CIRP, 2014, 13, 429-434.	1.0	119
14	Ultra-Precision Diamond Cutting of Steel Molds. CIRP Annals - Manufacturing Technology, 2006, 55, 551-554.	1.7	115
15	Progress in Assessing Surface and Subsurface Integrity. CIRP Annals - Manufacturing Technology, 1998, 47, 669-693.	1.7	107
16	Orbital drilling kinematics. Production Engineering, 2008, 2, 277-283.	1.1	101
17	Submicron functional surfaces generated by diamond machining. CIRP Annals - Manufacturing Technology, 2010, 59, 535-538.	1.7	100
18	Finishing of structured surfaces by abrasive polishing. Precision Engineering, 2006, 30, 325-336.	1.8	96

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19	Tool Wear Analyses in Low Frequency Vibration Assisted Drilling of CFRP/Ti6Al4V Stack Material. <i>Procedia CIRP</i> , 2014, 14, 142-147.	1.0	96
20	Influence of Milling Process Parameters on the Surface Integrity of CFRP. <i>Procedia CIRP</i> , 2012, 1, 466-470.	1.0	95
21	Process chains for high-precision components with micro-scale features. <i>CIRP Annals - Manufacturing Technology</i> , 2016, 65, 549-572.	1.7	88
22	High-Speed Grinding-Fundamentals and State of the Art in Europe, Japan, and the USA. <i>CIRP Annals - Manufacturing Technology</i> , 1997, 46, 715-724.	1.7	83
23	Process Signatures – an Alternative Approach to Predicting Functional Workpiece Properties. <i>Procedia Engineering</i> , 2011, 19, 44-52.	1.2	82
24	Surface integrity of selective-laser-melted components. <i>CIRP Annals - Manufacturing Technology</i> , 2010, 59, 601-606.	1.7	79
25	Manufacturing of advanced smart tooling for metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 605-628.	1.7	78
26	Micro-machining. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 3973-3992.	1.6	76
27	Tribological behavior of micro structured surfaces for micro forming tools. <i>International Journal of Machine Tools and Manufacture</i> , 2010, 50, 425-430.	6.2	75
28	Low Damage Drilling of CFRP/Titanium Compound Materials for Fastening. <i>Procedia CIRP</i> , 2014, 13, 1-7.	1.0	73
29	Manufacturing of multiscale structured surfaces. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 717-739.	1.7	73
30	Polishing of Structured Molds. <i>CIRP Annals - Manufacturing Technology</i> , 2004, 53, 247-250.	1.7	71
31	Advances in micro ultrasonic assisted lapping of microstructures in hard brittle materials: a brief review and outlook. <i>International Journal of Machine Tools and Manufacture</i> , 2005, 45, 881-890.	6.2	68
32	Microbial degradation of water miscible metal working fluids. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 1023-1029.	1.9	64
33	Advances in Precision Machining of Steel. <i>CIRP Annals - Manufacturing Technology</i> , 2001, 50, 385-388.	1.7	60
34	Modelling and optimization of grinding processes. <i>Journal of Intelligent Manufacturing</i> , 1998, 9, 303-314.	4.4	58
35	Cutting forces, tool wear and surface finish in high speed diamond machining. <i>Precision Engineering</i> , 2017, 49, 293-304.	1.8	58
36	High-Performance Surface Grinding – The Influence of Coolant on the Abrasive Process. <i>CIRP Annals - Manufacturing Technology</i> , 1993, 42, 367-370.	1.7	57

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37	Process Signatures - The Missing Link to Predict Surface Integrity in Machining. Procedia CIRP, 2018, 71, 3-10.	1.0	57
38	Diamond Micro Chiseling of large-scale retroreflective arrays. Precision Engineering, 2012, 36, 650-657.	1.8	55
39	Prediction of Tool Fracture in Drilling. CIRP Annals - Manufacturing Technology, 1990, 39, 97-100.	1.7	53
40	Prediction of shape deviations in machining. CIRP Annals - Manufacturing Technology, 2009, 58, 507-510.	1.7	51
41	Determination of the Mechanical and Thermal Influences on Machined Surfaces by Microhardness and Residual Stress Analysis. CIRP Annals - Manufacturing Technology, 1980, 29, 519-530.	1.7	49
42	Monitoring of Grinding Wheel Wear. CIRP Annals - Manufacturing Technology, 1992, 41, 373-376.	1.7	49
43	Cold surface hardening. CIRP Annals - Manufacturing Technology, 2008, 57, 541-544.	1.7	49
