

Changcai Cui

List of Publications by Year in descending order

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47
papers

459
citations

840776

11
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47
docs citations

47
times ranked

299
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigations on grinding characteristics and removal mechanisms of 2D C _f /C-SiC composites based on reinforced fiber orientations. <i>Ceramics International</i> , 2017, 43, 15266-15274.	4.8	50
2	Influence of grinding fiber angles on grinding of the 2D C _f /C-SiC composites. <i>Ceramics International</i> , 2018, 44, 12774-12782.	4.8	47
3	Genetic algorithm-based form error evaluation. <i>Measurement Science and Technology</i> , 2007, 18, 1818-1822.	2.6	38
4	A study on the surface grinding of 2D C/SiC composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1595-1603.	3.0	38
5	Method of thickness measurement for transparent specimens with chromatic confocal microscopy. <i>Applied Optics</i> , 2018, 57, 9722.	1.8	32
6	Investigation of grinding mechanism of a 2D C _f /C-SiC composite by single-grain scratching. <i>Ceramics International</i> , 2019, 45, 13422-13430.	4.8	26
7	Research on the uncertainties from different form error evaluation methods by CMM sampling. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 43, 136-145.	3.0	25
8	A review of characterization of perovskite film in solar cells by spectroscopic ellipsometry. <i>Solar Energy</i> , 2020, 212, 48-61.	6.1	23
9	The application of 3D-motif analysis to characterize diamond grinding wheel topography. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 77, 73-79.	5.0	22
10	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
11	Extraction of the grains topography from grinding wheels. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 484-490.	5.0	14
12	The Assessment of Straightness and Flatness Errors Using Particle Swarm Optimization. <i>Procedia CIRP</i> , 2013, 10, 271-275.	1.9	13
13	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
14	Numerical Analysis of the Effects of Pulsed Laser Spot Heating Parameters on Brazing of Diamond Tools. <i>Metals</i> , 2019, 9, 612.	2.3	9
15	Biomachining properties of various metals by microorganisms. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116512.	6.3	9
16	An iterative neighborhood search approach for minimum zone circularity evaluation from coordinate measuring machine data. <i>Measurement Science and Technology</i> , 2010, 21, 027001.	2.6	8
17	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. <i>Solar Energy</i> , 2019, 191, 210-218.	6.1	8
18	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

#	ARTICLE	IF	CITATIONS
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	Optical functional film with triangular pyramidal texture for Crystalline silicon solar cells. Solar Energy, 2020, 201, 45-54.	6.1	6
21	Model-free determination of the birefringence and dichroism in c-cut crystals from transmission ellipsometry measurements. Applied Optics, 2020, 59, 2192.	1.8	6
22	Study on the enhancement of sol-gel properties by binary compounding technology for dry polishing hard and brittle materials. Journal of Sol-Gel Science and Technology, 2020, 96, 314-326.	2.4	4
23	A Straightness Error Compensation System for Topography Measurement Based on Thin Film Interferometry. Photonics, 2021, 8, 149.	2.0	4
24	Micro-grooving of brittle materials using textured diamond grinding wheels shaped by an integrated nanosecond laser system. International Journal of Advanced Manufacturing Technology, 2022, 119, 5389-5399.	3.0	4
25	An auto-focusing system for white light microscopic measurement. Proceedings of SPIE, 2008, , .	0.8	3
26	Stitching for a large area of surface topography analysis of diamond grinding wheel. , 2013, , .		3
27	A new strategy for measuring the grain height uniformity of a grinding wheel. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107250.	5.0	3
28	Longitudinal Composite-Mode Linear Ultrasonic Motor for Motion Servo System of Probe Station. Actuators, 2020, 9, 111.	2.3	3
29	Measurement and simulation calculation of wire bow angle during the diamond wire saw process. International Journal of Advanced Manufacturing Technology, 2022, 120, 7197-7204.	3.0	3
30	Automated screening of COVID-19 using two-dimensional variational mode decomposition and locally linear embedding. Biomedical Signal Processing and Control, 2022, , 103889.	5.7	3
31	Calibration of a Chromatic Confocal Microscope for Measuring a Colored Specimen. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	2
32	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
33	The assessing method of complete tooth form error based on the spline function. , 2006, 6280, 564.		1
34	Linear Piezoelectric Motor for Topography Detector of Diamond Wire. IEEE Access, 2019, 7, 166975-166983.	4.2	1
35	Characterisation of diamond abrasive grains of grinding tools using industrial X-ray computed tomography. International Journal of Advanced Manufacturing Technology, 2021, 112, 25-40.	3.0	1
36	Non-resonant piezoelectric linear motor with alternating normal contact force. Review of Scientific Instruments, 2022, 93, 025007.	1.3	1

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37	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
38	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
39	Research on the key techniques of form and position evaluation based on the genetic algorithm. , 2006, , .		0
40	Quality evaluation and optimization of freeform surface. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
41	Three-dimensional measurement and characterization of grinding tool topography. , 2013, , .		0
42	Grain edge detection of diamond grinding wheel. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
43	Self-adaptive grain recognition of diamond grinding wheel and its grains assessment. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
44	Data processing of vertical scanning white-light interferometry based on particle swarm optimization. , 2013, , .		0
45	Z-axis compensation analysis of vertical scanning white light interferometry system in horizontal moving. , 2019, , .		0
46	Identification and classification of surface defects in polycrystalline diamond compact. , 2019, , .		0
47	Study on the Uncertainties of Form Errors Evaluation Under the New GPS Framework. , 2008, , 589-599.		0