

# Kornel F Ehmann

## List of Publications by Year in descending order

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156  
papers

4,558  
citations

101384

36  
h-index

143772

57  
g-index

158  
all docs

158  
docs citations

158  
times ranked

3028  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of forming temperature in electrically-assisted double-sided incremental forming using a neural network. Journal of Materials Processing Technology, 2022, 302, 117486.	3.1	17
2	High-throughput, in situ imaging of multi-layer powder-blown directed energy deposition with angled nozzle. Review of Scientific Instruments, 2022, 93, 023701.	0.6	1
3	Toolpath Planning for Manufacturing of Complex Parts Through Incremental Sheet Forming. , 2022, 1, .		1
4	MetaFEM: A generic FEM solver by meta-expressions. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114907.	3.4	3
5	Powder-borne porosity in directed energy deposition. Journal of Manufacturing Processes, 2022, 80, 69-74.	2.8	6
6	Galling phenomena in metal forming. Friction, 2021, 9, 665-685.	3.4	24
7	Template-bayesian approach for the evaluation of melt pool shape and dimension of a DED-process from in-situ X-ray images. CIRP Annals - Manufacturing Technology, 2021, 70, 183-186.	1.7	5
8	Towards bi-metallic injection molds by directed energy deposition. Manufacturing Letters, 2021, 27, 78-81.	1.1	5
9	Mechanical properties of hybrid additively manufactured Inconel 718 parts created via thermal control after secondary treatment processes. Journal of Materials Processing Technology, 2021, 291, 117047.	3.1	12
10	Physical mechanisms in hybrid additive manufacturing: A process design framework. Journal of Materials Processing Technology, 2021, 291, 117048.	3.1	51
11	A high-fidelity simulation of double-sided incremental forming: Improving the accuracy by incorporating the effects of machine compliance. Journal of Materials Processing Technology, 2021, 295, 117152.	3.1	8
12	Geometry-agnostic data-driven thermal modeling of additive manufacturing processes using graph neural networks. Additive Manufacturing, 2021, 48, 102449.	1.7	15
13	Texturing of metallic surfaces for superhydrophobicity by water jet guided laser micro-machining. Applied Surface Science, 2020, 500, 144286.	3.1	44
14	Surface hardening of metals at room temperature by nanoparticle-laden cavitating waterjets. Journal of Materials Processing Technology, 2020, 275, 116316.	3.1	6
15	Freeform surface fabrication on hardened steel by double frequency vibration cutting. Journal of Materials Processing Technology, 2020, 275, 116369.	3.1	15
16	Micro wave patterns by vibrating-lens assisted laser machining. Journal of Materials Processing Technology, 2020, 277, 116424.	3.1	5
17	Enumeration of additive manufacturing toolpaths using Hamiltonian paths. Manufacturing Letters, 2020, 26, 29-32.	1.1	2
18	Energy Density Comparison via Highspeed, In-situ Imaging of Directed Energy Deposition. Procedia Manufacturing, 2020, 48, 691-696.	1.9	0

