

Min Wan

List of Publications by Year in descending order

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74
papers

2,510
citations

147801

31
h-index

223800

46
g-index

75
all docs

75
docs citations

75
times ranked

1044
citing authors

#	ARTICLE	IF	CITATIONS
1	Chatter prediction for the peripheral milling of thin-walled workpieces with curved surfaces. International Journal of Machine Tools and Manufacture, 2016, 109, 36-48.	13.4	141
2	A unified stability prediction method for milling process with multiple delays. International Journal of Machine Tools and Manufacture, 2010, 50, 29-41.	13.4	125
3	Study on the construction mechanism of stability lobes in milling process with multiple modes. International Journal of Advanced Manufacturing Technology, 2015, 79, 589-603.	3.0	89
4	Optimization and improvement of stable processing condition by attaching additional masses for milling of thin-walled workpiece. Mechanical Systems and Signal Processing, 2018, 103, 196-215.	8.0	83
5	Study of static and dynamic ploughing mechanisms by establishing generalized model with static milling forces. International Journal of Mechanical Sciences, 2016, 114, 120-131.	6.7	80
6	Numerical Prediction of Static Form Errors in Peripheral Milling of Thin-Walled Workpieces With Irregular Meshes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2005, 127, 13-22.	2.2	71
7	On material separation and cutting force prediction in micro milling through involving the effect of dead metal zone. International Journal of Machine Tools and Manufacture, 2019, 146, 103452.	13.4	71
8	Cutting force modelling in machining of fiber-reinforced polymer matrix composites (PMCs): A review. Composites Part A: Applied Science and Manufacturing, 2019, 117, 34-55.	7.6	71
9	Mechanics and dynamics of thread milling process. International Journal of Machine Tools and Manufacture, 2014, 87, 16-26.	13.4	70
10	Identification of milling process damping using operational modal analysis. International Journal of Machine Tools and Manufacture, 2017, 122, 120-131.	13.4	69
11	Cutting force modeling for flat end milling including bottom edge cutting effect. International Journal of Machine Tools and Manufacture, 2010, 50, 986-997.	13.4	63
12	A unified instantaneous cutting force model for flat end mills with variable geometries. Journal of Materials Processing Technology, 2014, 214, 641-650.	6.3	63
13	A novel cutting force modelling method for cylindrical end mill. Applied Mathematical Modelling, 2010, 34, 823-836.	4.2	60
14	An efficient decomposition-condensation method for chatter prediction in milling large-scale thin-walled structures. Mechanical Systems and Signal Processing, 2019, 121, 58-76.	8.0	60
15	Mechanism of process damping in milling of thin-walled workpiece. International Journal of Machine Tools and Manufacture, 2018, 134, 1-19.	13.4	59
16	Theoretical prediction of machining-induced residual stresses in three-dimensional oblique milling processes. International Journal of Mechanical Sciences, 2017, 133, 426-437.	6.7	57
17	Modeling of machining-induced residual stresses. Journal of Materials Science, 2019, 54, 1-35.	3.7	56
18	Generalized actual inverse kinematic model for compensating geometric errors in five-axis machine tools. International Journal of Mechanical Sciences, 2018, 145, 299-317.	6.7	52

