

# Wei Gao

## List of Publications by Year in descending order

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262  
papers

4,550  
citations

101384

36  
h-index

133063

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g-index

264  
all docs

264  
docs citations

264  
times ranked

1483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Subspace clustering for panel data with interactive effects. Canadian Journal of Statistics, 2022, 50, 867-887.	0.6	0
2	Theoretical Investigation for Angle Measurement Based on Femtosecond Maker Fringe. Applied Sciences (Switzerland), 2022, 12, 3702.	1.3	4
3	A New Optical Configuration for the Surface Encoder with an Expanded Z-Directional Measuring Range. Sensors, 2022, 22, 3010.	2.1	3
4	Influence of Surface Tilt Angle on a Chromatic Confocal Probe with a Femtosecond Laser. Applied Sciences (Switzerland), 2022, 12, 4736.	1.3	3
5	A new method for evaluation of the pitch deviation of a linear scale grating by an optical angle sensor. Precision Engineering, 2021, 67, 1-13.	1.8	16
6	Measurement of the apex angle of a small prism by an oblique-incidence mode-locked femtosecond laser autocollimator. Precision Engineering, 2021, 67, 339-349.	1.8	4
7	An absolute surface encoder with a planar scale grating of variable periods. Precision Engineering, 2021, 67, 36-47.	1.8	15
8	Micro-gear measuring machine. , 2021, , 189-224.		0
9	Quartz tuning fork atomic force microscope. , 2021, , 41-79.		0
10	Self-calibration of probe tip radius and cutting edge sharpness. , 2021, , 405-427.		0
11	In-process fast tool servo profiler. , 2021, , 371-403.		1
12	Scalability of precision design principles for machines and instruments. CIRP Annals - Manufacturing Technology, 2021, 70, 659-680.	1.7	2
13	Low-force elastic beam surface profiler. , 2021, , 121-154.		0
14	On-machine length gauge surface profiler. , 2021, , 225-269.		0
15	Linear-scan micro roundness measuring machine. , 2021, , 155-187.		0
16	On-machine roll profiler. , 2021, , 337-370.		0
17	On-machine air-bearing surface profiler. , 2021, , 271-304.		0
18	An Optical Frequency Domain Angle Measurement Method Based on Second Harmonic Generation. Sensors, 2021, 21, 670.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Micropipette ball probing system. , 2021, , 81-119.		0
20	A technique for measurement of a prism apex angle by optical angle sensors with a reference artefact. Measurement Science and Technology, 2021, 32, 054007.	1.4	5
21	Self-calibration of a variable-line-spacing grating for an absolute optical encoder with a Fizeau interferometer. Measurement Science and Technology, 2021, 32, 064005.	1.4	6
22	Improvement of a Stitching Operation in the Stitching Linear-Scan Method for Measurement of Cylinders in a Small Dimension. Applied Sciences (Switzerland), 2021, 11, 4705.	1.3	1
23	Measurement Range Expansion of Chromatic Confocal Probe with Supercontinuum Light Source. International Journal of Automation Technology, 2021, 15, 529-536.	0.5	5
24	In-Situ Evaluation of the Pitch of a Reflective-Type Scale Grating by Using a Mode-Locked Femtosecond Laser. Applied Sciences (Switzerland), 2021, 11, 8028.	1.3	5
25	An application of the edge reversal method for accurate reconstruction of the three-dimensional profile of a single-point diamond tool obtained by an atomic force microscope. International Journal of Advanced Manufacturing Technology, 2021, 117, 2883-2893.	1.5	6
26	Closed-Loop Control of an XYZ Micro-Stage and Designing of Mechanical Structure for Reduction in Motion Errors. Nanomanufacturing and Metrology, 2021, 4, 53-66.	1.5	10
27	Noncontact scanning electrostatic force microscope. , 2021, , 1-39.		0
28	On-machine atomic force microscope. , 2021, , 305-336.		0
29	A Comparison of the Probes with a Cantilever Beam and a Double-Sided Beam in the Tool Edge Profiler for On-Machine Measurement of a Precision Cutting Tool. Machines, 2021, 9, 271.	1.2	0
30	A Self-Calibration Stitching Method for Pitch Deviation Evaluation of a Long-Range Linear Scale by Using a Fizeau Interferometer. Sensors, 2021, 21, 7412.	2.1	5
31	High-Precision Cutting Edge Radius Measurement of Single Point Diamond Tools Using an Atomic Force Microscope and a Reverse Cutting Edge Artifact. Applied Sciences (Switzerland), 2020, 10, 4799.	1.3	9
32	Measurement Uncertainty Analysis of a Stitching Linear-Scan Method for the Evaluation of Roundness of Small Cylinders. Applied Sciences (Switzerland), 2020, 10, 4750.	1.3	9
33	Design and Construction of a Low-Force Stylus Probe for On-machine Tool Cutting Edge Measurement. Nanomanufacturing and Metrology, 2020, 3, 282-291.	1.5	8
34	An Off-Axis Differential Method for Improvement of a Femtosecond Laser Differential Chromatic Confocal Probe. Applied Sciences (Switzerland), 2020, 10, 7235.	1.3	7
35	On-machine angle measurement of a precision V-groove on a ceramic workpiece. CIRP Annals - Manufacturing Technology, 2020, 69, 469-472.	1.7	7
36	A differential strategy for measurement of a static force in a single-point diamond cutting by a force-controlled fast tool servo. Measurement Science and Technology, 2020, 31, 074014.	1.4	4