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19	Near-field electrospinning on nonconductive substrates using AC fields. <i>Procedia CIRP</i> , 2020, 93, 120-124.	1.0	9
20	Forming and uniformity of shaft parts without a stub bar by axial closed- open-type cross-wedge rolling. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 1054-1063.	1.4	3
21	Fabrication of super-hydrophobic and highly oleophobic Ti-6Al-4V surfaces by a hybrid method. <i>Materials Research Bulletin</i> , 2020, 130, 110915.	2.7	10
22	Design and experimental investigation of a parallel flexure hinge-based 3D elliptical vibration-assisted cutting mechanism. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 085008.	1.5	9
23	Parameter Identification and Nonparametric Calibration of the Tri-Pyramid Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2309-2317.	3.7	18
24	Wettability modification of zirconia by laser surface texturing and silanization. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2182-2192.	1.1	20
25	Manipulation and Localized Deposition of Particle Groups with Modulated Electric Fields. <i>Micromachines</i> , 2020, 11, 226.	1.4	3
26	A VIBRATION-ASSISTED POWDER DELIVERY SYSTEM FOR ADDITIVE MANUFACTURING - An experimental investigation -. <i>Additive Manufacturing</i> , 2020, 34, 101170.	1.7	6
27	Simulation of Ultrashort Laser Pulse Absorption at the Water-Metal Interface in Laser-Induced Plasma Micromachining. <i>Journal of Micro and Nano-Manufacturing</i> , 2020, 8, .	0.8	1
28	Surface Morphology and Wall Angle Comparison of Microchannels Fabricated in Titanium Alloy Using Laser-Based Processes. <i>Journal of Micro and Nano-Manufacturing</i> , 2020, 8, .	0.8	0
29	Fabrication of controllable wettability of crystalline silicon surfaces by laser surface texturing and silanization. <i>Applied Surface Science</i> , 2019, 497, 143805.	3.1	22
30	Study of ultrasonic vibration-assisted thread turning of Inconel 718 superalloy. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401988377.	0.8	19
31	Porosity Formation and Melt pool Geometry Analysis Using High-speed, <i>in situ</i> Imaging of Directed Energy Deposition. <i>Microscopy and Microanalysis</i> , 2019, 25, 2556-2557.	0.2	13
32	Comparative Experimental Investigation of Micro-channel Fabrication in Ti Alloys by Laser Ablation and Laser-induced Plasma Micro-machining. <i>Procedia Manufacturing</i> , 2019, 34, 418-423.	1.9	9
33	Improving the accuracy of double-sided incremental forming simulations by considering kinematic hardening and machine compliance. <i>Procedia Manufacturing</i> , 2019, 29, 88-95.	1.9	10
34	Experimental study of water jet incremental micro-forming with supporting dies. <i>Journal of Materials Processing Technology</i> , 2019, 268, 117-131.	3.1	15
35	Characterization of 14YWT oxide dispersion strengthened structural materials under electrically-assisted tension. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 484-494.	2.6	11
36	In-situ high-speed X-ray imaging of piezo-driven directed energy deposition additive manufacturing. <i>Scientific Reports</i> , 2019, 9, 962.	1.6	96

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37	In-situ springback compensation in incremental sheet forming. CIRP Annals - Manufacturing Technology, 2019, 68, 317-320.	1.7	33
38	Acceleration strategies for explicit finite element analysis of metal powder-based additive manufacturing processes using graphical processing units. Computational Mechanics, 2019, 64, 879-894.	2.2	24
39	Material removal behavior in processing green Al <sub>2</sub> O <sub>3</sub> ceramics based on scratch and edge-indentation tests. Ceramics International, 2019, 45, 12495-12508.	2.3	11
40	Experimentally validated predictions of thermal history and microhardness in laser-deposited Inconel 718 on carbon steel. Additive Manufacturing, 2019, 27, 540-551.	1.7	64
41	Prediction of rigid body motion in multi-pass single point incremental forming. Journal of Materials Processing Technology, 2019, 269, 117-127.	3.1	23
42	A calibration method for overconstrained spatial translational parallel manipulators. Robotics and Computer-Integrated Manufacturing, 2019, 57, 241-254.	6.1	31
43	Fabrication of hierarchical freeform surfaces by 2D compliant vibration-assisted cutting. International Journal of Mechanical Sciences, 2019, 152, 454-464.	3.6	41
44	Chatter detection based on wavelet coherence functions in micro-end-milling processes. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1934-1945.	1.5	16
45	Design and models of helical needle geometries for core biopsies. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 113-124.	1.5	1
46	Galling growth analysis in metal forming. Manufacturing Letters, 2018, 16, 32-35.	1.1	3
47	Data-driven multi-scale multi-physics models to derive process-structure-property relationships for additive manufacturing. Computational Mechanics, 2018, 61, 521-541.	2.2	162
48	General contact force control algorithm in double-sided incremental forming. CIRP Annals - Manufacturing Technology, 2018, 67, 381-384.	1.7	17
49	Towards smart manufacturing process selection in Cyber-Physical Systems. Manufacturing Letters, 2018, 17, 1-5.	1.1	21
50	Surface roughness modeling in micro end-milling. International Journal of Advanced Manufacturing Technology, 2018, 95, 1655-1664.	1.5	22
51	Cooling rate effect on tensile strength of laser deposited Inconel 718. Procedia Manufacturing, 2018, 26, 912-919.	1.9	18
52	Quantifying Discretization Errors in Electrophoretically-Guided Micro Additive Manufacturing. Micromachines, 2018, 9, 447.	1.4	2
53	Data-driven prediction of the high-dimensional thermal history in directed energy deposition processes via recurrent neural networks. Manufacturing Letters, 2018, 18, 35-39.	1.1	110
54	Compensation of dynamic mechanical tracking errors in ball screw drives. Mechatronics, 2018, 55, 27-37.	2.0	24

