

Mingyu Liu

List of Publications by Year in descending order

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29
papers

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840776

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docs citations

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times ranked

233
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of laser powder bed fusion surfaces with light scattering and unsupervised machine learning. <i>Measurement Science and Technology</i> , 2022, 33, 074006.	2.6	4
2	Intelligent quality monitoring for additive manufactured surfaces by machine learning and light scattering. , 2021, , .		3
3	On-machine surface defect detection using light scattering and deep learning. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, B53.	1.5	32
4	Cascaded machine learning model for reconstruction of surface topography from light scattering. , 2020, , .		3
5	Optimization of Tool Path for Uniform Scallop-Height in Ultra-precision Grinding of Free-form Surfaces. <i>Nanomanufacturing and Metrology</i> , 2019, 2, 215-224.	3.0	21
6	Diamond machining of freeform-patterned surfaces on precision rollers. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 4423-4431.	3.0	3
7	A fiducial-aided data fusion method for the measurement of multiscale complex surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 1381-1389.	3.0	1
8	Nanoscale measurement with pattern recognition of an ultra-precision diamond machined polar microstructure. <i>Precision Engineering</i> , 2019, 56, 156-163.	3.4	19
9	High-accuracy surface measurement through modelling of the surface transfer function in interference microscopy. , 2019, , .		2
10	Hierarchical-information-based characterization of multiscale structured surfaces. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 539-542.	3.6	10
11	A study of a priori knowledge-assisted multi-scopic metrology for freeform surface measurement. <i>Procedia CIRP</i> , 2018, 75, 337-342.	1.9	0
12	Integrated polar microstructure and template-matching method for optical position measurement. <i>Optics Express</i> , 2018, 26, 4330.	3.4	23
13	Model-based self-optimization method for form correction in the computer controlled bonnet polishing of optical freeform surfaces. <i>Optics Express</i> , 2018, 26, 2065.	3.4	17
14	A self-calibration rotational stitching method for precision measurement of revolving surfaces. <i>Precision Engineering</i> , 2018, 54, 60-69.	3.4	4
15	Fiducial-Aided Robust Positioning of Optical Freeform Surfaces. <i>Micromachines</i> , 2018, 9, 52.	2.9	5
16	Fiducial-aided on-machine positioning method for precision manufacturing of optical freeform surfaces. <i>Optics Express</i> , 2018, 26, 18928.	3.4	9
17	A Gaussian process and image registration based stitching method for high dynamic range measurement of precision surfaces. <i>Precision Engineering</i> , 2017, 50, 99-106.	3.4	18
18	A novel multi-jet polishing process and tool for high-efficiency polishing. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 115, 60-73.	13.4	93

#	ARTICLE	IF	CITATIONS
19	Numerical modeling and experimentation of three dimensional material removal characteristics in fluid jet polishing. International Journal of Mechanical Sciences, 2017, 133, 568-577.	6.7	36
20	Theoretical and experimental investigation of surface generation in swing precess bonnet polishing of complex three-dimensional structured surfaces. Precision Engineering, 2017, 50, 361-371.	3.4	21
21	A weighted least square based data fusion method for precision measurement of freeform surfaces. Precision Engineering, 2017, 48, 144-151.	3.4	10
22	Fluid jet-array parallel machining of optical microstructure array surfaces. Optics Express, 2017, 25, 22710.	3.4	20
23	Fluid jet-array parallel machining of optical microstructure array surfaces: publisher's note. Optics Express, 2017, 25, 23387.	3.4	2
24	Modeling and Simulation of a Machining Process Chain for the Precision Manufacture of Polar Microstructure. Micromachines, 2017, 8, 345.	2.9	12
25	A Gaussian Process Data Modelling and Maximum Likelihood Data Fusion Method for Multi-Sensor CMM Measurement of Freeform Surfaces. Applied Sciences (Switzerland), 2016, 6, 409.	2.5	10
26	An autonomous multisensor <i>in situ</i> metrology system for enabling high dynamic range measurement of 3D surfaces on precision machine tools. Measurement Science and Technology, 2016, 27, 115015.	2.6	3
27	Estimation of measurement uncertainty caused by surface gradient for a white light interferometer. Applied Optics, 2015, 54, 8670.	2.1	20
28	A Study of Tool Path Generation for Machining of Precision Roller with Wavy Patterned Microstructures by Slow Tool Servo. Key Engineering Materials, 0, 679, 191-197.	0.4	0
29	A Framework of Data Fusion Algorithm for Precision Measurement of Multiscale Surfaces. Key Engineering Materials, 0, 679, 155-161.	0.4	0