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37	Optical Angle Sensor Technology Based on the Optical Frequency Comb Laser. Applied Sciences (Switzerland), 2020, 10, 4047.	1.3	25
38	Evaluation of the pitch deviation of a linear scale based on a self-calibration method with a Fizeau interferometer. Measurement Science and Technology, 2020, 31, 094002.	1.4	12
39	On-machine profile measurement of a micro cutting edge by using a contact-type compact probe unit. Precision Engineering, 2020, 65, 230-239.	1.8	7
40	A new signal processing method for a differential chromatic confocal probe with a mode-locked femtosecond laser. Measurement Science and Technology, 2020, 31, 094004.	1.4	13
41	Fabrication of a Two-Dimensional Diffraction Grating with Isolated Photoresist Pattern Structures. International Journal of Automation Technology, 2020, 14, 546-551.	0.5	2
42	Design optimization of a non-orthogonal two-axis Lloyd's mirror interferometer for fabrication of large-area two-dimensional scale gratings. Precision Engineering, 2019, 60, 280-290.	1.8	11
43	Efficient computational algorithm for optimal continuous experimental designs. Journal of Computational and Applied Mathematics, 2019, 350, 98-113.	1.1	5
44	A Design Study of a Heat Flow-Type Reading Head for a Linear Encoder Based on a Micro Thermal Sensor. Nanomanufacturing and Metrology, 2019, 2, 100-110.	1.5	3
45	Reduction in Cross-Talk Errors in a Six-Degree-of-Freedom Surface Encoder. Nanomanufacturing and Metrology, 2019, 2, 111-123.	1.5	26
46	Integration of a Cr <sup>4+</sup> Thin-Film Displacement Sensor into an XY Micro-stage for Closed-Loop Nano-positioning. Nanomanufacturing and Metrology, 2019, 2, 131-139.	1.5	12
47	A Method for Expansion of Z-Directional Measurement Range in a Mode-Locked Femtosecond Laser Chromatic Confocal Probe. Applied Sciences (Switzerland), 2019, 9, 454.	1.3	11
48	Investigation and Improvement of Thermal Stability of a Chromatic Confocal Probe with a Mode-Locked Femtosecond Laser Source. Applied Sciences (Switzerland), 2019, 9, 4084.	1.3	7
49	A New Optical Angle Measurement Method Based on Second Harmonic Generation with a Mode-Locked Femtosecond Laser. Nanomanufacturing and Metrology, 2019, 2, 187-198.	1.5	26
50	Optical Sensors for Multi-Axis Angle and Displacement Measurement Using Grating Reflectors. Sensors, 2019, 19, 5289.	2.1	36
51	Estimation of treatment effects for heterogeneous matched-pairs data with probit models. Scandinavian Journal of Statistics, 2019, 46, 575-594.	0.9	0
52	Accurate polarization control in nonorthogonal two-axis Lloyd's mirror interferometer for fabrication of two-dimensional scale gratings. Optical Engineering, 2019, 58, 1.	0.5	5
53	Precision Positioning. , 2019, , 1342-1349.		0
54	Ultra-Precision Micro-Fabrication and Measurement by Using a Multi-Functional Fast Tool Servo FS-FTS. Journal of the Japan Society for Precision Engineering, 2019, 85, 613-617.	0.0	0

