

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	Manufacturing of multiscale structured surfaces. CIRP Annals - Manufacturing Technology, 2020, 69, 717-739.	1.7	73
2	Synergistic approaches to ultra-precision high performance cutting. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 38-51.	2.3	10
3	Tooling. Lecture Notes in Production Engineering, 2020, , 133-251.	0.3	0
4	Manufacturing of advanced smart tooling for metal forming. CIRP Annals - Manufacturing Technology, 2019, 68, 605-628.	1.7	78
5	Ultraprecision Machining. , 2019, , 1785-1789.		0
6	Machinability of Carbon-Fiber-Reinforced and GLARE Materials. , 2019, , 1082-1088.		0
7	Diamond Machining. , 2019, , 498-502.		0
8	Ultraprecision Grinding. , 2019, , 1781-1785.		0
9	Grinding Fluids. , 2019, , 806-809.		0
10	Analysis of the Chemical and Tribological Properties of Phosphate Glass Layers Developing during Metalworking Processes on Manual Transmission Synchronizers*. HTM - Journal of Heat Treatment and Materials, 2019, 74, 50-65.	0.1	0
11	Micro Chiseling of Retroreflective Arrays. Micro/Nano Technologies, 2018, , 1-29.	0.1	0
12	Surface layer modification charts for gear grinding. CIRP Annals - Manufacturing Technology, 2018, 67, 333-336.	1.7	18
13	Surface integrity in precision turning of steel. International Journal of Advanced Manufacturing Technology, 2018, 94, 763-771.	1.5	6
14	Multiple plane holographic projection using diamond turned holograms. , 2018, , .		1
15	Automated microfluidic balancing system for high speed air-bearing spindles. Procedia CIRP, 2018, 77, 263-266.	1.0	2
16	Process Signatures - The Missing Link to Predict Surface Integrity in Machining. Procedia CIRP, 2018, 71, 3-10.	1.0	57
17	Underlying Mechanisms for Developing Process Signatures in Manufacturing. Nanomanufacturing and Metrology, 2018, 1, 193-208.	1.5	39
18	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

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19	Material Impact on Diamond Machining of Diffractive Optical Structures for UV-Application. Journal of Manufacturing and Materials Processing, 2018, 2, 15.	1.0	7
20	Machinability of Carbon-Fiber-Reinforced and GLARE Materials. , 2018, , 1-8.		0
21	Micro Chiseling of Retroreflective Arrays. Micro/Nano Technologies, 2018, , 1-29.	0.1	1
22	Micro Chiseling of Retroreflective Arrays. Micro/Nano Technologies, 2018, , 3-31.	0.1	0
23	Ultraprecision Machining. , 2018, , 1-5.		1
24	Performance evaluation of metalworking fluids based on microorganisms. Production Engineering, 2017, 11, 41-49.	1.1	5
25	Microbial-based metalworking fluids in milling operations. CIRP Annals - Manufacturing Technology, 2017, 66, 129-132.	1.7	23
26	Adaptive Separation of Unbalance Vibration in Air Bearing Spindles. Procedia CIRP, 2017, 62, 357-362.	1.0	12
27	Cutting forces, tool wear and surface finish in high speed diamond machining. Precision Engineering, 2017, 49, 293-304.	1.8	58
28	Modification of oscillation modes in low frequency vibration assisted drilling. Procedia Manufacturing, 2017, 14, 1-7.	1.9	6
29	Dynamic modelling and vibration simulation of air bearing spindle systems due to unbalance. International Journal of Mechatronics and Manufacturing Systems, 2017, 10, 260.	0.1	0
30	Influence of Cutting Speed on Subsurface Damage Morphology and Distribution in Ground Fused Silica. Inventions, 2017, 2, 15.	1.3	7
31	Improving the Tribological Properties of Gear Synchronizations by Adjusting the Metalworking Fluid Composition of the Grinding Process. Journal of Manufacturing and Materials Processing, 2017, 1, 4.	1.0	0