44	State-of-the-art of non-destructive measurement of sub-surface material properties and damages. Precision Engineering, 1989, 11, 211-224.	1.8	48
45	A discrete-event simulation approach to predict power consumption in machining processes. Production Engineering, 2011, 5, 575-579.	1.1	48
46	Macro and micro process modeling of the cutting of carbon fiber reinforced plastics using FEM. Procedia Engineering, 2011, 10, 1823-1828.	1.2	48
47	Chemical Aspects of Machining Processes. CIRP Annals - Manufacturing Technology, 2004, 53, 685-699.	1.7	47
48	Distortion minimization of disks for gear manufacture. International Journal of Machine Tools and Manufacture, 2011, 51, 331-338.	6.2	46
49	Measurement of subsurface damage in silicon wafers. Precision Engineering, 1994, 16, 139-144.	1.8	45
50	Determination of the Mechanical and Thermal Influences on Machined Surfaces by Microhardness and Residual Stress Analysis. CIRP Annals - Manufacturing Technology, 1980, 29, 519-530.	1.7	44
51	Characterization of Dressing Processes by Determination of the Collision Number of the Abrasive Grits. CIRP Annals - Manufacturing Technology, 1995, 44, 299-304.	1.7	44
52	Assessment of Grinding Fluid Effectiveness in Continuous-Dress Creep Feed Grinding. CIRP Annals - Manufacturing Technology, 2002, 51, 235-240.	1.7	42
53	Generation of discontinuous microstructures by Diamond Micro Chiseling. CIRP Annals - Manufacturing Technology, 2014, 63, 49-52.	1.7	42
54	Underlying Mechanisms for Developing Process Signatures in Manufacturing. Nanomanufacturing and Metrology, 2018, 1, 193-208.	1.5	39

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55	Surface hardening by strain induced martensitic transformation. <i>Production Engineering</i> , 2008, 2, 109-116.	1.1	38
56	On the mechanism of asymmetric ductile-brittle transition in microcutting of (111) CaF ₂ single crystals. <i>Scripta Materialia</i> , 2016, 114, 21-26.	2.6	38
57	Manufacturing of molds for replication of micro cube corner retroreflectors. <i>Production Engineering</i> , 2008, 2, 33-38.	1.1	37
58	Distortion Engineering – Identification of Causes for Dimensional and Form Deviations of Bearing Rings. <i>CIRP Annals - Manufacturing Technology</i> , 2007, 56, 109-112.	1.7	36
59	Micromachining of ceramic surfaces: Hydroxyapatite and zirconia. <i>Journal of Materials Processing Technology</i> , 2012, 212, 614-624.	3.1	36
60	Surface hardening by cryogenic deep rolling. <i>Procedia Engineering</i> , 2011, 19, 258-263.	1.2	35
61	On the Interactions of Additives in Metalworking Fluids with Metal Surfaces. <i>Lubricants</i> , 2013, 1, 75-94.	1.2	34
62	Experimental and numerical identification of process parameters of grind-hardening and resulting part distortions. <i>Production Engineering</i> , 2009, 3, 271-279.	1.1	30
63	Generation of Reaction Layers on Machined Surfaces. <i>CIRP Annals - Manufacturing Technology</i> , 2000, 49, 435-438.	1.7	29
64	Development and Application of a Wheel Based Process Monitoring System in Grinding. <i>CIRP Annals - Manufacturing Technology</i> , 2005, 54, 301-304.	1.7	29
65	Tool path generation for ultra-precision machining of free-form surfaces. <i>Production Engineering</i> , 2008, 2, 241-246.	1.1	29
66	Hard gear finishing viewed as a process of abrasive wear. <i>Wear</i> , 2005, 258, 62-69.	1.5	28
67	Experimental and Numerical Analysis of the Surface Integrity resulting from Outer-Diameter Grind-Hardening. <i>Procedia Engineering</i> , 2011, 19, 222-227.	1.2	28
68	Prediction of Shape Deviations in Face Milling of Steel. <i>Procedia CIRP</i> , 2013, 8, 15-20.	1.0	28
69	Nondestructive Testing for Evaluating Surface Integrity. <i>CIRP Annals - Manufacturing Technology</i> , 1984, 33, 489-509.	1.7	26
70	Current Approaches in Design and Supply of Metalworking Fluids. <i>Tribology Transactions</i> , 2009, 52, 591-601.	1.1	26
71	X-Ray Stress Measurement – a Tool for the Study and Layout of Machining Processes. <i>CIRP Annals - Manufacturing Technology</i> , 1985, 34, 485-490.	1.7	25