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55	A chromatic confocal probe with a mode-locked femtosecond laser source. Optics and Laser Technology, 2018, 103, 359-366.	2.2	27
56	A stitching linear-scan method for roundness measurement of small cylinders. CIRP Annals - Manufacturing Technology, 2018, 67, 535-538.	1.7	18
57	An ultra-precision tool nanoindentation instrument for replication of single point diamond tool cutting edges. Measurement Science and Technology, 2018, 29, 054004.	1.4	14
58	Design and testing of a compact non-orthogonal two-axis Lloyd's mirror interferometer for fabrication of large-area two-dimensional scale gratings. Precision Engineering, 2018, 52, 138-151.	1.8	20
59	Design and Testing of a Micro-thermal Sensor Probe for Nondestructive Detection of Defects on a Flat Surface. Nanomanufacturing and Metrology, 2018, 1, 45-57.	1.5	10
60	Molecular dynamics simulation of elasticâ€“plastic deformation associated with toolâ€“workpiece contact in force sensorâ€“integrated fast tool servo. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1893-1902.	1.5	8
61	A Profile Likelihood Approach for Longitudinal Data Analysis. Biometrics, 2018, 74, 220-228.	0.8	5
62	Inhibition of aluminum dust explosion by NaHCO <sub>3</sub> with different particle size distributions. Journal of Hazardous Materials, 2018, 344, 902-912.	6.5	108
63	Fast evaluation of a linear scale for a linear encoder with a Fizeau interferometer and stitching technique. , 2018, , .		1
64	Uncertainty Evaluation for Measurements of Pitch Deviation and Out-of-Flatness of Planar Scale Gratings by a Fizeau Interferometer in Littrow Configuration. Applied Sciences (Switzerland), 2018, 8, 2539.	1.3	9
65	An ultra-sensitive optical angle sensor for pitch deviation measurement of diffraction gratings. , 2018, , .		1
66	Evaluation of the grating period based on laser diffraction by using a mode-locked femtosecond laser beam. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0097-JAMDSM0097.	0.3	5
67	An optical angle sensor based on chromatic dispersion with a mode-locked laser source. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0096-JAMDSM0096.	0.3	6
68	Development of a fiber-laser-based frequency comb for precision dimensional metrology. , 2018, , .		0
69	Angle measurement using a diffraction of optical frequency comb. , 2018, , .		0
70	Theoretical calculation of the reading output from a micro thermal sensors for precision positioning. , 2018, , .		0
71	Measurement and uncertainty analysis of a precision V-shaped ceramic part. , 2018, , .		1
72	Theoretical investigation on measurement range of a femtosecond laser chromatic confocal probe by utilizing side-lobe of axial response. , 2018, , .		0

