

Changcai Cui

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

459
citations

840776

11
h-index

752698

20
g-index

47
all docs

47
docs citations

47
times ranked

299
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-grooving of brittle materials using textured diamond grinding wheels shaped by an integrated nanosecond laser system. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 5389-5399.	3.0	4
2	Non-resonant piezoelectric linear motor with alternating normal contact force. <i>Review of Scientific Instruments</i> , 2022, 93, 025007.	1.3	1
3	Mueller Matrix Ellipsometric Characterization of Nanoscale Subsurface Damage of 4H-SiC Wafers: From Grinding to CMP. <i>Frontiers in Physics</i> , 2022, 9, .	2.1	1
4	Measurement and simulation calculation of wire bow angle during the diamond wire saw process. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 7197-7204.	3.0	3
5	Data-Driven Modeling and Prediction Analysis for Surface Roughness of Special-Shaped Stone by Robotic Grinding. <i>IEEE Access</i> , 2022, 10, 67615-67629.	4.2	1
6	Automated screening of COVID-19 using two-dimensional variational mode decomposition and locally linear embedding. <i>Biomedical Signal Processing and Control</i> , 2022, , 103889.	5.7	3
7	Brazing diamond grits onto AA7075 aluminium alloy substrate with Ag-Cu-Ti filler alloy by laser heating. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 67-78.	5.3	21
8	Characterisation of diamond abrasive grains of grinding tools using industrial X-ray computed tomography. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 25-40.	3.0	1
9	A Straightness Error Compensation System for Topography Measurement Based on Thin Film Interferometry. <i>Photonics</i> , 2021, 8, 149.	2.0	4
10	Biomachining properties of various metals by microorganisms. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116512.	6.3	9
11	A new strategy for measuring the grain height uniformity of a grinding wheel. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107250.	5.0	3
12	Longitudinal Composite-Mode Linear Ultrasonic Motor for Motion Servo System of Probe Station. <i>Actuators</i> , 2020, 9, 111.	2.3	3
13	A review of characterization of perovskite film in solar cells by spectroscopic ellipsometry. <i>Solar Energy</i> , 2020, 212, 48-61.	6.1	23
14	Double-sided and single-sided polished 6H-SiC wafers with subsurface damage layer studied by Mueller matrix ellipsometry. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	8
15	Optical functional film with triangular pyramidal texture for Crystalline silicon solar cells. <i>Solar Energy</i> , 2020, 201, 45-54.	6.1	6
16	Study on the enhancement of sol-gel properties by binary compounding technology for dry polishing hard and brittle materials. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 96, 314-326.	2.4	4
17	Model-free determination of the birefringence and dichroism in c-cut crystals from transmission ellipsometry measurements. <i>Applied Optics</i> , 2020, 59, 2192.	1.8	6
18	Numerical and experimental studies on the grinding of cemented carbide with textured monolayer diamond wheels. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 84, 105022.	3.8	10

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19	Study on the surface quality of marble tiles polished with Sol-Gel derived pads. Journal of Sol-Gel Science and Technology, 2019, 91, 485-495.	2.4	6
20	Characterization of grain geometrical features for monolayer brazed grinding wheels based on grain cross-sections. International Journal of Advanced Manufacturing Technology, 2019, 105, 1425-1436.	3.0	2
21	A new uniformity coefficient parameter for the quantitative characterization of a textured wafer surface and its relationship with the photovoltaic conversion efficiency of monocrystalline silicon cells. Solar Energy, 2019, 191, 210-218.	6.1	8
22	Numerical Analysis of the Effects of Pulsed Laser Spot Heating Parameters on Brazing of Diamond Tools. Metals, 2019, 9, 612.	2.3	9
23	Investigation of grinding mechanism of a 2D Cf/Câ€“SiC composite by single-grain scratching. Ceramics International, 2019, 45, 13422-13430.	4.8	26
24	Linear Piezoelectric Motor for Topography Detector of Diamond Wire. IEEE Access, 2019, 7, 166975-166983.	4.2	1
25	Z-axis compensation analysis of vertical scanning white light interferometry system in horizontal moving. , 2019, , .		0
26	Identification and classification of surface defects in polycrystalline diamond compact. , 2019, , .		0
27	Influence of grinding fiber angles on grinding of the 2Dâ€“Cf /Câ€“SiC composites. Ceramics International, 2018, 44, 12774-12782.	4.8	47
28	Calibration of a Chromatic Confocal Microscope for Measuring a Colored Specimen. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	2
29	Method of thickness measurement for transparent specimens with chromatic confocal microscopy. Applied Optics, 2018, 57, 9722.	1.8	32
30	A study on the surface grinding of 2D C/SiC composites. International Journal of Advanced Manufacturing Technology, 2017, 93, 1595-1603.	3.0	38
31	Experimental investigations on grinding characteristics and removal mechanisms of 2Dâ€“Cf/C-SiC composites based on reinforced fiber orientations. Ceramics International, 2017, 43, 15266-15274.	4.8	50
32	The application of 3D-motif analysis to characterize diamond grinding wheel topography. Measurement: Journal of the International Measurement Confederation, 2016, 77, 73-79.	5.0	22
33	The Assessment of Straightness and Flatness Errors Using Particle Swarm Optimization. Procedia CIRP, 2013, 10, 271-275.	1.9	13
34	Extraction of the grains topography from grinding wheels. Measurement: Journal of the International Measurement Confederation, 2013, 46, 484-490.	5.0	14
35	Three-dimensional measurement and characterization of grinding tool topography. , 2013, , .		0
36	Grain edge detection of diamond grinding wheel. Proceedings of SPIE, 2013, , .	0.8	0

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37	Self-adaptive grain recognition of diamond grinding wheel and its grains assessment. Proceedings of SPIE, 2013, , .	0.8	0
38	Data processing of vertical scanning white-light interferometry based on particle swarm optimization. , 2013, , .		0
39	Stitching for a large area of surface topography analysis of diamond grinding wheel. , 2013, , .		3
40	An iterative neighborhood search approach for minimum zone circularity evaluation from coordinate measuring machine data. Measurement Science and Technology, 2010, 21, 027001.	2.6	8
41	Research on the uncertainties from different form error evaluation methods by CMM sampling. International Journal of Advanced Manufacturing Technology, 2009, 43, 136-145.	3.0	25
42	Quality evaluation and optimization of freeform surface. Proceedings of SPIE, 2008, , .	0.8	0
43	An auto-focusing system for white light microscopic measurement. Proceedings of SPIE, 2008, , .	0.8	3
44	Study on the Uncertainties of Form Errors Evaluation Under the New GPS Framework. , 2008, , 589-599.		0
45	Genetic algorithm-based form error evaluation. Measurement Science and Technology, 2007, 18, 1818-1822.	2.6	38
46	Research on the key techniques of form and position evaluation based on the genetic algorithm. , 2006, , .		0
47	The assessing method of complete tooth form error based on the spline function. , 2006, 6280, 564.		1