72	High Precision Diamond Machining of Hybrid Sol-Gel Coatings. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 35, 245-251.	1.1	25

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73	A Versatile Method to Determine Thermal Limits in Grinding. <i>Procedia CIRP</i> , 2014, 13, 131-136.	1.0	25
74	Quantitative analysis of chip extraction in drilling of Ti6Al4V. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 93-96.	1.7	25
75	Microbial-based metalworking fluids in milling operations. <i>CIRP Annals - Manufacturing Technology</i> , 2017, 66, 129-132.	1.7	23
76	Experimental and Numerical Analysis of Residual Stress Change Caused by Thermal Loads During Grinding. <i>Procedia CIRP</i> , 2016, 45, 51-54.	1.0	22
77	Diamond Cutting of FeN-Layers on Steel Substrates for Optical Mould Making. <i>Key Engineering Materials</i> , 0, 438, 31-34.	0.4	21
78	Randschicht-Wärmebehandlung durch Schleifen. <i>HTM - Journal of Heat Treatment and Materials</i> , 1994, 49, 327-330.	0.1	21
79	ID-Cut-off Grinding of Brittle Materials. <i>CIRP Annals - Manufacturing Technology</i> , 1987, 36, 219-222.	1.7	20
80	Potentials of precision machining processes for the manufacture of micro forming molds. <i>Microsystem Technologies</i> , 2008, 14, 1983-1987.	1.2	20
81	Machining of Precision Parts and Microstructures. , 2002, , 3-11.		19
82	Influence of turning parameters on distortion of bearing rings. <i>Production Engineering</i> , 2007, 1, 135-139.	1.1	19
83	Influence of Additives in Metalworking Fluids on the Wear Resistance of Steels. <i>Procedia CIRP</i> , 2014, 13, 108-113.	1.0	18
84	Surface layer modification charts for gear grinding. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 333-336.	1.7	18
85	Surface Integrity Demands of High Precision Optical Molds and Realization by a New Process Chain. <i>Procedia Engineering</i> , 2011, 19, 40-43.	1.2	17
86	Material Modifications Caused by Thermal and Mechanical Load During Grinding. <i>Procedia CIRP</i> , 2016, 45, 43-46.	1.0	17
87	A selftuning Adaptive Control System for Grinding processes. <i>CIRP Annals - Manufacturing Technology</i> , 1991, 40, 355-358.	1.7	16
88	Investigation of the diamond machinability of newly developed hard coatings. <i>Precision Engineering</i> , 2000, 24, 146-152.	1.8	16
89	Micro-USAL technique for the manufacture of high quality microstructures in brittle materials. <i>Precision Engineering</i> , 2006, 30, 362-372.	1.8	16
90	Superfinishing and grind-strengthening with elastic bonding system. <i>Journal of Materials Processing Technology</i> , 2009, 209, 6117-6123.	3.1	16

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91	A Simulation Based Development of Process Signatures for Manufacturing Processes with Thermal Loads. Procedia CIRP, 2016, 45, 327-330.	1.0	15
92	Grinding at very Low Speeds. CIRP Annals - Manufacturing Technology, 1997, 46, 223-226.	1.7	14
93	Einfluss von Maschinenstellgrößen auf die Eigenspannungszustände beim Drehen von Wälzlagering. HTM - Journal of Heat Treatment and Materials, 2004, 59, 169-175.	0.1	14
94	Effect of Machining Parameters and Clamping Technique on Residual Stresses and Distortion of Bearing Rings. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 45-51.	0.5	13
95	Diamond Machining of Steel Molds for Optical Applications. Key Engineering Materials, 0, 364-366, 701-706.	0.4	13
96	Application potential of coarse-grained diamond grinding wheels for precision grinding of optical materials. Production Engineering, 2016, 10, 563-573.	1.1	12
97	Adaptive Separation of Unbalance Vibration in Air Bearing Spindles. Procedia CIRP, 2017, 62, 357-362.	1.0	12
98	Surface characteristics of micro-ultrasonically machined (100) silicon. International Journal of Machine Tools and Manufacture, 2008, 48, 473-476.	6.2	11
99	Burr and Cap Formation by Orbital Drilling of Aluminum. , 2010, , 31-45.		11
100	Kinematics in ultra-precision grinding of WC moulds. International Journal of Nanomanufacturing, 2011, 7, 199.	0.3	11