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73	An optical frequency comb operating in the mid-infrared region for wide-range and high-precision optical sensor. , 2018, , .		0
74	Uncertainty analysis of a six-degree-of-freedom surface encoder for a planar motion stage. Procedia CIRP, 2018, 75, 355-360.	1.0	1
75	Crosstalk error analysis of a multi-degree-of-freedom surface encoder for a planar motion stage. , 2018, , .		0
76	High Resolution Clinometers for Measurement of Roll Error Motion of a Precision Linear Slide. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	1.9	5
77	A compact two-axis Lloyd's mirror interferometer for scale grating fabrication. , 2018, , .		0
78	A Liquid-Surface-Based Three-Axis Inclination Sensor for Measurement of Stage Tilt Motions. Sensors, 2018, 18, 398.	2.1	14
79	Generalized method for probing ideal initial polarization states in multibeam Lloyd's mirror interference lithography of 2D scale gratings. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 021601.	0.6	8
80	A PD-edge method associated with the laser autocollimation for measurement of a focused laser beam diameter. Measurement Science and Technology, 2018, 29, 074006.	1.4	1
81	Laser autocollimation based on an optical frequency comb for absolute angular position measurement. Precision Engineering, 2018, 54, 284-293.	1.8	27
82	Error Separation Method for Precision Measurement of the Run-Out of a Microdrill Bit by Using a Laser Scan Micrometer Measurement System. Journal of Manufacturing and Materials Processing, 2018, 2, 4.	1.0	27
83	High quality-factor quartz tuning fork glass probe used in tapping mode atomic force microscopy for surface profile measurement. Measurement Science and Technology, 2018, 29, 065014.	1.4	6
84	Precision Positioning. , 2018, , 1-8.		0
85	Angle Measurement by Using Optical Frequency Comb. Journal of the Japan Society for Precision Engineering, 2018, 84, 696-700.	0.0	0
86	Equivalent homogeneous model of D31-mode longitudinal piezoelectric transducers. Journal of Intelligent Material Systems and Structures, 2017, 28, 2651-2658.	1.4	7
87	Precision measurement of Z-slide vertical error motion of an ultra-precision lathe by using three-probe method. International Journal of Precision Engineering and Manufacturing, 2017, 18, 651-660.	1.1	8
88	Auto-tracking single point diamond cutting on non-planar brittle material substrates by a high-rigidity force controlled fast tool servo. Precision Engineering, 2017, 49, 253-261.	1.8	35
89	Implementation and verification of a four-probe motion error measurement system for a large-scale roll lathe used in hybrid manufacturing. Measurement Science and Technology, 2017, 28, 105004.	1.4	14
90	An edge reversal method for precision measurement of cutting edge radius of single point diamond tools. Precision Engineering, 2017, 50, 380-387.	1.8	24