32	Die Wirkmechanismen mikrobiell basierter KÄ¼hlschmierstoffe. HTM - Journal of Heat Treatment and Materials, 2017, 72, 293-299.	0.1	2
33	Ultraprecision Grinding. , 2017, , 1-5.		0
34	Einfluss der Abrichtbedingungen beim AuÄerundschleifen auf die tribologischen Eigenschaften von Getriebesynchronisationen. HTM - Journal of Heat Treatment and Materials, 2017, 72, 232-239.	0.1	1
35	Material Modifications Caused by Thermal and Mechanical Load During Grinding. Procedia CIRP, 2016, 45, 43-46.	1.0	17
36	Control of a Thermal Actuator for UP-milling with Multiple Cutting Edges. Procedia CIRP, 2016, 46, 424-427.	1.0	3

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37	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
38	Size Effect in Micro Machining of Steel Depending on the Material State. <i>Procedia CIRP</i> , 2016, 46, 193-196.	1.0	9
39	Application potential of coarse-grained diamond grinding wheels for precision grinding of optical materials. <i>Production Engineering</i> , 2016, 10, 563-573.	1.1	12
40	Influence of Different Machining Conditions on the Subsurface Properties of Drilled TiAl6V4. <i>Procedia CIRP</i> , 2016, 46, 472-475.	1.0	8
41	A Simulation Based Development of Process Signatures for Manufacturing Processes with Thermal Loads. <i>Procedia CIRP</i> , 2016, 45, 327-330.	1.0	15
42	Process chains for high-precision components with micro-scale features. <i>CIRP Annals - Manufacturing Technology</i> , 2016, 65, 549-572.	1.7	88
43	Microfluidic Balancing Concepts for Ultraprecision High Speed Applications. <i>Procedia CIRP</i> , 2016, 46, 185-188.	1.0	6
44	Steel integrated thin film sensors for characterizing grinding processes. <i>Sensors and Actuators A: Physical</i> , 2016, 242, 203-209.	2.0	10
45	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
46	Diamond Machining of Holograms Using Fine Rectangular Shaped Cutting Tools. <i>International Journal of Automation Technology</i> , 2016, 10, 16-22.	0.5	8
47	Alterung wassergemischter $\frac{1}{4}$ hlschmierstoffe. <i>HTM - Journal of Heat Treatment and Materials</i> , 2016, 71, 131-137.	0.1	4
48	Vergleich tribologischer Laboranalysen mit praktischen Ergebnissen aus Umform- und Zerspanprozessen am Beispiel von schwefelhaltigen $\frac{1}{4}$ hlschmierstoffen. <i>HTM - Journal of Heat Treatment and Materials</i> , 2016, 71, 154-162.	0.1	2
49	Grinding Fluids. , 2016, , 1-4.		0
50	Artificial Intelligence for an Energy and Resource Efficient Manufacturing Chain Design and Operation. <i>Procedia CIRP</i> , 2015, 33, 139-144.	1.0	10
51	The Lubrication Properties of Microbial Cells and their Biopolymers. <i>Applied Mechanics and Materials</i> , 2015, 794, 285-291.	0.2	0
52	High performance cutting for ultra-precision machining. <i>International Journal of Nanomanufacturing</i> , 2015, 11, 245.	0.3	6
53	The influence of cell counts, cell size, EPS and microbial inclusions on the lubrication properties of microorganisms. <i>Production Engineering</i> , 2015, 9, 149-159.	1.1	10
54	Experimental and Analytical Investigation of Workpiece Thermal Load During External Cylindrical Grinding. <i>Procedia CIRP</i> , 2015, 31, 465-470.	1.0	6

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55	Quantitative analysis of chip extraction in drilling of Ti6Al4V. CIRP Annals - Manufacturing Technology, 2015, 64, 93-96.	1.7	25
56	Metalworking fluidsâ€™ Mechanisms and performance. CIRP Annals - Manufacturing Technology, 2015, 64, 605-628.	1.7	308
