

Wang Zhenzhong

List of Publications by Year in descending order

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30
papers

278
citations

1040056

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940533

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33
all docs

33
docs citations

33
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved semirigid bonnet tool for high-efficiency polishing on large aspheric optics. International Journal of Advanced Manufacturing Technology, 2017, 88, 1607-1617.	3.0	34
2	Highly efficient deterministic polishing using a semirigid bonnet. Optical Engineering, 2014, 53, 095102.	1.0	32
3	Review on polishing technology of small-scale aspheric optics. International Journal of Advanced Manufacturing Technology, 2021, 115, 965-987.	3.0	30
4	Restraint of tool path ripple based on the optimization of tool step size for sub-aperture deterministic polishing. International Journal of Advanced Manufacturing Technology, 2014, 75, 1431-1438.	3.0	26
5	Research on surface topography in ultra-precision flycutting based on the dynamic performance of machine tool spindle. International Journal of Advanced Manufacturing Technology, 2016, 87, 1957-1965.	3.0	18
6	Modeling of material removal in dynamic deterministic polishing. International Journal of Advanced Manufacturing Technology, 2015, 81, 1631-1642.	3.0	16
7	Dynamic performance analysis and quantitative evaluation for ultraprecision aerostatic spindle. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 218-228.	2.4	15
8	Optimization of parameters for bonnet polishing based on the minimum residual error method. Optical Engineering, 2014, 53, 075108.	1.0	12
9	The effect of tool wear on the removal characteristics in high-efficiency bonnet polishing. International Journal of Advanced Manufacturing Technology, 2017, 91, 3653-3662.	3.0	12
10	Rationality optimization of tool path spacing based on dwell time calculation algorithm. International Journal of Advanced Manufacturing Technology, 2016, 84, 2055-2065.	3.0	8
11	Optimization strategy on conformal polishing of precision optics using bonnet tool. International Journal of Precision Engineering and Manufacturing, 2016, 17, 271-280.	2.2	8
12	Influencing mechanism of the key parameters during bonnet polishing process. International Journal of Advanced Manufacturing Technology, 2018, 94, 643-653.	3.0	8
13	Tentative Investigations on Reducing the Edge Effects in Pre-Polishing the Optics. Applied Sciences (Switzerland), 2020, 10, 5286.	2.5	8
14	Research on an optimized machining method for parallel grinding of f_1 optics. International Journal of Advanced Manufacturing Technology, 2015, 80, 1411-1419.	3.0	7
15	Research on optimization of conformal polishing using continuous precession. International Journal of Advanced Manufacturing Technology, 2015, 78, 63-71.	3.0	7
16	Influence of relative difference between paired guide rails on motion accuracy in closed hydrostatic guideways. Journal of Mechanical Science and Technology, 2020, 34, 631-648.	1.5	7
17	Investigation on dynamic performance of ultra-precision flycutting machine tool based on virtual material method. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0, , 095440542199013.	2.4	6
18	Optimization of static performance for robot polishing system based on work stiffness evaluation. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2023, 237, 519-531.	2.4	4

#	ARTICLE	IF	CITATIONS
19	Analysis of Effects of precession mechanism error on polishing spot for bonnet polishing. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 350-357.	2.4	3
20	Simulation, Modeling and Experimental Research on the Thermal Effect of the Motion Error of Hydrostatic Guideways. Micromachines, 2021, 12, 1445.	2.9	3
21	Dressing scheme and process parameters analysis for bonnet tool in bonnet polishing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3569-3578.	2.1	2
22	Investigation on removal features of fixed abrasive diamond pellets based on elasticity tool. International Journal of Advanced Manufacturing Technology, 2017, 91, 537-544.	3.0	2
23	Optimization of magnetic composite fluid polishing process based on response surface method. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2022, 45, 35-41.	1.1	2
24	Research on Self-Aligning Flanges Based on Piezoelectric Actuators Applied to Precision Grinding Machines. Micromachines, 2021, 12, 1393.	2.9	2
25	Experimental study on the reliability and the precision maintenance of the ultra-precision grinding machine based on the key subsystem platforms. International Journal of Advanced Manufacturing Technology, 2023, 124, 3923-3934.	3.0	2
26	Research on optimization method of process parameters for SiC components robotic bonnet polishing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 9763-9772.	2.1	2
27	Movement Modeling and Control for Robotic Bonnet Polishing. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	2
28	Data processing of on-machine measuring in fine grinding for optical lens. , 2011, , .		0
29	Anti-tilting technology of online measurement for large-size optical lens. , 2011, , .		0
30	Sphere precessions polishing method. Optical Engineering, 2021, 60, .	1.0	0