Kornel F Ehmann

List of Publications by Year in descending order

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101384 143772 4,558 156 36 57 citations g-index h-index papers 158 158 158 3028 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	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
2	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
3	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
4	Development of a tertiary motion generator for elliptical vibration texturing. Precision Engineering, 2013, 37, 364-371.	1.8	151
5	Cutting forces in micro-end-milling processes. International Journal of Machine Tools and Manufacture, 2016, 107, 21-40.	6.2	133
6	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
7	Calibration of a hexapod machine tool using a redundant leg. International Journal of Machine Tools and Manufacture, 2000, 40, 489-512.	6.2	97
8	In-situ high-speed X-ray imaging of piezo-driven directed energy deposition additive manufacturing. Scientific Reports, 2019, 9, 962.	1.6	96
9	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
10	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
11	Generation of hierarchical micro-structures for anisotropic wetting by elliptical vibration cutting. CIRP Annals - Manufacturing Technology, 2014, 63, 553-556.	1.7	79
12	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
13	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
14	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
15	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
16	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
17	Identification and control for micro-drilling productivity enhancement. International Journal of Machine Tools and Manufacture, 1999, 39, 1539-1561.	6.2	58
18	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

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19	Design of parallel hybrid-loop manipulators with kinematotropic property and deployability. Mechanism and Machine Theory, 2014, 71, 1-26.	2.7	56
20	Hollow needle tissue insertion force model. CIRP Annals - Manufacturing Technology, 2011, 60, 157-160.	1.7	54
21	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
22	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
23	Ultrasonic slot machining of a silicon carbide matrix composite. International Journal of Advanced Manufacturing Technology, 2013, 66, 1119-1134.	1.5	53
24	Physical mechanisms in hybrid additive manufacturing: A process design framework. Journal of Materials Processing Technology, 2021, 291, 117048.	3.1	51
25	Chipping and crushing mechanisms in orthogonal rock cutting. International Journal of Mechanical Sciences, 2016, 119, 224-236.	3.6	50
26	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
27	Thermal effect on clad dimension for laser deposited Inconel 718. Journal of Manufacturing Processes, 2017, 28, 550-557.	2.8	46
28	Rotary spatial vibration-assisted diamond cutting of brittle materials. Precision Engineering, 2016, 44, 211-219.	1.8	45
29	An analytical model of rotary ultrasonic milling. International Journal of Advanced Manufacturing Technology, 2013, 65, 1705-1720.	1.5	44
30	Texturing of metallic surfaces for superhydrophobicity by water jet guided laser micro-machining. Applied Surface Science, 2020, 500, 144286.	3.1	44
31	An Investigation On Deformation-Based Surface Texturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	41
32	Effects of ultrasonic vibrations in micro-groove turning. Ultrasonics, 2016, 67, 30-40.	2.1	41
33	Fabrication of hierarchical freeform surfaces by 2D compliant vibration-assisted cutting. International Journal of Mechanical Sciences, 2019, 152, 454-464.	3.6	41
34	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
35	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
36	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

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37	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
38	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
39	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
40	Experimental studies of wettability control on cylindrical surfaces by elliptical vibration texturing. International Journal of Advanced Manufacturing Technology, 2015, 76, 1807-1817.	1.5	37
41	Analysis of cutting forces in the ultrasonic elliptical vibration-assisted micro-groove turning process. International Journal of Advanced Manufacturing Technology, 2015, 78, 139-152.	1.5	37
42	Ultrasonic elliptical vibration cutting of hard materials: simulation and experimental study. International Journal of Advanced Manufacturing Technology, 2017, 91, 363-374.	1.5	37
43	Fabrication and tribological behaviors of corner-cube-like dimple arrays produced by laser surface texturing on medical needles. Tribology International, 2015, 92, 553-558.	3.0	35
44	Generation of engineered surfaces by the surface-shaping system. International Journal of Machine Tools and Manufacture, 1995, 35, 1269-1290.	6.2	34
45	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
46	Study of the effect of cannula rotation on tissue cutting for needle biopsy. Medical Engineering and Physics, 2013, 35, 1584-1590.	0.8	33
47	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
48	In-situ springback compensation in incremental sheet forming. CIRP Annals - Manufacturing Technology, 2019, 68, 317-320.	1.7	33
49	High throughput microfabrication using laser induced plasma in saline aqueous medium. Journal of Materials Processing Technology, 2015, 217, 77-87.	3.1	31
50	A calibration method for overconstrained spatial translational parallel manipulators. Robotics and Computer-Integrated Manufacturing, 2019, 57, 241-254.	6.1	31
51	Analysis of dynamic characteristics of micro-drills. Journal of Materials Processing Technology, 2003, 141, 16-28.	3.1	30
52	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
53	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
54	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