101	Mechanisch induziertes Härten*. HTM - Journal of Heat Treatment and Materials, 2010, 65, 37-45.	0.1	11
102	EcoForge: Energieeffiziente Prozesskette zur Herstellung von Hochleistungs-Schmiedebauteilen*. HTM - Journal of Heat Treatment and Materials, 2014, 69, 209-219.	0.1	11
103	Ceramic Tools – Material Characteristics and Load Types Determine Wear Mechanisms. CIRP Annals - Manufacturing Technology, 1988, 37, 97-100.	1.7	10
104	Improving ecological aspects of the grinding process by effective waste management. Journal of Materials Processing Technology, 1994, 44, 171-178.	3.1	10
105	Artificial Intelligence for an Energy and Resource Efficient Manufacturing Chain Design and Operation. Procedia CIRP, 2015, 33, 139-144.	1.0	10
106	The influence of cell counts, cell size, EPS and microbial inclusions on the lubrication properties of microorganisms. Production Engineering, 2015, 9, 149-159.	1.1	10
107	Steel integrated thin film sensors for characterizing grinding processes. Sensors and Actuators A: Physical, 2016, 242, 203-209.	2.0	10
108	Synergistic approaches to ultra-precision high performance cutting. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 38-51.	2.3	10

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109	Residual Stresses in High Speed Turning of Thin-Walled Cylindrical Workpieces. International Journal of Automation Technology, 2011, 5, 313-319.	0.5	10
110	Size Effect in Micro Machining of Steel Depending on the Material State. Procedia CIRP, 2016, 46, 193-196.	1.0	9
111	Optimization of Computer Controlled X-Ray Stress Analysis. CIRP Annals - Manufacturing Technology, 1981, 30, 509-513.	1.7	8
112	Diamond milling of nitrided steels for optical mold making. Journal of Vacuum Science & Technology B, 2009, 27, 1238.	1.3	8
113	Improving the shape quality of bearing rings in soft turning by using a Fast Tool Servo. Production Engineering, 2009, 3, 469-474.	1.1	8
114	Wheel Based Temperature Measurement in Grinding. Advanced Materials Research, 2011, 325, 3-11.	0.3	8
115	GrindBall: an advanced micro-grinding tool. Production Engineering, 2013, 7, 469-476.	1.1	8
116	How to diamond turn an elliptic half-shell?. Precision Engineering, 2013, 37, 944-947.	1.8	8
117	Enhanced method for the evaluation of the thermal impact of dry machining processes. Production Engineering, 2014, 8, 291-300.	1.1	8
118	Influence of Different Machining Conditions on the Subsurface Properties of Drilled TiAl6V4. Procedia CIRP, 2016, 46, 472-475.	1.0	8
119	Diamond Machining of Holograms Using Fine Rectangular Shaped Cutting Tools. International Journal of Automation Technology, 2016, 10, 16-22.	0.5	8
120	Nondestructive characterization of the surface integrity of cold surface hardened components. Production Engineering, 2010, 4, 443-449.	1.1	7
121	Adapted Non-Circular Soft Turning of Bearing rings – Impact of Process Machine Interactions on Compensation Potential. Procedia CIRP, 2012, 1, 540-545.	1.0	7
122	Injection molded spherical grinding tools: manufacture and application of a novel tool concept for micro grinding. Production Engineering, 2013, 7, 383-389.	1.1	7
123	Robot-Assisted Vibration Polishing of NiCo Retroreflector Moulds. Advanced Materials Research, 2014, 1018, 175-181.	0.3	7
124	Vibration Assisted Drilling of Aerospace Materials. , 0, , .		7
125	Influence of Cutting Speed on Subsurface Damage Morphology and Distribution in Ground Fused Silica. Inventions, 2017, 2, 15.	1.3	7
126	Material Impact on Diamond Machining of Diffractive Optical Structures for UV-Application. Journal of Manufacturing and Materials Processing, 2018, 2, 15.	1.0	7

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127	Diamond Machinable Sol-Gel Silica Based Hybrid Coatings for High Precision Optical Molds. Key Engineering Materials, 2010, 438, 65-72.	0.4	6
128	Material aspects for the diamond machining of submicron optical structures for UV-application. International Journal of Nanomanufacturing, 2011, 7, 63.	0.3	6
