

Weiguo Gao

List of Publications by Year in descending order

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172
citing authors

#	ARTICLE	IF	CITATIONS
1	Active coolant control onto thermal behaviors of precision ball screw unit. International Journal of Advanced Manufacturing Technology, 2022, 119, 1867-1882.	3.0	2
2	Thermal simulation speculation-based active coolant control onto spindle bearings. International Journal of Advanced Manufacturing Technology, 2021, 113, 337-350.	3.0	2
3	Analytical modelling method for thermal balancing design of machine tool structural components. International Journal of Machine Tools and Manufacture, 2021, 164, 103715.	13.4	23
4	Temperature detection based transient load/boundary condition calculations for spindle thermal simulation. International Journal of Advanced Manufacturing Technology, 2020, 108, 35-46.	3.0	4
5	Novel R-test measurement system to detect thermally induced volumetric accuracy in horizontal machine tools. Measurement Science and Technology, 2020, 31, 125905.	2.6	6
6	An improved machine tool volumetric error compensation method based on linear and squareness error correction method. International Journal of Advanced Manufacturing Technology, 2020, 106, 4731-4744.	3.0	15
7	Influences of linear and angular compensation on volumetric accuracy of precision machine tools. , 2018, , .		2
8	The application of a regularization method to the estimation of geometric errors of a three-axis machine tool using a double ball bar. Journal of Mechanical Science and Technology, 2018, 32, 4871-4881.	1.5	21
9	Active and intelligent control onto thermal behaviors of a motorized spindle unit. International Journal of Advanced Manufacturing Technology, 2018, 98, 3133-3146.	3.0	5
10	Influence of external heat sources on volumetric thermal errors of precision machine tools. International Journal of Advanced Manufacturing Technology, 2018, 99, 475-495.	3.0	11
11	An experimental study on the rotational accuracy of variable preload spindle-bearing system. Advances in Mechanical Engineering, 2018, 10, 168781401877617.	1.6	11
12	Power matching based dissipation strategy onto spindle heat generations. Applied Thermal Engineering, 2017, 113, 499-507.	6.0	27
13	Analytical modeling for thermal errors of motorized spindle unit. International Journal of Machine Tools and Manufacture, 2017, 112, 53-70.	13.4	72
14	Dynamic Optimization of Constrained Layer Damping Structure for the Headstock of Machine Tools with Modal Strain Energy Method. Shock and Vibration, 2017, 2017, 1-13.	0.6	9
15	Branch pipe routing method based on a 3D network and improved genetic algorithm. , 2017, , .		3
16	An adapted NSGA-II approach to the optimization design of oil circuits in a hydraulic manifold block. , 2017, , .		0
17	Ship Pipe Routing Design Using NSGA-II and Coevolutionary Algorithm. Mathematical Problems in Engineering, 2016, 2016, 1-21.	1.1	30
18	Prediction of Dynamic Milling Stability considering Time Variation of Deflection and Dynamic Characteristics in Thin-Walled Component Milling Process. Shock and Vibration, 2016, 2016, 1-14.	0.6	3

#	ARTICLE	IF	CITATIONS
19	A differentiated multi-loops bath recirculation system for precision machine tools. Applied Thermal Engineering, 2015, 76, 54-63.	6.0	37
20	Thermal simulation modeling of a hydrostatic machine feed platform. International Journal of Advanced Manufacturing Technology, 2015, 79, 1581-1595.	3.0	12
21	Transverse vibration analyses of cantilevered boron nitride nanocones. Micro and Nano Letters, 2013, 8, 899-902.	1.3	1
22	An optimized design method of 3-point support for precision horizontal machining center with T-shaped bed. International Journal of Advanced Manufacturing Technology, 0, , .	3.0	0