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55	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
56	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
57	Issues in Polycrystalline Diamond Compact Cutter–Rock Interaction From a Metal Machining Point of View—Part I: Temperature, Stresses, and Forces. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	27
58	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
59	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
60	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
61	Issues in Polycrystalline Diamond Compact Cutter–Rock Interaction From a Metal Machining Point of View—Part II: Bit Performance and Rock Cutting Mechanics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	25
62	A Mixed Double-Sided Incremental Forming Toolpath Strategy for Improved Geometric Accuracy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	25
63	Springback Reduction by Annealing for Incremental Sheet Forming. Procedia Manufacturing, 2016, 5, 696-706.	1.9	25
64	Joining sheet metals by electrically-assisted roll bonding. CIRP Annals - Manufacturing Technology, 2015, 64, 273-276.	1.7	24
65	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
66	Compensation of dynamic mechanical tracking errors in ball screw drives. Mechatronics, 2018, 55, 27-37.	2.0	24
67	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
68	Galling phenomena in metal forming. Friction, 2021, 9, 665-685.	3.4	24
69	Prediction of rigid body motion in multi-pass single point incremental forming. Journal of Materials Processing Technology, 2019, 269, 117-127.	3.1	23
70	Surface roughness modeling in micro end-milling. International Journal of Advanced Manufacturing Technology, 2018, 95, 1655-1664.	1.5	22
71	Fabrication of controllable wettability of crystalline silicon surfaces by laser surface texturing and silanization. Applied Surface Science, 2019, 497, 143805.	3.1	22
72	Towards smart manufacturing process selection in Cyber-Physical Systems. Manufacturing Letters, 2018, 17, 1-5.	1,1	21

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73	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
74	Design of general kinematotropic mechanisms. Robotics and Computer-Integrated Manufacturing, 2016, 38, 67-81.	6.1	20
75	Wettability modification of zirconia by laser surface texturing and silanization. International Journal of Applied Ceramic Technology, 2020, 17, 2182-2192.	1.1	20
76	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
77	Dynamic design methodology of high speed micro-spindles for micro/meso-scale machine tools. International Journal of Advanced Manufacturing Technology, 2015, 76, 229-246.	1.5	19
78	Study of ultrasonic vibration–assisted thread turning of Inconel 718 superalloy. Advances in Mechanical Engineering, 2019, 11, 168781401988377.	0.8	19
79	A shape memory alloy based tool clamping device. Journal of Materials Processing Technology, 2012, 212, 735-744.	3.1	18
80	Cooling rate effect on tensile strength of laser deposited Inconel 718. Procedia Manufacturing, 2018, 26, 912-919.	1.9	18
81	Parameter Identification and Nonparametric Calibration of the Tri-Pyramid Robot. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2309-2317.	3.7	18
82	General contact force control algorithm in double-sided incremental forming. CIRP Annals - Manufacturing Technology, 2018, 67, 381-384.	1.7	17
83	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
84	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
85	Turning of Microgrooves Both With and Without Aid of Ultrasonic Elliptical Vibration. Materials and Manufacturing Processes, 2015, 30, 1001-1009.	2.7	16
86	On the Fracture Characterization in Double-Sided Incremental Forming of Ti6Al4V Sheets at Elevated Temperatures. Procedia Manufacturing, 2017, 10, 407-416.	1.9	16
87	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
88	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
89	Cutting forces prediction: The experimental identification of orthogonal cutting coefficients. FME Transactions, 2017, 45, 459-467.	0.7	16
90	Drill wandering motion: Experiment and analysis. International Journal of Mechanical Sciences, 1995, 37, 495-509.	3.6	15

