

# Weifeng Yao

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

268  
citations

1163117

8  
h-index

940533

16  
g-index

17  
all docs

17  
docs citations

17  
times ranked

144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution and equivalent control law of surface roughness in shear-thickening polishing. International Journal of Machine Tools and Manufacture, 2016, 108, 113-126.	13.4	71
2	Kinematics and trajectory of both-sides cylindrical lapping process in planetary motion type. International Journal of Machine Tools and Manufacture, 2015, 92, 60-71.	13.4	52
3	A new algorithm of piecewise automated beam search for peak alignment of chromatographic fingerprints. Journal of Chromatography A, 2007, 1160, 254-262.	3.7	35
4	Modeling of material removal based on multi-scale contact in cylindrical polishing. International Journal of Mechanical Sciences, 2022, 223, 107287.	6.7	20
5	Kinematics and trajectory in processing precision balls with eccentric plate and variable-radius V-groove. International Journal of Advanced Manufacturing Technology, 2016, 84, 2167-2178.	3.0	18
6	Trajectory analysis and experiments of both-sides cylindrical lapping in eccentric rotation. International Journal of Advanced Manufacturing Technology, 2017, 88, 2849-2859.	3.0	18
7	An experimental investigation of double-side processing of cylindrical rollers using chemical mechanical polishing technique. International Journal of Advanced Manufacturing Technology, 2016, 82, 523-534.	3.0	15
8	SEM, AFM and TEM Studies for Repeated Irradiation Effect of Femtosecond Laser on 4H-SiC Surface Morphology at Near Threshold Fluence. ECS Journal of Solid State Science and Technology, 2018, 7, P29-P34.	1.8	10
9	Modeling, simulation, and experimental verification on material removal and rounding process of centerless cylindrical finishing with free abrasives and soft pad. International Journal of Advanced Manufacturing Technology, 2021, 114, 1443-1455.	3.0	7
10	Improvement of roundness in centerless finishing of bearing steel rollers by Taguchi method in experiments and simulation. International Journal of Advanced Manufacturing Technology, 2022, 118, 2853-2872.	3.0	6
11	Study of temperature on microstructure and mechanical properties on Fe/Al joint in laser-assisted friction stir welding. AIP Advances, 2018, 8, 075214.	1.3	4
12	Study of Femtosecond Laser Ablation Effect on Micro-Processing for 4H-SiC Substrate. International Journal of Automation Technology, 2018, 12, 187-198.	1.0	4
13	Double-curved disc ultrasonic-assisted lapping of precision-machined crowned rollers. International Journal of Advanced Manufacturing Technology, 2018, 97, 175-188.	3.0	3
14	Establishment of material removal model for lapping ceramic balls with variable-radius groove plate. International Journal of Advanced Manufacturing Technology, 2020, 111, 2577-2587.	3.0	3
15	Experimental investigation on the abrasive wear of AISI 52100 steel. International Journal of Nanomanufacturing, 2018, 14, 65.	0.3	1
16	Experimental study on lapping ceramic balls with variable-radius groove plate. Advances in Mechanical Engineering, 2021, 13, 168781402110334.	1.6	1
17	Design and simulation of ultrasonic horns in ultrasonic vibration machining. International Journal of Nanomanufacturing, 2018, 14, 397.	0.3	0