57	Energieeffizienzanalyse und Ressourcenoptimierung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2015, 110, 620-624.	0.2	0
58	Robot-Assisted Vibration Polishing of NiCo Retroreflector Moulds. Advanced Materials Research, 2014, 1018, 175-181.	0.3	7
59	Machinability of Carbon-Fiber-Reinforced and GLARE Materials. , 2014, , 782-787.		3
60	Generation of discontinuous microstructures by Diamond Micro Chiseling. CIRP Annals - Manufacturing Technology, 2014, 63, 49-52.	1.7	42
61	Enhanced method for the evaluation of the thermal impact of dry machining processes. Production Engineering, 2014, 8, 291-300.	1.1	8
62	Process Signatures â€™ A New Approach to Solve the Inverse Surface Integrity Problem in Machining Processes. Procedia CIRP, 2014, 13, 429-434.	1.0	119
63	Tool Wear Analyses in Low Frequency Vibration Assisted Drilling of CFRP/Ti6Al4V Stack Material. Procedia CIRP, 2014, 14, 142-147.	1.0	96
64	Influence of Additives in Metalworking Fluids on the Wear Resistance of Steels. Procedia CIRP, 2014, 13, 108-113.	1.0	18
65	A Versatile Method to Determine Thermal Limits in Grinding. Procedia CIRP, 2014, 13, 131-136.	1.0	25
66	Low Damage Drilling of CFRP/Titanium Compound Materials for Fastening. Procedia CIRP, 2014, 13, 1-7.	1.0	73
67	EcoForge: Energieeffiziente Prozesskette zur Herstellung von Hochleistungs-Schmiedebauteilen*. HTM - Journal of Heat Treatment and Materials, 2014, 69, 209-219.	0.1	11
68	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
69	Grinding Fluids. , 2014, , 589-592.		0
70	Ultraviolet lithography on sloped surfaces utilizing diamond turned holograms. Production Engineering, 2013, 7, 619-627.	1.1	0
71	GrindBall: an advanced micro-grinding tool. Production Engineering, 2013, 7, 469-476.	1.1	8
72	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

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73	How to diamond turn an elliptic half-shell?. Precision Engineering, 2013, 37, 944-947.	1.8	8
74	Prediction of Shape Deviations in Face Milling of Steel. Procedia CIRP, 2013, 8, 15-20.	1.0	28
75	Diamond Machinable Tool Steels by Novel Nitriding Processes. Lecture Notes in Production Engineering, 2013, , 67-83.	0.3	0
76	On the Interactions of Additives in Metalworking Fluids with Metal Surfaces. Lubricants, 2013, 1, 75-94.	1.2	34
77	Perspektiven der HeiÃzerspannung aus der SchmiedewÃrme. HTM - Journal of Heat Treatment and Materials, 2013, 68, 103-109.	0.1	1
78	Diamond Machining of Nitrocarburized Steel Molds for the Mass Production of Optical Components. , 2013, , 191-199.		0
79	Deterministic Polishing of Smooth and Structured Molds. Lecture Notes in Production Engineering, 2013, , 99-117.	0.3	2
80	Tool Making. Lecture Notes in Production Engineering, 2013, , 201-310.	0.3	1
81	EcoForge: Resource-Efficient Process Chains for High Performance Parts. Key Engineering Materials, 2012, 504-506, 151-156.	0.4	6
82	Chip Formation in Ultra-Precision Machining of Nitrocarburized Steels. Key Engineering Materials, 2012, 516, 293-298.	0.4	2
83	Manufacture and application performance of precision grinding wheels with CVD coated abrasive layers. International Journal of Abrasive Technology, 2012, 5, 299.	0.2	2
84	Mathematical methods for optimising high precision cutting operations. International Journal of Nanomanufacturing, 2012, 8, 306.	0.3	1
85	Micro-machining. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3973-3992.	1.6	76
86	Advanced Machining Processes for Micro Mold Fabrication. Key Engineering Materials, 2012, 523-524, 1018-1023.	0.4	1
87	Influence of Milling Process Parameters on the Surface Integrity of CFRP. Procedia CIRP, 2012, 1, 466-470.	1.0	95