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19	Systematic study on cutting force modelling methods for peripheral milling. International Journal of Machine Tools and Manufacture, 2009, 49, 424-432.	13.4	49
20	A new ternary-mechanism model for the prediction of cutting forces in flat end milling. International Journal of Machine Tools and Manufacture, 2012, 57, 34-45.	13.4	48
21	Identification and compensation of geometric errors of rotary axes in five-axis machine tools through constructing equivalent rotary axis (ERA). International Journal of Mechanical Sciences, 2019, 152, 211-227.	6.7	46
22	On improving chatter stability of thin-wall milling by prestressing. Journal of Materials Processing Technology, 2019, 264, 32-44.	6.3	45
23	A solid trimming method to extract cutter's workpiece engagement maps for multi-axis milling. International Journal of Advanced Manufacturing Technology, 2013, 68, 2801-2813.	3.0	44
24	Design of a tunable mass damper for mitigating vibrations in milling of cylindrical parts. Chinese Journal of Aeronautics, 2019, 32, 748-758.	5.3	43
25	Efficient prediction of varying dynamic characteristics in thin-wall milling using freedom and mode reduction methods. International Journal of Mechanical Sciences, 2019, 150, 202-216.	6.7	42
26	Effect of cutter runout on process geometry and forces in peripheral milling of curved surfaces with variable curvature. International Journal of Machine Tools and Manufacture, 2011, 51, 420-427.	13.4	41
27	FIR filter-based continuous interpolation of G01 commands with bounded axial and tangential kinematics in industrial five-axis machine tools. International Journal of Mechanical Sciences, 2020, 169, 105325.	6.7	40
28	Chatter detection methods in the machining processes: A review. Journal of Manufacturing Processes, 2022, 77, 240-259.	5.9	40
29	Dynamic damping of machining vibration: a review. International Journal of Advanced Manufacturing Technology, 2017, 89, 2935-2952.	3.0	34
30	Analysis and Optimal Design of Fixture Clamping Sequence. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 482-493.	2.2	33
31	Mechanics and Dynamics of Multifunctional Tools. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	32
32	Prediction of chatter stability for multiple-delay milling system under different cutting force models. International Journal of Machine Tools and Manufacture, 2011, 51, 281-295.	13.4	31
33	Singularity avoidance for five-axis machine tools through introducing geometrical constraints. International Journal of Machine Tools and Manufacture, 2018, 127, 1-13.	13.4	31
34	Identification of position independent geometric errors of rotary axes for five-axis machine tools with structural restrictions. Robotics and Computer-Integrated Manufacturing, 2018, 53, 45-57.	9.9	30
35	Working mechanism of helix angle on peak cutting forces together with its design theory for peripheral milling tools. Journal of Materials Processing Technology, 2017, 249, 570-580.	6.3	29
36	Chip Formation Mechanism of Inconel 718: A Review of Models and Approaches. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	29

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37	Generalized method for the analysis of bending, torsional and axial receptances of tool-holder-spindle assembly. <i>International Journal of Machine Tools and Manufacture</i> , 2015, 99, 48-67.	13.4	28
38	Space corner smoothing of CNC machine tools through developing 3D general clothoid. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020, 64, 101949.	9.9	28
39	Chatter analysis and mitigation of milling of the pocket-shaped thin-walled workpieces with viscous fluid. <i>International Journal of Mechanical Sciences</i> , 2021, 194, 106214.	6.7	25
40	Improved inverse filter for the correction of distorted measured cutting forces. <i>International Journal of Mechanical Sciences</i> , 2017, 120, 276-285.	6.7	24
41	Asymmetrical pythagorean-hodograph (PH) spline-based C3 continuous corner smoothing algorithm for five-axis tool paths with short segments. <i>Journal of Manufacturing Processes</i> , 2021, 64, 1387-1411.	5.9	24
42	An improved method for tool point dynamics analysis using a bi-distributed joint interface model. <i>International Journal of Mechanical Sciences</i> , 2016, 105, 239-252.	6.7	23
43	A unified process damping model considering the varying stiffness of the milling system. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 147, 103470.	13.4	23
44	New Cutting Force Modeling Approach for Flat End Mill. <i>Chinese Journal of Aeronautics</i> , 2007, 20, 282-288.	5.3	21
45	Chatter suppression in the milling process of the weakly-rigid workpiece through a moving fixture. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117293.	6.3	21
46	Study on the Correction of Cutting Force Measurement with Table Dynamometer. <i>Procedia CIRP</i> , 2016, 56, 119-123.	1.9	19
47	Dynamics of tapping process. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 140, 34-47.	13.4	17
48	Industry-oriented method for measuring the cutting forces based on the deflections of tool shank. <i>International Journal of Mechanical Sciences</i> , 2017, 130, 315-323.	6.7	16
49	Real-time smoothing of G01 commands for five-axis machining by constructing an entire spline with the bounded smoothing error. <i>Mechanism and Machine Theory</i> , 2021, 161, 104307.	4.5	16
50	A Machining-Dimension-Based Approach to Locating Scheme Design. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	2.2	14
51	Phase width analysis of cutting forces considering bottom edge cutting and cutter runout calibration in flat end milling of titanium alloy. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1852-1863.	6.3	14
52	Mechanics of tapping process with emphasis on measurement of feed error and estimation of its induced indentation forces. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 114, 8-20.	13.4	14
53	Stability analysis of milling process by combining the gyroscopic effect with the symmetry and runout of the cutter. <i>Mechanical Systems and Signal Processing</i> , 2021, 161, 107977.	8.0	13
54	A new method using double distributed joint interface model for three-dimensional dynamics prediction of spindle-holder-tool system. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2729-2745.	3.0	12

