Wang Zhenzhong

List of Publications by Year
in descending order

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30 papers	278 citations	1040056 9 h-index	940533 16 g-index
33 all docs	33 docs citations	33 times ranked	138 citing authors

#	Article	IF	Citations
1	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
2	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
3	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 Hsuch K'an, 2022, 45, 35-41.	1.1	2
4	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
5	Movement Modeling and Control for Robotic Bonnet Polishing. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	2
6	Sphere precessions polishing method. Optical Engineering, 2021, 60, .	1.0	0
7	Review on polishing technology of small-scale aspheric optics. International Journal of Advanced Manufacturing Technology, 2021, 115, 965-987.	3.0	30
8	Research on Self-Aligning Flanges Based on Piezoelectric Actuators Applied to Precision Grinding Machines. Micromachines, 2021, 12, 1393.	2.9	2
9	Simulation, Modeling and Experimental Research on the Thermal Effect of the Motion Error of Hydrostatic Guideways. Micromachines, 2021, 12, 1445.	2.9	3
10	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
11	Tentative Investigations on Reducing the Edge Effects in Pre-Polishing the Optics. Applied Sciences (Switzerland), 2020, 10, 5286.	2.5	8
12	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
13	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
14	Influencing mechanism of the key parameters during bonnet polishing process. International Journal of Advanced Manufacturing Technology, 2018, 94, 643-653.	3.0	8
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	Modeling of material removal in dynamic deterministic polishing. International Journal of Advanced Manufacturing Technology, 2015, 81, 1631-1642.	3.0	16
23	Research on an optimized machining method for parallel grinding of f-Î¸ optics. International Journal of Advanced Manufacturing Technology, 2015, 80, 1411-1419.	3.0	7
24	Research on optimization of conformal polishing using continuous precession. International Journal of Advanced Manufacturing Technology, 2015, 78, 63-71.	3.0	7
25	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
26	Highly efficient deterministic polishing using a semirigid bonnet. Optical Engineering, 2014, 53, 095102.	1.0	32
27	Optimization of parameters for bonnet polishing based on the minimum residual error method. Optical Engineering, 2014, 53, 075108.	1.0	12
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	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