88	Adapted Non-Circular Soft Turning of Bearing ringsâImpact of Process Machine Interactions on Compensation Potential. Procedia CIRP, 2012, 1, 540-545.	1.0	7
89	Diamond Micro Chiseling of large-scale retroreflective arrays. Precision Engineering, 2012, 36, 650-657.	1.8	55
90	New Tool Concepts for Ultra-Precision Grinding. Key Engineering Materials, 2012, 516, 287-292.	0.4	2

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91	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
92	Micromachining of ceramic surfaces: Hydroxyapatite and zirconia. Journal of Materials Processing Technology, 2012, 212, 614-624.	3.1	36
93	Compensation of part distortion in soft-turning of bearing rings. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 42-47.	0.5	6
94	Numerical distortion simulation of roller bearing rings. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 158-162.	0.5	2
95	Wheel Based Temperature Measurement in Grinding. Advanced Materials Research, 2011, 325, 3-11.	0.3	8
96	Surface Integrity Demands of High Precision Optical Molds and Realization by a New Process Chain. Procedia Engineering, 2011, 19, 40-43.	1.2	17
97	Process Signatures – an Alternative Approach to Predicting Functional Workpiece Properties. Procedia Engineering, 2011, 19, 44-52.	1.2	82
98	Experimental and Numerical Analysis of the Surface Integrity resulting from Outer-Diameter Grind-Hardening. Procedia Engineering, 2011, 19, 222-227.	1.2	28
99	Surface hardening by cryogenic deep rolling. Procedia Engineering, 2011, 19, 258-263.	1.2	35
100	Surface integrity in material removal processes: Recent advances. CIRP Annals - Manufacturing Technology, 2011, 60, 603-626.	1.7	728
101	A discrete-event simulation approach to predict power consumption in machining processes. Production Engineering, 2011, 5, 575-579.	1.1	48
102	Influence of the turning process on the distortion of disks for gear manufacture. Production Engineering, 2011, 5, 613-620.	1.1	5
103	Erweiterte Theorie zum Orbitalbohren (helikales Bohren). Materialwissenschaft Und Werkstofftechnik, 2011, 42, 506-518.	0.5	4
104	Drilling of composites and resulting surface integrity. CIRP Annals - Manufacturing Technology, 2011, 60, 57-60.	1.7	203
105	Distortion minimization of disks for gear manufacture. International Journal of Machine Tools and Manufacture, 2011, 51, 331-338.	6.2	46
106	Macro and micro process modeling of the cutting of carbon fiber reinforced plastics using FEM. Procedia Engineering, 2011, 10, 1823-1828.	1.2	48
107	Experimental and Numerical Analysis on the Distortion of Parts Made of 20MnCr5 by Hot Metal Forming. , 2011, , .		1
108	Material aspects for the diamond machining of submicron optical structures for UV-application. International Journal of Nanomanufacturing, 2011, 7, 63.	0.3	6

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109	Kinematics in ultra-precision grinding of WC moulds. International Journal of Nanomanufacturing, 2011, 7, 199.	0.3	11
110	INFLUENCE OF CLAMPING STRATEGIES ON ROUNDNESS DEVIATIONS OF TURNED RINGS. Machining Science and Technology, 2011, 15, 338-355.	1.4	4
111	Residual Stresses in High Speed Turning of Thin-Walled Cylindrical Workpieces. International Journal of Automation Technology, 2011, 5, 313-319.	0.5	10
112	Zahnradverzug durch Eigenspannungen aus dem WÄlzfrÄsprozess. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2011, 106, 515-521.	0.2	0
113	Material removal mechanisms in abrasive vibration polishing of complex molds. , 2010, , .		3