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91	An optical lever by using a mode-locked laser for angle measurement. Precision Engineering, 2017, 47, 72-80.	1.8	27
92	Optical frequency domain angle measurement in a femtosecond laser autocollimator. Optics Express, 2017, 25, 16725.	1.7	53
93	Self-calibration of Fizeau interferometer and planar scale gratings in Littrow setup. Optics Express, 2017, 25, 21567.	1.7	10
94	Optimal polarization modulation for orthogonal two-axis Lloyd's mirror interference lithography. Optics Express, 2017, 25, 22237.	1.7	18
95	Design and Testing of a Micro Thermal Sensor for Non-Contact Surface Defect Detection. International Journal of Automation Technology, 2017, 11, 781-786.	0.5	5
96	A Micro-Coordinate Measurement Machine (CMM) for Large-Scale Dimensional Measurement of Micro-Slits. Applied Sciences (Switzerland), 2016, 6, 156.	1.3	19
97	Influences of misalignment errors of optical components in an orthogonal two-axis Lloyd's mirror interferometer. Optics Express, 2016, 24, 27521.	1.7	19
98	Mode-locked laser autocollimator with an expanded measurement range. Optics Express, 2016, 24, 15554.	1.7	37
99	Ductile cutting of silicon microstructures with surface inclination measurement and compensation by using a force sensor integrated single point diamond tool. Journal of Micromechanics and Microengineering, 2016, 26, 025002.	1.5	28
100	Determination of the zero-position for an optical angle sensor. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0072-JAMDSM0072.	0.3	6
101	Investigation on the three-dimensional light intensity distribution of the fringe patterns generated by a modified two-axis Lloyd's mirror interferometer. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0080-JAMDSM0080.	0.3	2
102	On-line qualification of a micro probing system for precision length measurement of micro-features on precision parts. Measurement Science and Technology, 2016, 27, 074008.	1.4	7
103	Nanometrology of an ultraprecision machined surface by using optical sensors. , 2016, , .		0
104	Micro thermal sensor for nanometric surface defect inspection. , 2016, , .		1
105	Molecular dynamics simulation of form measurement process of soft materials using atomic force microscope. , 2016, , .		0
106	Ultra-sensitive angle sensor based on laser autocollimation for measurement of stage tilt motions. Optics Express, 2016, 24, 2788.	1.7	39
107	A highly stable noncontact SPM for surface profile measurement and its application to insulating samples. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0081-JAMDSM0081.	0.3	2
108	New Encoder Technologies. Journal of the Japan Society for Precision Engineering, 2016, 82, 773-777.	0.0	0

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109	Analysis of a Lloyd's mirror interferometer for fabrication of gratings. , 2016, , .		2
110	Design and testing of an optical configuration for multi-dimensional measurement of a diamond cutting tool. Measurement: Journal of the International Measurement Confederation, 2016, 94, 934-941.	2.5	7
111	Uncertainty analysis of slot die coater gap width measurement by using a shear mode micro-probing system. Precision Engineering, 2016, 43, 525-529.	1.8	16
112	Molecular dynamics simulation of subnanometric tool-workpiece contact on a force sensor-integrated fast tool servo for ultra-precision microcutting. Applied Surface Science, 2016, 369, 354-365.	3.1	14
113	On-machine measurement of microtool wear and cutting edge chipping by using a diamond edge artifact. Precision Engineering, 2016, 43, 462-467.	1.8	30
114	Fabrication of two-dimensional micro patterns for adaptive optics by using laser interference lithography. , 2015, , .		0
115	Measurement technologies for precision positioning. CIRP Annals - Manufacturing Technology, 2015, 64, 773-796.	1.7	397
116	Self-evaluation of the cutting edge contour of a microdiamond tool with a force sensor integrated fast tool servo on an ultra-precision lathe. International Journal of Advanced Manufacturing Technology, 2015, 77, 2257-2267.	1.5	18
117	Design of a laser autocollimator-based optical sensor with a rangefinder for error correction of precision slide guideways. International Journal of Precision Engineering and Manufacturing, 2015, 16, 423-431.	1.1	13
118	Pitch deviation measurement of an involute spur gear by a rotary profiling system. Precision Engineering, 2015, 39, 152-160.	1.8	16
119	An in-process measurement method for repair of defective microstructures by using a fast tool servo with a force sensor. Precision Engineering, 2015, 39, 134-142.	1.8	51
120	Investigation on Sensitivity of a Contact-Type Thermal Sensor for Surface Defect Inspections. International Journal of Automation Technology, 2015, 9, 291-296.	0.5	3
121	Feasibility study on the concept of thermal contact sensor for nanometre-level defect inspections on smooth surfaces. Measurement Science and Technology, 2014, 25, 064006.	1.4	13
122	Development of a probing system for a micro-coordinate measuring machine by utilizing shear-force detection. Measurement Science and Technology, 2014, 25, 064011.	1.4	16
123	A measurement method of cutting tool position for relay fabrication of microstructured surface. Measurement Science and Technology, 2014, 25, 064018.	1.4	19
124	ASPEN 2013 (Taipei). Measurement Science and Technology, 2014, 25, 090301.	1.4	0
125	Measurement of six-degree-of-freedom planar motions by using a multiprobe surface encoder. Optical Engineering, 2014, 53, 122405.	0.5	23
126	Three-axis vibration measurement by using a grating-interferometric vibrometer. Advanced Optical Technologies, 2014, 3, 435-440.	0.9	2