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91	Development and performance analysis of new spade bit designs. International Journal of Machine Tools and Manufacture, 2002, 42, 1403-1414.	6.2	15
92	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
93	Experimental study of water jet incremental micro-forming with supporting dies. Journal of Materials Processing Technology, 2019, 268, 117-131.	3.1	15
94	Freeform surface fabrication on hardened steel by double frequency vibration cutting. Journal of Materials Processing Technology, 2020, 275, 116369.	3.1	15
95	Geometry-agnostic data-driven thermal modeling of additive manufacturing processes using graph neural networks. Additive Manufacturing, 2021, 48, 102449.	1.7	15
96	Effects of Tool Positions in Accumulated Double-Sided Incremental Forming on Part Geometry. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	14
97	Tool path generation for milling of free form surfaces with feed rate scheduling. FME Transactions, 2015, 43, 9-15.	0.7	14
98	Feasibility of Fiber-Deposition Control by Secondary Electric Fields in Near-Field Electrospinning. Journal of Micro and Nano-Manufacturing, 2015, 3, .	0.8	13
99	Contributions in medical needle technologies—Geometry, mechanics, design, and manufacturing. Machining Science and Technology, 2016, 20, 1-43.	1.4	13
100	Ultrasonic elliptical vibration texturing of the rake face of carbide cutting tools for adhesion reduction. International Journal of Advanced Manufacturing Technology, 2016, 85, 2669-2679.	1.5	13
101	Modeling of machined depth in laser surface texturing of medical needles. Precision Engineering, 2017, 47, 10-18.	1.8	13
102	Tissue Cutting With Microserrated Biopsy Punches. Journal of Micro and Nano-Manufacturing, 2017, 5,	0.8	13
103	Porosity Formation and Meltpool Geometry Analysis Using High-speed, <i>in situ</i> Imaging of Directed Energy Deposition. Microscopy and Microanalysis, 2019, 25, 2556-2557.	0.2	13
104	Three-Dimensional Surface Characterization by Two-Dimensional Autoregressive Models. Journal of Tribology, 1995, 117, 385-393.	1.0	12
105	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
106	Tri-pyramid Robot: stiffness modeling of a 3-DOF translational parallel manipulator. Robotica, 2016, 34, 383-402.	1.3	12
107	Three-dimensional process stability prediction of thin-walled workpiece in milling operation. Machining Science and Technology, 2016, 20, 406-424.	1.4	12
108	Modeling and simulation of micro-groove topography on cylindrical surface by elliptical vibration-assisted turning. International Journal of Advanced Manufacturing Technology, 2016, 86, 1407-1424.	1.5	12

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109	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
110	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
111	High-Speed Fabrication of Microchannels Using Line-Based Laser Induced Plasma Micromachining. Journal of Micro and Nano-Manufacturing, 2015, 3, .	0.8	11
112	Characterization of 14YWT oxide dispersion strengthened structural materials under electrically-assisted tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 745, 484-494.	2.6	11
113	Material removal behavior in processing green Al2O3 ceramics based on scratch and edge-indentation tests. Ceramics International, 2019, 45, 12495-12508.	2.3	11
114	Improving the accuracy of double-sided incremental forming simulations by considering kinematic hardening and machine compliance. Procedia Manufacturing, 2019, 29, 88-95.	1.9	10
115	Fabrication of super-hydrophobic and highly oleophobic Ti-6Al-4 V surfaces by a hybrid method. Materials Research Bulletin, 2020, 130, 110915.	2.7	10
116	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
117	Comparative Experimental Investigation of Micro-channel Fabrication in Ti Alloys by Laser Ablation and Laser-induced Plasma Micro-machining. Procedia Manufacturing, 2019, 34, 418-423.	1.9	9
118	Near-field electrospinning on nonconductive substrates using AC fields. Procedia CIRP, 2020, 93, 120-124.	1.0	9
119	Design and experimental investigation of a parallel flexure hinge-based 3D elliptical vibration-assisted cutting mechanism. Journal of Micromechanics and Microengineering, 2020, 30, 085008.	1.5	9
120	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
121	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
122	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
123	Instantaneous shear plane based cutting force model for end milling. Journal of Materials Processing Technology, 2005, 170, 164-180.	3.1	7
124	Vibrational Cutting of Soft Tissue with Micro-serrated Surgical Scalpels. Procedia CIRP, 2016, 45, 199-202.	1.0	7
125	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
126	Improving Surface Hydrophobicity by Microrolling-Based Texturing. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.8	7