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55	Response of High-Pressure Micro Water Jets to Static and Dynamic Nonuniform Electric Fields. Journal of Micro and Nano-Manufacturing, 2018, 6, .	0.8	5
56	Influence of pulse energy on machining characteristics in laser induced plasma micro-machining. Journal of Materials Processing Technology, 2018, 262, 85-94.	3.1	34
57	Vibration-Assisted Slicing of Soft Tissue for Biopsy Procedures. Journal of Medical Devices, Transactions of the ASME, 2018, 12, .	0.4	4
58	Study on design and cutting parameters of rotating needles for core biopsy. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 43-54.	1.5	16
59	Error modeling of a novel flexible lunar sampler. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 1269-1280.	0.7	0
60	Modeling of machined depth in laser surface texturing of medical needles. Precision Engineering, 2017, 47, 10-18.	1.8	13
61	Modeling of the effects of phase shift on cutting performance in elliptical vibration cutting. International Journal of Advanced Manufacturing Technology, 2017, 92, 3103-3115.	1.5	12
62	Investigation of hybrid micro-texture fabrication in elliptical vibration-assisted cutting. International Journal of Machine Tools and Manufacture, 2017, 120, 72-84.	6.2	26
63	Development of a Novel 2-D Vibration-Assisted Compliant Cutting System for Surface Texturing. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1796-1806.	3.7	61
64	Thermal effect on clad dimension for laser deposited Inconel 718. Journal of Manufacturing Processes, 2017, 28, 550-557.	2.8	46
65	Design, Analysis, and Realization of a Novel Piezoelectrically Actuated Rotary Spatial Vibration System for Micro-/Nanomachining. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1227-1237.	3.7	54
66	Tissue Cutting With Microserrated Biopsy Punches. Journal of Micro and Nano-Manufacturing, 2017, 5, .	0.8	13
67	On the Fracture Characterization in Double-Sided Incremental Forming of Ti6Al4V Sheets at Elevated Temperatures. Procedia Manufacturing, 2017, 10, 407-416.	1.9	16
68	Development of a two-frequency, elliptical-vibration texturing device for surface texturing. Journal of Mechanical Science and Technology, 2017, 31, 3465-3473.	0.7	40
69	Error modeling for sensitivity analysis and calibration of the tri-pyramid parallel robot. International Journal of Advanced Manufacturing Technology, 2017, 93, 1319-1332.	1.5	15
70	A novel instantaneous uncut chip thickness model for mechanistic cutting force model in micro-end-milling. International Journal of Advanced Manufacturing Technology, 2017, 93, 2305-2319.	1.5	27
71	Ultrasonic elliptical vibration cutting of hard materials: simulation and experimental study. International Journal of Advanced Manufacturing Technology, 2017, 91, 363-374.	1.5	37
72	Preliminary investigation of particle mobility enhancement in electrophoretic deposition with modulated electric fields. , 2017, , .		0