114	Ultraprecision machining of nitrocarburized steels. Proceedings of SPIE, 2010, , .	0.8	1
115	Tribological behavior of micro structured surfaces for micro forming tools. International Journal of Machine Tools and Manufacture, 2010, 50, 425-430.	6.2	75
116	Submicron functional surfaces generated by diamond machining. CIRP Annals - Manufacturing Technology, 2010, 59, 535-538.	1.7	100
117	Nondestructive characterization of the surface integrity of cold surface hardened components. Production Engineering, 2010, 4, 443-449.	1.1	7
118	Monitoring of Machining Processes Using Sensor Equipped Tools. Advanced Engineering Materials, 2010, 12, 641-645.	1.6	4
119	Surface integrity of selective-laser-melted components. CIRP Annals - Manufacturing Technology, 2010, 59, 601-606.	1.7	79
120	Ultra-precision grinding. CIRP Annals - Manufacturing Technology, 2010, 59, 652-671.	1.7	411
121	Tribology of Micro Milled Surfaces. Key Engineering Materials, 2010, 447-448, 681-684.	0.4	2
122	Precision Mould Making â€œ From Macro to Micro. Key Engineering Materials, 2010, 447-448, 1-8.	0.4	4
123	Burr and Cap Formation by Orbital Drilling of Aluminum. , 2010, , 31-45.		11
124	Ultra Precision Machining of Non-Ferrous Metals and Nitrocarburized Tool Steel. Key Engineering Materials, 2010, 447-448, 46-50.	0.4	1
125	Diamond Machinable Sol-Gel Silica Based Hybrid Coatings for High Precision Optical Molds. Key Engineering Materials, 2010, 438, 65-72.	0.4	6
126	Mechanisch induziertes HÄrten*. HTM - Journal of Heat Treatment and Materials, 2010, 65, 37-45.	0.1	11

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127	Kryogenes Festwalzen metastabiler Austenite. HTM - Journal of Heat Treatment and Materials, 2010, 65, 313-320.	0.1	3
128	Reduced Energy Consumption by Adapted Process Chains. , 2010, , 401-404.		0
129	Potenzial des Festwalzens zur Reduzierung fertigungsinduzierter VerzÃ¼ge. HTM - Journal of Heat Treatment and Materials, 2010, 65, 101-109.	0.1	1
130	Analyse des Faserverlaufes zur Herstellung verzugsarmer Lagerringe aus 100Cr6. HTM - Journal of Heat Treatment and Materials, 2010, 65, 321-325.	0.1	0
131	Current Approaches in Design and Supply of Metalworking Fluids. Tribology Transactions, 2009, 52, 591-601.	1.1	26
132	Diamond milling of nitrided steels for optical mold making. Journal of Vacuum Science & Technology B, 2009, 27, 1238.	1.3	8
133	Distortion engineering in turning processes with standard clamping systems. Materialwissenschaft Und Werkstofftechnik, 2009, 40, 385-389.	0.5	5
134	Thermochemical material removal of diamond by solid iron and mischmetal. Production Engineering, 2009, 3, 225-229.	1.1	0
135	Experimental and numerical identification of process parameters of grind-hardening and resulting part distortions. Production Engineering, 2009, 3, 271-279.	1.1	30
136	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
137	Microbial degradation of water miscible metal working fluids. International Biodeterioration and Biodegradation, 2009, 63, 1023-1029.	1.9	64
138	Superfinishing and grind-strengthening with elastic bonding system. Journal of Materials Processing Technology, 2009, 209, 6117-6123.	3.1	16
139	Prediction of shape deviations in machining. CIRP Annals - Manufacturing Technology, 2009, 58, 507-510.	1.7	51
140	Verzugskompensation in der Zerspanung unter Verwendung einer dynamischen Werkzeugzustellung. HTM - Journal of Heat Treatment and Materials, 2009, 64, 159-165.	0.1	2
141	Verringerung der WandstÃ¤rkeschwankung bei der Drehbearbeitung ringfÃ¶rmiger WerkstÃ¼cke. HTM - Journal of Heat Treatment and Materials, 2009, 64, 285-290.	0.1	0