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127	The feasibility of eigenstructure assignment for machining chatter control. International Journal of Machine Tools and Manufacture, 2003, 43, 1603-1620.	6.2	6
128	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
129	Surface hardening of metals at room temperature by nanoparticle-laden cavitating waterjets. Journal of Materials Processing Technology, 2020, 275, 116316.	3.1	6
130	A VIBRATION-ASSISTED POWDER DELIVERY SYSTEM FOR ADDITIVE MANUFACTURING - An experimental investigation Additive Manufacturing, 2020, 34, 101170.	1.7	6
131	Powder-borne porosity in directed energy deposition. Journal of Manufacturing Processes, 2022, 80, 69-74.	2.8	6
132	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
133	Micro wave patterns by vibrating-lens assisted laser machining. Journal of Materials Processing Technology, 2020, 277, 116424.	3.1	5
134	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
135	Towards bi-metallic injection molds by directed energy deposition. Manufacturing Letters, 2021, 27, 78-81.	1.1	5
136	Model of a NiTi shape memory alloy actuator. Journal of Intelligent Material Systems and Structures, 2015, 26, 386-399.	1.4	4
137	Vibration-Assisted Slicing of Soft Tissue for Biopsy Procedures. Journal of Medical Devices, Transactions of the ASME, 2018, 12, .	0.4	4
138	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
139	Galling growth analysis in metal forming. Manufacturing Letters, 2018, 16, 32-35.	1.1	3
140	Forming and uniformity of shaft parts without a stub bar by axial closed–open-type cross-wedge rolling. Journal of Iron and Steel Research International, 2020, 27, 1054-1063.	1.4	3
141	Manipulation and Localized Deposition of Particle Groups with Modulated Electric Fields. Micromachines, 2020, 11, 226.	1.4	3
142	MetaFEM: A generic FEM solver by meta-expressions. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114907.	3.4	3
143	Design of a 3-DOF Compliant Parallel Mechanism for Displacement Amplification. , 2013, , .		2
144	Quantifying Discretization Errors in Electrophoretically-Guided Micro Additive Manufacturing. Micromachines, 2018, 9, 447.	1.4	2

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145	Enumeration of additive manufacturing toolpaths using Hamiltonian paths. Manufacturing Letters, 2020, 26, 29-32.	1.1	2
146	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
147	Mechanism for active Î-joint as an equivalent to the combination of revolute joint and proximal fixed-length link. Robotics and Computer-Integrated Manufacturing, 2016, 37, 179-187.	6.1	1
148	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
149	Simulation of Ultrashort Laser Pulse Absorption at the Water–Metal Interface in Laser-Induced Plasma Micromachining. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.8	1
150	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
151	Toolpath Planning for Manufacturing of Complex Parts Through Incremental Sheet Forming. , 2022, 1, .		1
152	Surface Modification of Polycrystalline Diamond Compacts by Carbon Ion Irradiation. Procedia Manufacturing, 2016, 5, 634-643.	1.9	0
153	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
154	Preliminary investigation of particle mobility enhancement in electrophoretic deposition with modulated electric fields. , 2017, , .		0
155	Energy Density Comparison via Highspeed, In-situ Imaging of Directed Energy Deposition. Procedia Manufacturing, 2020, 48, 691-696.	1.9	0
156	Surface Morphology and Wall Angle Comparison of Microchannels Fabricated in Titanium Alloy Using Laser-Based Processes. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.8	0