Ming Luo

List of Publications by Year
in descending order

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89	1,650	304743 22	361022 35
papers	citations	h-index	g-index

89	89	89	1121
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Operational modal analysis based dynamic parameters identification in milling of thin-walled workpiece. Mechanical Systems and Signal Processing, 2022, 167, 108469.	8.0	15
2	Modelling of nonlinear and dual-modulus characteristics and macro-orthogonal cutting simulation of unidirectional Carbon/Carbon composites. Composite Structures, 2022, 280, 114928.	5.8	3
3	Heterologous overexpression of StERF3 triggers cell death in Nicotiana benthamiana. Plant Science, 2022, 315, 111149.	3.6	4
4	An accurate detection of tool wear type in drilling process by applying PCA and one-hot encoding to SSA-BLSTM model. International Journal of Advanced Manufacturing Technology, 2022, 118, 3897-3916.	3.0	10
5	A new method for prediction of cutting force considering the influence of machine tool system and tool wear. International Journal of Advanced Manufacturing Technology, 2022, 120, 1843-1852.	3.0	4
6	Tool wear prediction at different cutting edge locations for ball-end cutter in milling of Ni-based superalloy freeform surface part. International Journal of Advanced Manufacturing Technology, 2022, 120, 2961-2977.	3.0	5
7	Cutting force prediction between different machine tool systems based on transfer learning method. International Journal of Advanced Manufacturing Technology, 2022, 121, 619-631.	3.0	3
8	A Phytophthora effector promotes homodimerization of host transcription factor StKNOX3 to enhance susceptibility. Journal of Experimental Botany, 2022, 73, 6902-6915.	4.8	9
9	Dynamic modeling and stability prediction in milling process of thin-walled workpiece with multiple structural modes. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 2205-2218.	2.4	11
10	A digital twin-based big data virtual and real fusion learning reference framework supported by industrial internet towards smart manufacturing. Journal of Manufacturing Systems, 2021, 58, 16-32.	13.9	81
11	Position dependent vibration evaluation in milling of thin-walled part based on single-point monitoring. Measurement: Journal of the International Measurement Confederation, 2021, 171, 108810.	5.0	13
12	Dynamic Response Prediction and Control for Machining Process. Research on Intelligent Manufacturing, 2021, , 135-166.	0.3	0
13	Machining process monitoring and application: a review. Journal of Advanced Manufacturing Science and Technology, 2021, 1, 2021001-2021001.	1.1	7
14	A Model Reconstruction Method of Blade Repair Based on Linear Combination. International Journal of Precision Engineering and Manufacturing, 2021, 22, 383-394.	2.2	9
15	A general method for calibration of milling force coefficients and cutter runout parameters simultaneously for helical end milling. International Journal of Advanced Manufacturing Technology, 2021, 116, 2989-2997.	3.0	4
16	Position-oriented process monitoring in milling of thin-walled parts. Journal of Manufacturing Systems, 2021, 60, 360-372.	13.9	26
17	Machining Process Monitoring and the Data Processing Method. Research on Intelligent Manufacturing, 2021, , 45-76.	0.3	1
18	Learning and Optimization of Process Model. Research on Intelligent Manufacturing, 2021, , 77-134.	0.3	0

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19	Phytophthora infestans RXLR effector Pi04089 perturbs diverse defense-related genes to suppress host immunity. BMC Plant Biology, 2021, 21, 582.	3.6	5
20	Tool Wear Monitoring for Complex Part Milling Based on Deep Learning. Applied Sciences (Switzerland), 2020, 10, 6916.	2.5	38
21	A new in-processes active control method for reducing the residual stresses induced deformation of thin-walled parts. Journal of Manufacturing Processes, 2020, 59, 316-325.	5.9	30
22	Milling distortion prediction for thin-walled component based on the average MIRS in specimen machining. International Journal of Advanced Manufacturing Technology, 2020, 111, 3379-3392.	3.0	17
23	A dynamic cutting force model for transverse orthogonal cutting of unidirectional carbon/carbon composites considering fiber distribution. Composite Structures, 2020, 251, 112668.	5.8	13
24	Optimization of varying-parameter drilling for multi-hole parts using metaheuristic algorithm coupled with self-adaptive penalty method. Applied Soft Computing Journal, 2020, 95, 106489.	7.2	16
25	Milling dynamic model based on rotatory Eulerâ€“Bernoulli beam model under distributed load. Applied Mathematical Modelling, 2020, 83, 266-283.	4.2	7
26	Machining vibration monitoring based on dynamic clamping force measuring in thin-walled components milling. International Journal of Advanced Manufacturing Technology, 2020, 107, 2211-2226.	3.0	18
27	Investigation of Tool Wear and Chip Morphology in Dry Trochoidal Milling of Titanium Alloy Tiâ€“6Alâ€“4V. Materials, 2019, 12, 1937.	2.9	33
28	Geometric modelling of thin-walled blade based on compensation method of machining error and design intent. Journal of Manufacturing Processes, 2019, 44, 327-336.	5.9	33
29	A novel in-process machining deformation perception and control method*. , 2019, , .		1
30	Mechanistic modelling of worn drill cutting forces with drill wear effect coefficients. Procedia CIRP, 2019, 82, 2-7.	1.9	8
31	Coral-like Ni_xCo_{1â^'x}Se₂ for Na-ion battery with ultralong cycle life and ultrahigh rate capability. Journal of Materials Chemistry A, 2019, 7, 3933-3940.	10.3	85
32	Four-axis trochoidal toolpath planning for rough milling of aero-engine blisks. Chinese Journal of Aeronautics, 2019, 32, 2009-2016.	5.3	51
33	Modelling of the Porousness inside 2.5D Carbon/Carbon Composites. Procedia CIRP, 2019, 85, 43-48.	1.9	1
34	A GPU-based tool parameters optimization and tool orientation control method for four-axis milling with ball-end cutter. International Journal of Advanced Manufacturing Technology, 2019, 102, 1107-1125.	3.0	4
35	Generation of Tool-Life-Prolonging and Chatter-Free Efficient Toolpath for Five-Axis Milling of Freeform Surfaces. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	11
36	A new approach to geometric error modeling and compensation for a three-axis machine tool. International Journal of Advanced Manufacturing Technology, 2019, 102, 1249-1256.	3.0	21