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127	Efficient computational algorithm for optimal allocation in regression models. Journal of Computational and Applied Mathematics, 2014, 261, 118-126.	1.1	7
128	Precision evaluation of surface form error of a large-scale roll workpiece on a drum roll lathe. Precision Engineering, 2014, 38, 839-848.	1.8	20
129	Self-calibration and compensation of setting errors for surface profile measurement of a microstructured roll workpiece. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 14-22.	1.9	7
130	A two-axis Lloyd's mirror interferometer for fabrication of two-dimensional diffraction gratings. CIRP Annals - Manufacturing Technology, 2014, 63, 461-464.	1.7	48
131	Design and testing of a four-probe optical sensor head for three-axis surface encoder with a mosaic scale grating. Measurement Science and Technology, 2014, 25, 094002.	1.4	22
132	Drift reduction in a scanning electrostatic force microscope for surface profile measurement. Measurement Science and Technology, 2014, 25, 094001.	1.4	4
133	Role of surfaces and interfaces in solar cell manufacturing. CIRP Annals - Manufacturing Technology, 2014, 63, 797-819.	1.7	28
134	A Cr-N thin film displacement sensor for precision positioning of a micro-stage. Sensors and Actuators A: Physical, 2014, 211, 89-97.	2.0	22
135	An improved scan mode in an electrostatic force microscope for surface profile measurement of micro-optics. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2014, 8, JAMDSM0051-JAMDSM0051.	0.3	4
136	Design of fabrication process of a thermal contact sensor for surface defect inspection. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2014, 8, JAMDSM0052-JAMDSM0052.	0.3	5
137	On-machine form measurement of high precision ceramics parts by using a laser displacement sensor. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2014, 8, JAMDSM0048-JAMDSM0048.	0.3	11
138	Measurement of contact potential difference and material distribution by using an SEFM. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2014, 8, JAMDSM0050-JAMDSM0050.	0.3	0
139	Development of an optical probe for evaluation of tool edge geometry. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2014, 8, JAMDSM0063-JAMDSM0063.	0.3	5
140	Optical metrology for precision engineering. Advanced Optical Technologies, 2014, 3, 373-374.	0.9	1
141	Measurement of Cutting Edge Width of a Rotary Cutting Tool by Using a Laser Displacement Sensor. International Journal of Automation Technology, 2014, 8, 28-33.	0.5	5
142	Experiment of Polarization Forces in Scanning Electrostatic Force Microscopy for Measuring Surface Profile of Dielectric. Open Electrical and Electronic Engineering Journal, 2014, 8, 342-347.	0.6	2
143	A six-degree-of-freedom surface encoder for precision positioning of a planar motion stage. Precision Engineering, 2013, 37, 771-781.	1.8	142
144	Design and construction of the motion mechanism of an XY micro-stage for precision positioning. Sensors and Actuators A: Physical, 2013, 201, 395-406.	2.0	53