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55	A tunable passive damper for suppressing chatters in thin-wall milling by considering the varying modal parameters of the workpiece. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 4605-4616.	3.0	12
56	Suppressing vibrations in milling-trimming process of the plate-like workpiece by optimizing the location of vibration absorber. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116499.	6.3	12
57	Active Damping of Milling Vibration Using Operational Amplifier Circuit. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2018, 31, .	3.7	11
58	A new decoupled tangential contouring control scheme for multi-dimensional motion. <i>Mechanism and Machine Theory</i> , 2020, 151, 103944.	4.5	10
59	Simulation of the chip morphology together with its evolution in machining of Inconel 718 by considering widely spread cutting speed. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 175-195.	3.0	10
60	Stability analysis of the milling process of the thin floor structures. <i>Mechanical Systems and Signal Processing</i> , 2022, 165, 108311.	8.0	9
61	Adaptive feed-forward friction compensation through developing an asymmetrical dynamic friction model. <i>Mechanism and Machine Theory</i> , 2022, 170, 104691.	4.5	9
62	Effect of Cutter Runout on Chatter Stability of Milling Process. <i>Procedia CIRP</i> , 2016, 56, 115-118.	1.9	8
63	Mitigation of chatter in thin-wall milling by using double-side support device. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 213-232.	3.0	8
64	Tool orientation optimization for the five-axis CNC machining to constrain the contour errors without interference. <i>Journal of Manufacturing Processes</i> , 2022, 76, 46-56.	5.9	8
65	Combined Predictive and Feedback Contour Error Control With Dynamic Contour Error Estimation for Industrial Five-Axis Machine Tools. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 6668-6677.	7.9	7
66	On cutting process damping for small cutters by including the influences of the dead metal zone and elastic recovery. <i>Journal of Materials Processing Technology</i> , 2022, 306, 117608.	6.3	7
67	A new error-controllable method for smoothing the G01 commands. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 1756-1771.	5.3	6
68	A New Algorithm for the Identification of CNC Geometric Errors. <i>Procedia CIRP</i> , 2016, 56, 293-298.	1.9	5
69	Chip Thickness Analysis in Peripheral Milling of Curved Surfaces with Variable Curvature Considering Cutter Runout. <i>Materials Science Forum</i> , 0, 697-698, 75-79.	0.3	3
70	A Gaussian process regression-based surrogate model of the varying workpiece dynamics for chatter prediction in milling of thin-walled structures. <i>International Journal of Mechanical System Dynamics</i> , 2022, 2, 117-130.	2.8	3
71	Tool Point Analysis for Bending, Torsional and Axial Receptances of tool-holder-spindle Assembly. <i>Procedia CIRP</i> , 2016, 56, 233-236.	1.9	2
72	Numerical Simulation of Milling Process: A Total Procedure. <i>Materials Science Forum</i> , 2013, 770, 217-220.	0.3	1

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73	Effect of Cutting Conditions on the Stability Lobes for End Milling Process. <i>Advanced Materials Research</i> , 2010, 139-141, 748-751.	0.3	0
74	Determination of optimal geometrical parameters of peripheral mills to achieve good process stability. <i>Advances in Manufacturing</i> , 2018, 6, 259-271.	6.1	0