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37	Prediction of distortion induced by machining residual stresses in thin-walled components. International Journal of Advanced Manufacturing Technology, 2018, 95, 4153-4162.	3.0	33
38	A wireless instrumented milling cutter system with embedded PVDF sensors. Mechanical Systems and Signal Processing, 2018, 110, 556-568.	8.0	102
39	On-line cutting force coefficients identification for bull-end milling process with vibration. Measurement: Journal of the International Measurement Confederation, 2018, 125, 243-253.	5.0	15
40	Multi-axis variable depth-of-cut machining of thin-walled workpieces based on the workpiece deflection constraint. CAD Computer Aided Design, 2018, 100, 14-29.	2.7	30
41	Optimization of machining strip width using effective cutting shape of flat-end cutter for five-axis free-form surface machining. International Journal of Advanced Manufacturing Technology, 2018, 94, 2623-2633.	3.0	16
42	Improving tool life in multi-axis milling of Ni-based superalloy with ball-end cutter based on the active cutting edge shift strategy. Journal of Materials Processing Technology, 2018, 252, 105-115.	6.3	54
43	Identification of cutting force coefficients in machining process considering cutter vibration. Mechanical Systems and Signal Processing, 2018, 103, 39-59.	8.0	57
44	Analysis on the Correlation between Plunge Milling Parameters and Plunge Milling Force and Force Coefficient. , 2018, , .		0
45	High Performance Cutting of Titanium Alloy Based on the Thermo-mechanical coupling effect. Procedia CIRP, 2018, 77, 126-129.	1.9	4
46	Time-position mapping method for monitoring data and cutting position. , 2018, , .		0
47	Vibrations of Flat-End Cutter Entering Workpiece Process: Modeling, Simulations, and Experiments. Shock and Vibration, 2018, 2018, 1-23.	0.6	4
48	Cutting Forces Measurement for Milling Process by Using Working Tables with Integrated PVDF Thin-Film Sensors. Sensors, 2018, 18, 4031.	3.8	20
49	Iterative Learning Method for Drilling Depth Optimization in Peck Deep-Hole Drilling. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	17
50	A force-measuring-based approach for feed rate optimization considering the stochasticity of machining allowance. International Journal of Advanced Manufacturing Technology, 2018, 97, 2545-2556.	3.0	12
51	Image Skeleton and GA Based Tool Selection for 2 1/2-Axis Rough Milling. IEEE Access, 2018, 6, 32566-32575.	4.2	1
52	Radio network-aware edge caching for video delivery in MEC-enabled cellular networks. , 2018, , .		19
53	Analytical Modeling, Design and Performance Evaluation of Chatter-Free Milling Cutter With Alternating Pitch Variations. IEEE Access, 2018, 6, 32367-32375.	4.2	9
54	On the Machinability and Surface Finish of Superalloy GH909 Under Dry Cutting Conditions. Materials Research, 2018, 21, .	1.3	6