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73	Cutting forces prediction: The experimental identification of orthogonal cutting coefficients. FME Transactions, 2017, 45, 459-467.	0.7	16
74	Tri-pyramid Robot: stiffness modeling of a 3-DOF translational parallel manipulator. Robotica, 2016, 34, 383-402.	1.3	12
75	A novel piezoelectrically actuated 2-DoF compliant micro/nano-positioning stage with multi-level amplification. Review of Scientific Instruments, 2016, 87, 105006.	0.6	28
76	Manipulation of Water Jet Trajectory by a Nonuniform Electric Field in Water Jet Material Processing. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.8	8
77	An Efficient and General Finite Element Model for Double-Sided Incremental Forming. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	24
78	Theoretical and Experimental Investigation on Inclined Ultrasonic Elliptical Vibration Cutting of Alumina Ceramics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	20
79	Surface Modification of Polycrystalline Diamond Compacts by Carbon Ion Irradiation. Procedia Manufacturing, 2016, 5, 634-643.	1.9	0
80	Contributions in medical needle technologiesâ€™ Geometry, mechanics, design, and manufacturing. Machining Science and Technology, 2016, 20, 1-43.	1.4	13
81	Effective forming strategy for double-sided incremental forming considering in-plane curvature and tool direction. CIRP Annals - Manufacturing Technology, 2016, 65, 265-268.	1.7	30
82	Cutting forces in micro-end-milling processes. International Journal of Machine Tools and Manufacture, 2016, 107, 21-40.	6.2	133
83	Vibrational Cutting of Soft Tissue with Micro-serrated Surgical Scalpels. Procedia CIRP, 2016, 45, 199-202.	1.0	7
84	Three-dimensional process stability prediction of thin-walled workpiece in milling operation. Machining Science and Technology, 2016, 20, 406-424.	1.4	12
85	Springback Reduction by Annealing for Incremental Sheet Forming. Procedia Manufacturing, 2016, 5, 696-706.	1.9	25
86	Modeling and analysis of uncertainty in on-machine form characterization of diamond-machined optical micro-structured surfaces. Measurement Science and Technology, 2016, 27, 125017.	1.4	7
87	Chipping and crushing mechanisms in orthogonal rock cutting. International Journal of Mechanical Sciences, 2016, 119, 224-236.	3.6	50
88	Improving Surface Hydrophobicity by Microrolling-Based Texturing. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.8	7
89	Surface-blended texturing of medical needles for friction reduction using a picosecond laser. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	8
90	Experimental Assessment of Laser Textured Cutting Tools in Dry Cutting of Aluminum Alloys. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	61

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91	Effects of ultrasonic vibrations in micro-groove turning. <i>Ultrasonics</i> , 2016, 67, 30-40.	2.1	41
92	Ultrasonic elliptical vibration texturing of the rake face of carbide cutting tools for adhesion reduction. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 2669-2679.	1.5	13
93	Modeling and simulation of micro-groove topography on cylindrical surface by elliptical vibration-assisted turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 1407-1424.	1.5	12
94	Rotary spatial vibration-assisted diamond cutting of brittle materials. <i>Precision Engineering</i> , 2016, 44, 211-219.	1.8	45
95	Design of general kinematotropic mechanisms. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 38, 67-81.	6.1	20
96	Mechanism for active $\hat{I}$ -joint as an equivalent to the combination of revolute joint and proximal fixed-length link. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 37, 179-187.	6.1	1
97	A Mixed Double-Sided Incremental Forming Toolpath Strategy for Improved Geometric Accuracy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	25
98	Feasibility of Fiber-Deposition Control by Secondary Electric Fields in Near-Field Electrospinning. <i>Journal of Micro and Nano-Manufacturing</i> , 2015, 3, .	0.8	13
99	High-Speed Fabrication of Microchannels Using Line-Based Laser Induced Plasma Micromachining. <i>Journal of Micro and Nano-Manufacturing</i> , 2015, 3, .	0.8	11
100	Effects of Tool Positions in Accumulated Double-Sided Incremental Forming on Part Geometry. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	14
101	Experimental studies of wettability control on cylindrical surfaces by elliptical vibration texturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 1807-1817.	1.5	37
102	Analysis of cutting forces in the ultrasonic elliptical vibration-assisted micro-groove turning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 139-152.	1.5	37
103	Turning of Microgrooves Both With and Without Aid of Ultrasonic Elliptical Vibration. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1001-1009.	2.7	16
104	Joining sheet metals by electrically-assisted roll bonding. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 273-276.	1.7	24
105	Fabrication and tribological behaviors of corner-cube-like dimple arrays produced by laser surface texturing on medical needles. <i>Tribology International</i> , 2015, 92, 553-558.	3.0	35
106	Model of a NiTi shape memory alloy actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 386-399.	1.4	4
107	High throughput microfabrication using laser induced plasma in saline aqueous medium. <i>Journal of Materials Processing Technology</i> , 2015, 217, 77-87.	3.1	31
108	Dynamic design methodology of high speed micro-spindles for micro/meso-scale machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 229-246.	1.5	19