142	Surface hardening by strain induced martensitic transformation. Production Engineering, 2008, 2, 109-116.	1.1	38
143	Manufacturing of molds for replication of micro cube corner retroreflectors. Production Engineering, 2008, 2, 33-38.	1.1	37
144	Tool path generation for ultra-precision machining of free-form surfaces. Production Engineering, 2008, 2, 241-246.	1.1	29

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145	Orbital drilling kinematics. Production Engineering, 2008, 2, 277-283.	1.1	101
146	Potentials of precision machining processes for the manufacture of micro forming molds. Microsystem Technologies, 2008, 14, 1983-1987.	1.2	20
147	Cold surface hardening. CIRP Annals - Manufacturing Technology, 2008, 57, 541-544.	1.7	49
148	Surface characteristics of micro-ultrasonically machined (100) silicon. International Journal of Machine Tools and Manufacture, 2008, 48, 473-476.	6.2	11
149	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
150	Wie viel Schmierstoff ist nötig? – Effizienter Einsatz von Kühlschmierstoffen. , 2008, , 110-118.		1
151	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
152	ELID Assisted Precision Conditioning of Coarse-Grained Diamond Grinding Wheel. Key Engineering Materials, 2007, 364-366, 578-583.	0.4	1
153	Influence of turning parameters on distortion of bearing rings. Production Engineering, 2007, 1, 135-139.	1.1	19
154	Distortion Engineering – Identification of Causes for Dimensional and Form Deviations of Bearing Rings. CIRP Annals - Manufacturing Technology, 2007, 56, 109-112.	1.7	36
155	Merging Technologies for Optics. , 2007, , 1-9.		3
156	Advances in Modeling and Simulation of Grinding Processes. CIRP Annals - Manufacturing Technology, 2006, 55, 667-696.	1.7	367
157	Micro-USAL technique for the manufacture of high quality microstructures in brittle materials. Precision Engineering, 2006, 30, 362-372.	1.8	16
158	Ultra-Precision Diamond Cutting of Steel Molds. CIRP Annals - Manufacturing Technology, 2006, 55, 551-554.	1.7	115
159	Finishing of structured surfaces by abrasive polishing. Precision Engineering, 2006, 30, 325-336.	1.8	96
160	Consideration of Core Segregations on the Formability of Bearing Steel. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 40-44.	0.5	3
161	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
162	Investigation of Nonlinear Dynamic Effects in Loaded Layer-Substrate Systems through Molecular Dynamics Simulation. , 2005, , 251-263.		1

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163	Advances in micro ultrasonic assisted lapping of microstructures in hard brittle materials: a brief review and outlook. International Journal of Machine Tools and Manufacture, 2005, 45, 881-890.	6.2	68
164	Capability Profile of Hard Cutting and Grinding Processes. CIRP Annals - Manufacturing Technology, 2005, 54, 22-45.	1.7	223
165	Development and Application of a Wheel Based Process Monitoring System in Grinding. CIRP Annals - Manufacturing Technology, 2005, 54, 301-304.	1.7	29
166	Hard gear finishing viewed as a process of abrasive wear. Wear, 2005, 258, 62-69.	1.5	28
167	High Precision Diamond Machining of Hybrid Sol-Gel Coatings. Journal of Sol-Gel Science and Technology, 2005, 35, 245-251.	1.1	25
168	Herstellung dreidimensionaler mikrooptischer Funktionsflächen. HTM - Journal of Heat Treatment and Materials, 2005, 60, 33-39.	0.1	2
169	Chemical Aspects of Machining Processes. CIRP Annals - Manufacturing Technology, 2004, 53, 685-699.	1.7	47
