

Weiguo Gao

List of Publications by Year in descending order

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22
papers

296
citations

933447

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22
all docs

22
docs citations

22
times ranked

172
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical modeling for thermal errors of motorized spindle unit. International Journal of Machine Tools and Manufacture, 2017, 112, 53-70.	13.4	72
2	A differentiated multi-loops bath recirculation system for precision machine tools. Applied Thermal Engineering, 2015, 76, 54-63.	6.0	37
3	Ship Pipe Routing Design Using NSGA-II and Coevolutionary Algorithm. Mathematical Problems in Engineering, 2016, 2016, 1-21.	1.1	30
4	Power matching based dissipation strategy onto spindle heat generations. Applied Thermal Engineering, 2017, 113, 499-507.	6.0	27
5	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
6	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
7	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
8	Thermal simulation modeling of a hydrostatic machine feed platform. International Journal of Advanced Manufacturing Technology, 2015, 79, 1581-1595.	3.0	12
9	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
10	An experimental study on the rotational accuracy of variable preload spindle-bearing system. Advances in Mechanical Engineering, 2018, 10, 168781401877617.	1.6	11
11	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
12	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
13	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
14	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
15	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
16	Branch pipe routing method based on a 3D network and improved genetic algorithm. , 2017, , .		3
17	Influences of linear and angular compensation on volumetric accuracy of precision machine tools. , 2018, , .		2
18	Thermal simulation speculation-based active coolant control onto spindle bearings. International Journal of Advanced Manufacturing Technology, 2021, 113, 337-350.	3.0	2

#	ARTICLE	IF	CITATIONS
19	Active coolant control onto thermal behaviors of precision ball screw unit. International Journal of Advanced Manufacturing Technology, 2022, 119, 1867-1882.	3.0	2
20	Transverse vibration analyses of cantilevered boron nitride nanocones. Micro and Nano Letters, 2013, 8, 899-902.	1.3	1
21	An adapted NSGA-II approach to the optimization design of oil circuits in a hydraulic manifold block. , 2017, , .		0
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