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109	Tool path generation for milling of free form surfaces with feed rate scheduling. FME Transactions, 2015, 43, 9-15.	0.7	14
110	Machining of Carbon Fiber Reinforced Plastics/Polymers: A Literature Review. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	1.3	246
111	Comparative Assessment of the Laser-Induced Plasma Micromachining and the Ultrashort Pulsed Laser Ablation Processes. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.8	16
112	Design of parallel hybrid-loop manipulators with kinematotropic property and deployability. Mechanism and Machine Theory, 2014, 71, 1-26.	2.7	56
113	Tri-pyramid Robot: Design and kinematic analysis of a 3-DOF translational parallel manipulator. Robotics and Computer-Integrated Manufacturing, 2014, 30, 648-657.	6.1	27
114	Experimental study of force responses in polycrystalline diamond face turning of rock. International Journal of Rock Mechanics and Minings Sciences, 2014, 72, 80-91.	2.6	33
115	Generation of hierarchical micro-structures for anisotropic wetting by elliptical vibration cutting. CIRP Annals - Manufacturing Technology, 2014, 63, 553-556.	1.7	79
116	Ultrasonic slot machining of a silicon carbide matrix composite. International Journal of Advanced Manufacturing Technology, 2013, 66, 1119-1134.	1.5	53
117	Development of a tertiary motion generator for elliptical vibration texturing. Precision Engineering, 2013, 37, 364-371.	1.8	151
118	An analysis of the surface generation mechanics of the elliptical vibration texturing process. International Journal of Machine Tools and Manufacture, 2013, 64, 85-95.	6.2	155
119	Laser-induced plasma micro-machining (LIPMM) for enhanced productivity and flexibility in laser-based micro-machining processes. CIRP Annals - Manufacturing Technology, 2013, 62, 211-214.	1.7	54
120	A thermo-mechanical model of dry orthogonal cutting and its experimental validation through embedded micro-scale thin film thermocouple arrays in PCBN tooling. International Journal of Machine Tools and Manufacture, 2013, 70, 70-87.	6.2	37
121	Study of the effect of cannula rotation on tissue cutting for needle biopsy. Medical Engineering and Physics, 2013, 35, 1584-1590.	0.8	33
122	An analytical model of rotary ultrasonic milling. International Journal of Advanced Manufacturing Technology, 2013, 65, 1705-1720.	1.5	44
123	Experimental Investigation of Hard Turning Mechanisms by PCBN Tooling Embedded Micro Thin Film Thermocouples. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	1.3	12
124	Design of a 3-DOF Compliant Parallel Mechanism for Displacement Amplification. , 2013, , .		2
125	Issues in Polycrystalline Diamond Compact Cutterâ€“Rock Interaction From a Metal Machining Point of Viewâ€“Part I: Temperature, Stresses, and Forces. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	27
126	Issues in Polycrystalline Diamond Compact Cutterâ€“Rock Interaction From a Metal Machining Point of Viewâ€“Part II: Bit Performance and Rock Cutting Mechanics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	25