129	EcoForge: Resource-Efficient Process Chains for High Performance Parts. Key Engineering Materials, 2012, 504-506, 151-156.	0.4	6
130	Compensation of part distortion in soft-turning of bearing rings. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 42-47.	0.5	6
131	Microorganisms as a Replacement for Metal Working Fluids. Advanced Materials Research, 0, 966-967, 357-364.	0.3	6
132	High performance cutting for ultra-precision machining. International Journal of Nanomanufacturing, 2015, 11, 245.	0.3	6
133	Experimental and Analytical Investigation of Workpiece Thermal Load During External Cylindrical Grinding. Procedia CIRP, 2015, 31, 465-470.	1.0	6
134	Microfluidic Balancing Concepts for Ultraprecision High Speed Applications. Procedia CIRP, 2016, 46, 185-188.	1.0	6
135	Modification of oscillation modes in low frequency vibration assisted drilling. Procedia Manufacturing, 2017, 14, 1-7.	1.9	6
136	Surface integrity in precision turning of steel. International Journal of Advanced Manufacturing Technology, 2018, 94, 763-771.	1.5	6
137	Manufacturing of optical molds using an integrated simulation and measurement interface. , 2004, 5252, 80.		5
138	Distortion engineering in turning processes with standard clamping systems. Materialwissenschaft Und Werkstofftechnik, 2009, 40, 385-389.	0.5	5
139	Influence of the turning process on the distortion of disks for gear manufacture. Production Engineering, 2011, 5, 613-620.	1.1	5
140	A New Approach for the Prediction of Surface and Subsurface Properties after Grinding. Advanced Materials Research, 0, 1018, 189-196.	0.3	5
141	Performance evaluation of metalworking fluids based on microorganisms. Production Engineering, 2017, 11, 41-49.	1.1	5
142	Sub-surface deformation in vibration cutting of copper. Precision Engineering, 2001, 25, 218-223.	1.8	4
143	Using the size effect of specific energy in grinding for work hardening. International Journal of Manufacturing Technology and Management, 2007, 12, 259.	0.1	4
144	Influence of characteristic material properties on machinability under high speed cutting. International Journal of Machining and Machinability of Materials, 2008, 4, 419.	0.1	4

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145	Monitoring of Machining Processes Using Sensor Equipped Tools. Advanced Engineering Materials, 2010, 12, 641-645.	1.6	4
146	Precision Mould Making " From Macro to Micro. Key Engineering Materials, 2010, 447-448, 1-8.	0.4	4
147	Erweiterte Theorie zum Orbitalbohren (helikales BohrfrÄsen). Materialwissenschaft Und Werkstofftechnik, 2011, 42, 506-518.	0.5	4
148	INFLUENCE OF CLAMPING STRATEGIES ON ROUNDNESS DEVIATIONS OF TURNED RINGS. Machining Science and Technology, 2011, 15, 338-355.	1.4	4
149	Correlations between Thermal Loads during Grind-Hardening and Material Modifications Using the Concept of Process Signatures. Journal of Manufacturing and Materials Processing, 2018, 2, 20.	1.0	4
150	Alterung wassergemischter KÄ¼hlschmierstoffe. HTM - Journal of Heat Treatment and Materials, 2016, 71, 131-137.	0.1	4
151	Consideration of Core Segregations on the Formability of Bearing Steel. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 40-44.	0.5	3
152	Material removal mechanisms in abrasive vibration polishing of complex molds. , 2010, , .		3
153	Analysing Internal Material Loads in Manufacturing Processes. Advanced Materials Research, 0, 1018, 83-90.	0.3	3
154	Machinability of Carbon-Fiber-Reinforced and GLARE Materials. , 2014, , 782-787.		3
155	Control of a Thermal Actuator for UP-milling with Multiple Cutting Edges. Procedia CIRP, 2016, 46, 424-427.	1.0	3
156	Merging Technologies for Optics. , 2007, , 1-9.		3
157	Kryogenes Festwalzen metastabiler Austenite. HTM - Journal of Heat Treatment and Materials, 2010, 65, 313-320.	0.1	3
158	Analyse eines durch das Co-Spray-Verfahren hergestellten Werkzeuges zur Warmumformung. HTM - Journal of Heat Treatment and Materials, 2014, 69, 235-240.	0.1	3
159	Tribology of Micro Milled Surfaces. Key Engineering Materials, 2010, 447-448, 681-684.	0.4	2