170	Polishing of Structured Molds. CIRP Annals - Manufacturing Technology, 2004, 53, 247-250.	1.7	71
171	Manufacturing of optical molds using an integrated simulation and measurement interface. , 2004, 5252, 80.		5
172	Einfluss von Maschinenstellgrößen auf die Eigenspannungszustände beim Drehen von Wälzlagerringen. HTM - Journal of Heat Treatment and Materials, 2004, 59, 169-175.	0.1	14
173	Machining of Precision Parts and Microstructures. , 2002, , 3-11.		19
174	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
175	Assessment of Grinding Fluid Effectiveness in Continuous-Dress Creep Feed Grinding. CIRP Annals - Manufacturing Technology, 2002, 51, 235-240.	1.7	42
176	Sub-surface deformation in vibration cutting of copper. Precision Engineering, 2001, 25, 218-223.	1.8	4
177	Advances in Precision Machining of Steel. CIRP Annals - Manufacturing Technology, 2001, 50, 385-388.	1.7	60
178	Generation of Reaction Layers on Machined Surfaces. CIRP Annals - Manufacturing Technology, 2000, 49, 435-438.	1.7	29
179	Investigation of the diamond machinability of newly developed hard coatings. Precision Engineering, 2000, 24, 146-152.	1.8	16
180	Grind-Hardening: A Comprehensive View. CIRP Annals - Manufacturing Technology, 1999, 48, 255-260.	1.7	134

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181	Friction, Cooling and Lubrication in Grinding. CIRP Annals - Manufacturing Technology, 1999, 48, 581-598.	1.7	275
182	Progress in Assessing Surface and Subsurface Integrity. CIRP Annals - Manufacturing Technology, 1998, 47, 669-693.	1.7	107
183	Modelling and optimization of grinding processes. Journal of Intelligent Manufacturing, 1998, 9, 303-314.	4.4	58
184	High-Speed Grinding-Fundamentals and State of the Art in Europe, Japan, and the USA. CIRP Annals - Manufacturing Technology, 1997, 46, 715-724.	1.7	83
185	Grinding at very Low Speeds. CIRP Annals - Manufacturing Technology, 1997, 46, 223-226.	1.7	14
186	Utilization of Grinding Heat as a New Heat Treatment Process. CIRP Annals - Manufacturing Technology, 1996, 45, 283-286.	1.7	134
187	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
188	Measurement of subsurface damage in silicon wafers. Precision Engineering, 1994, 16, 139-144.	1.8	45
189	Improving ecological aspects of the grinding process by effective waste management. Journal of Materials Processing Technology, 1994, 44, 171-178.	3.1	10
190	Randschicht-Wärmebehandlung durch Schleifen. HTM - Journal of Heat Treatment and Materials, 1994, 49, 327-330.	0.1	21
191	High-Performance Surface Grinding – The Influence of Coolant on the Abrasive Process. CIRP Annals - Manufacturing Technology, 1993, 42, 367-370.	1.7	57
192	Monitoring of Grinding Wheel Wear. CIRP Annals - Manufacturing Technology, 1992, 41, 373-376.	1.7	49
193	A selftuning Adaptive Control System for Grinding processes. CIRP Annals - Manufacturing Technology, 1991, 40, 355-358.	1.7	16
194	Eigenspannungsanalyse spanend bearbeiteter umwandlungsverstärkter Keramiken. Materialwissenschaft Und Werkstofftechnik, 1991, 22, 63-67.	0.5	0
195	Prediction of Tool Fracture in Drilling. CIRP Annals - Manufacturing Technology, 1990, 39, 97-100.	1.7	53
196	Hochdruck-Wasserstrahlen - ein neues Verfahren zur mechanischen Randzonenverfestigung. HTM - Journal of Heat Treatment and Materials, 1990, 45, 300-306.	0.1	1
197	State-of-the-art of non-destructive measurement of sub-surface material properties and damages. Precision Engineering, 1989, 11, 211-224.	1.8	48
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