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55	A GPU-Accelerated Approach for Collision Detection and Tool Posture Modification in Multi-Axis Machining. IEEE Access, 2018, 6, 35132-35142.	4.2	9
56	Chip evacuation force modelling for deep hole drilling with twist drills. International Journal of Advanced Manufacturing Technology, 2018, 98, 3091-3103.	3.0	18
57	Stability improvement and vibration suppression of the thin-walled workpiece in milling process via magnetorheological fluid flexible fixture. International Journal of Advanced Manufacturing Technology, 2017, 88, 1231-1242.	3.0	37
58	Effects of cutting parameters on tool insert wear in end milling of titanium alloy Ti6Al4V. Chinese Journal of Mechanical Engineering (English Edition), 2017, 30, 53-59.	3.7	19
59	Tool posture dependent chatter suppression in five-axis milling of thin-walled workpiece with ball-end cutter. International Journal of Advanced Manufacturing Technology, 2017, 91, 287-299.	3.0	15
60	Two Unprecedented POM-Based Inorganicâ€“Organic Hybrids with Concomitant Heteropolytungstate and Molybdate. Inorganic Chemistry, 2017, 56, 2481-2489.	4.0	76
61	Numerical and Empirical Modelling of Machining-induced Residual Stresses in Ball end Milling of Inconel 718. Procedia CIRP, 2017, 58, 7-12.	1.9	18
62	Real-Time Deflection Monitoring for Milling of a Thin-Walled Workpiece by Using PVDF Thin-Film Sensors with a Cantilevered Beam as a Case Study. Sensors, 2016, 16, 1470.	3.8	22
63	Time-domain modeling of a cutter exiting a workpiece in the slot milling process. Chinese Journal of Aeronautics, 2016, 29, 1852-1858.	5.3	18
64	Cutting Force Prediction in Four-axis Milling of Curved Surfaces with Bull-nose End Mill. Procedia CIRP, 2016, 56, 100-104.	1.9	5
65	Feedrate optimization for worn cutter with measured cutting force in rough milling. , 2016, , .		4
66	Effects of cutting parameters on tool insert wear in end milling of titanium alloy Ti6Al4V. Chinese Journal of Mechanical Engineering (English Edition), 2016, , .	3.7	3
67	Barrel cutter design and toolpath planning for high-efficiency machining of freeform surface. International Journal of Advanced Manufacturing Technology, 2016, 85, 2495-2503.	3.0	39
68	Optimization of Barrel Cutter for Five-axis Flank-milling Based on Approximation of Tool Envelope Surface. Computer-Aided Design and Applications, 2015, 12, 717-722.	0.6	8
69	Kinematic analysis and feedrate optimization in six-axis NC abrasive belt grinding of blades. International Journal of Advanced Manufacturing Technology, 2015, 79, 405-414.	3.0	28
70	Milling Force Modeling of Worn Tool and Tool Flank Wear Recognition in End Milling. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1024-1035.	5.8	55
71	Chatter stability prediction in four-axis milling of aero-engine casings with bull-nose end mill. Chinese Journal of Aeronautics, 2015, 28, 1766-1773.	5.3	31
72	Modeling and Cutting Path Optimization of Shallow Shell Considering its Varying Dynamics During Machining. Procedia CIRP, 2015, 31, 521-526.	1.9	8

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73	Localization of freeform surface workpiece with particle swarm optimization algorithm. , 2014, , .		4
74	Tool flank wear recognition based on the variation of milling force vector in end milling. , 2014, , .		1
75	Toolpath dependent chatter suppression in multi-axis milling of hollow fan blades with ball-end cutter. International Journal of Advanced Manufacturing Technology, 2014, 72, 643-651.	3.0	36
76	Effects of mesoporous silica particles on the emulsion polymerization of methyl methacrylate. Polymer Engineering and Science, 2014, 54, 2746-2752.	3.1	9
77	Prediction and Experimental Validation of Cutting Force for Bull-Nose End Mills with Lead Angle. Advances in Mechanical Engineering, 2014, 6, 650215.	1.6	2
78	Cutting force prediction for circular end milling process. Chinese Journal of Aeronautics, 2013, 26, 1057-1063.	5.3	61
79	Mechanistic identification of cutting force coefficients in bull-nose milling process. Chinese Journal of Aeronautics, 2013, 26, 823-830.	5.3	46
80	Collision and interference correction for impeller machining with non-orthogonal four-axis machine tool. International Journal of Advanced Manufacturing Technology, 2013, 68, 693-700.	3.0	17
81	Preparation and properties of soapless poly(styreneâ€“butyl acrylateâ€“acrylic acid)/SiO2 composite emulsion. Iranian Polymer Journal (English Edition), 2012, 21, 289-296.	2.4	11
82	Tool Path Generation for Clean-up Machining of Impeller by Point-searching Based Method. Chinese Journal of Aeronautics, 2012, 25, 131-136.	5.3	16
83	Clean-up Tool-path Generation for Multi-patch Solid Model by Searching Approach. , 2008, , 365-374.		1
84	Toolpath Generation for Four-Axis Rough Milling of Sculptured Surface Turbine Blade. Lecture Notes in Computer Science, 2008, , 887-895.	1.3	2
85	Modeling and Analysis Effects of Material Removal on Machining Dynamics in Milling of Thin-Walled Workpiece. Advanced Materials Research, 0, 223, 671-678.	0.3	5
86	Deformation Control and Chatter Suppression in 5-Axis Milling of Thin-Walled Blade. Advanced Materials Research, 0, 188, 314-318.	0.3	1
87	Investigation of Trochoidal Milling Nickel-Based Superalloy. Materials Science Forum, 0, 723, 332-336.	0.3	17
88	Position-varying surface roughness prediction method considering compensated acceleration in milling of thin-walled workpiece. Frontiers of Mechanical Engineering, 0, , 1.	4.3	10
89	A comparative study of force models in monitoring the flank wear using the cutting force coefficients. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622211117.	2.1	2