160	Chip Formation in Ultra-Precision Machining of Nitrocarburized Steels. Key Engineering Materials, 2012, 516, 293-298.	0.4	2
161	Manufacture and application performance of precision grinding wheels with CVD coated abrasive layers. International Journal of Abrasive Technology, 2012, 5, 299.	0.2	2
162	New Tool Concepts for Ultra-Precision Grinding. Key Engineering Materials, 2012, 516, 287-292.	0.4	2

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163	Numerical distortion simulation of roller bearing rings. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 158-162.	0.5	2
164	Microstructuring of Surfaces for Bio-Medical Applications. Advanced Materials Research, 0, 907, 213-224.	0.3	2
165	Force Controlled Grinding of Ceramic Materials. Applied Mechanics and Materials, 0, 794, 270-277.	0.2	2
166	Automated microfluidic balancing system for high speed air-bearing spindles. Procedia CIRP, 2018, 77, 263-266.	1.0	2
167	Vergleich tribologischer Laboranalysen mit praktischen Ergebnissen aus Umform- und Zerspanprozessen am Beispiel von schwefelhaltigen KÄ¼hlschmierstoffen. HTM - Journal of Heat Treatment and Materials, 2016, 71, 154-162.	0.1	2
168	Die Wirkmechanismen mikrobiell basierter KÄ¼hlschmierstoffe. HTM - Journal of Heat Treatment and Materials, 2017, 72, 293-299.	0.1	2
169	Herstellung dreidimensionaler mikrooptischer FunktionsflÄchen. HTM - Journal of Heat Treatment and Materials, 2005, 60, 33-39.	0.1	2
170	Verzugskompensation in der Zerspanung unter Verwendung einer dynamischen Werkzeugzustellung. HTM - Journal of Heat Treatment and Materials, 2009, 64, 159-165.	0.1	2
171	Deterministic Polishing of Smooth and Structured Molds. Lecture Notes in Production Engineering, 2013, , 99-117.	0.3	2
172	Investigation of Nonlinear Dynamic Effects in Loaded Layer-Substrate Systems through Molecular Dynamics Simulation. , 2005, , 251-263.		1
173	ELID Assisted Precision Conditioning of Coarse-Grained Diamond Grinding Wheel. Key Engineering Materials, 2007, 364-366, 578-583.	0.4	1
174	Ultraprecision machining of nitrocarburized steels. Proceedings of SPIE, 2010, , .	0.8	1
175	Ultra Precision Machining of Non-Ferrous Metals and Nitrocarburized Tool Steel. Key Engineering Materials, 2010, 447-448, 46-50.	0.4	1
176	Experimental and Numerical Analysis on the Distortion of Parts Made of 20MnCr5 by Hot Metal Forming. , 2011, , .		1
177	Mathematical methods for optimising high precision cutting operations. International Journal of Nanomanufacturing, 2012, 8, 306.	0.3	1
178	Advanced Machining Processes for Micro Mold Fabrication. Key Engineering Materials, 2012, 523-524, 1018-1023.	0.4	1
179	Modeling and Simulation of the Machining of Unidirectional CFRP. Advanced Materials Research, 0, 907, 55-62.	0.3	1
180	Multiple plane holographic projection using diamond turned holograms. , 2018, , .		1

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181	Wie viel Schmierstoff ist nötig? – Effizienter Einsatz von Kühlschmierstoffen. , 2008, , 110-118.		1
182	Perspektiven der Heißzerspannung aus der Schmiedewärme. HTM - Journal of Heat Treatment and Materials, 2013, 68, 103-109.	0.1	1
183	Ultraprecision Ductile Grinding of Optical Glass Using Super Abrasive Diamond Wheel. Key Engineering Materials, 0, , 382-388.	0.4	1
184	Potenzial des Festwalzens zur Reduzierung fertigungsinduzierter Verzerrungen. HTM - Journal of Heat Treatment and Materials, 2010, 65, 101-109.	0.1	1
185	Tool Making. Lecture Notes in Production Engineering, 2013, , 201-310.	0.3	1
186	Hochdruck-Wasserstrahlen - ein neues Verfahren zur mechanischen Randzonenverfestigung. HTM - Journal of Heat Treatment and Materials, 1990, 45, 300-306.	0.1	1
187	Einfluss der Abrichtbedingungen beim Aufrundschleifen auf die tribologischen Eigenschaften von Getriebesynchronisationen. HTM - Journal of Heat Treatment and Materials, 2017, 72, 232-239.	0.1	1
188	Micro Chiseling of Retroreflective Arrays. Micro/Nano Technologies, 2018, , 1-29.	0.1	1
189	Ultraprecision Machining. , 2018, , 1-5.		1
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