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127	Measurement of Transient Tool-Internal Temperature Fields During Hard Turning by Insert-Embedded Thin Film Sensors. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	29
128	Models of the cutting edge geometry of medical needles with applications to needle design. International Journal of Mechanical Sciences, 2012, 65, 157-167.	3.6	58
129	A model of the kinetics of the temperature-induced phase transformation in NiTi alloys and its experimental verification. Journal of Intelligent Material Systems and Structures, 2012, 23, 35-44.	1.4	9
130	A three-axis translation stage using opposing wedges with error compensation. International Journal of Precision Engineering and Manufacturing, 2012, 13, 401-406.	1.1	6
131	A shape memory alloy based tool clamping device. Journal of Materials Processing Technology, 2012, 212, 735-744.	3.1	18
132	Hollow needle tissue insertion force model. CIRP Annals - Manufacturing Technology, 2011, 60, 157-160.	1.7	54
133	An Investigation On Deformation-Based Surface Texturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	41
134	Tool Embedded Thin Film Microsensors for Monitoring Thermal Phenomena at Tool-Workpiece Interface During Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	27
135	Surface Texturing of Tribological Interfaces Using the Vibromechanical Texturing Method. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	1.3	93
136	A Mechanistic Model of Cutting Forces in Micro-End-Milling With Cutting-Condition-Independent Cutting Force Coefficients. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	40
137	Instantaneous shear plane based cutting force model for end milling. Journal of Materials Processing Technology, 2005, 170, 164-180.	3.1	7
138	Analysis of dynamic characteristics of micro-drills. Journal of Materials Processing Technology, 2003, 141, 16-28.	3.1	30
139	The feasibility of eigenstructure assignment for machining chatter control. International Journal of Machine Tools and Manufacture, 2003, 43, 1603-1620.	6.2	6
140	Error Model and Accuracy Analysis of a Six-DOF Stewart Platform. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2002, 124, 286-295.	1.3	72
141	PL-2 Micro/Meso-scale Mechanical Manufacturing : Opportunities and Challenges. The Proceedings of the JSME Materials and Processing Conference (M&P), 2002, 10.1, 6-13.	0.1	19
142	Development and performance analysis of new spade bit designs. International Journal of Machine Tools and Manufacture, 2002, 42, 1403-1414.	6.2	15
143	Development of a virtual machining system, part 1: approximation of the size effect for cutting force prediction. International Journal of Machine Tools and Manufacture, 2002, 42, 1595-1605.	6.2	87
144	Development of a virtual machining system, part 2: prediction and analysis of a machined surface error. International Journal of Machine Tools and Manufacture, 2002, 42, 1607-1615.	6.2	47

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145	Development of a virtual machining system, part 3: cutting process simulation in transient cuts. International Journal of Machine Tools and Manufacture, 2002, 42, 1617-1626.	6.2	39
146	A dynamic model of the rolling process. Part I: homogeneous model. International Journal of Machine Tools and Manufacture, 2000, 40, 1-19.	6.2	74
147	A dynamic model of the rolling process. Part II: inhomogeneous model. International Journal of Machine Tools and Manufacture, 2000, 40, 21-31.	6.2	40
148	Calibration of a hexapod machine tool using a redundant leg. International Journal of Machine Tools and Manufacture, 2000, 40, 489-512.	6.2	97
149	Measurement methods for the position errors of a multi-axis machine. Part 1: principles and sensitivity analysis. International Journal of Machine Tools and Manufacture, 1999, 39, 951-964.	6.2	38
150	Measurement methods for the position errors of a multi-axis machine. Part 2: applications and experimental results. International Journal of Machine Tools and Manufacture, 1999, 39, 1485-1505.	6.2	28
151	Identification and control for micro-drilling productivity enhancement. International Journal of Machine Tools and Manufacture, 1999, 39, 1539-1561.	6.2	58
152	Generation of engineered surfaces by the surface-shaping system. International Journal of Machine Tools and Manufacture, 1995, 35, 1269-1290.	6.2	34
153	Drill wandering motion: Experiment and analysis. International Journal of Mechanical Sciences, 1995, 37, 495-509.	3.6	15
154	Three-Dimensional Surface Characterization by Two-Dimensional Autoregressive Models. Journal of Tribology, 1995, 117, 385-393.	1.0	12
155	Tool wear monitoring by using the imaginary part of the transfer function of the cutting dynamics. International Journal of Machine Tools and Manufacture, 1994, 34, 393-406.	6.2	3
156	Solution principles for a new generation of precision self-correcting multi-axis machines. Robotics and Computer-Integrated Manufacturing, 1990, 7, 357-364.	6.1	1