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145	Characterization of electrostatic force for scanning electrostatic force microscopy of micro-structured surface. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1543-1549.	1.1	4
146	Construction and verification of a linear-rotary microstage with a millimeter-scale range. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1623-1628.	1.1	21
147	Surface profile measurement of internal micro-structures. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1535-1541.	1.1	12
148	Fabrication of scale gratings for surface encoders by using laser interference lithography with 405 nm laser diodes. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1979-1988.	1.1	12
149	Fabrication of large-size SiC mirror with precision aspheric profile for artificial satellite. Precision Engineering, 2013, 37, 640-649.	1.8	39
150	Precision tool setting for fabrication of a microstructure array. CIRP Annals - Manufacturing Technology, 2013, 62, 523-526.	1.7	40
151	Surface form metrology of micro-optics. Proceedings of SPIE, 2013, , .	0.8	12
152	Analysis of the forces in electrostatic force microscopy for profile measurement of micro-structured surface of dielectric. , 2013, , .		0
153	Fabrication of diffraction gratings for surface encoders by using a Lloyd's mirror interferometer with a 405 nm laser diode. Proceedings of SPIE, 2013, , .	0.8	2
154	Modeling and analysis of a scanning electrostatic force microscope for surface profile measurement. , 2013, , .		0
155	B002 Construction of a surface profile measurement system by using a nanopipette ball probe with shear-force detection. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2013, 2013.7, 159-164.	0.0	1
156	C017 Design and Testing of a Four-Probe Sensor Head For a Mosaic Grating Surface Encoder. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2013, 2013.7, 381-384.	0.0	1
157	An Electrostatic Force Probe for Surface Profile Measurement in Noncontact Condition. International Journal of Automation Technology, 2013, 7, 714-719.	0.5	3
158	Development of a Micro-Sized Thermal Contact Sensor for Inspection of Surface Defects. International Journal of Automation Technology, 2013, 7, 708-713.	0.5	1
159	Design and Experiment of Thermal Contact Sensor Detecting Defects on Si Wafer Surface. Key Engineering Materials, 2012, 523-524, 826-831.	0.4	5
160	Form Error Characterization of Reflective-Type Gratings. Key Engineering Materials, 2012, 523-524, 859-864.	0.4	2
161	Analysis and Measurement of the Dynamic Motions of a Large-Scale Rotating Roll Workpiece. Key Engineering Materials, 2012, 523-524, 847-852.	0.4	2
162	Design of a Three-Axis Surface Encoder with a Blue-Ray Laser Diode. Key Engineering Materials, 2012, 523-524, 913-918.	0.4	1

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163	Design and Test of a Three-Axis Mosaic Surface Encoder. Key Engineering Materials, 2012, 523-524, 919-924.	0.4	1
164	An air-bearing displacement sensor for nanometrology of surface forms. , 2012, , .		0
165	A scanning-light method for inspection of tool cutting edge. , 2012, , .		1
166	Edge Contour Measurement of Single Point Diamond Cutting Tools by an Optical Probe. Key Engineering Materials, 2012, 523-524, 925-931.	0.4	1
167	Establishment of a measuring station on a diamond turning machine for in-process cutting edge inspection of single point diamond micro-tools. International Journal of Nanomanufacturing, 2012, 8, 106.	0.3	4
168	Surface Form Measurement and Analysis of a Cylindrical Workpiece with Microstructures. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2012, 6, 936-948.	0.3	12
169	Fabrication of micro-ball styluses for scanning-type surface form metrology. International Journal of Nanomanufacturing, 2012, 8, 87.	0.3	11
170	Cutting Edge Height Measurement of a Rotary Cutting Tool by a Laser Displacement Sensor. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2012, 6, 815-828.	0.3	9
171	A sub-nanometric three-axis surface encoder with short-period planar gratings for stage motion measurement. Precision Engineering, 2012, 36, 576-585.	1.8	104
172	Fast evaluation of period deviation and flatness of a linear scale by using a Fizeau interferometer. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1517-1524.	1.1	5
173	Spindle error motion measurement of a large precision roll lathe. International Journal of Precision Engineering and Manufacturing, 2012, 13, 861-867.	1.1	22
174	A noncontact scanning electrostatic force microscope for surface profile measurement. CIRP Annals - Manufacturing Technology, 2012, 61, 471-474.	1.7	18
175	Precision measurement of carriage slide motion error of a drum roll lathe. Precision Engineering, 2012, 36, 244-251.	1.8	17
176	Analysis on the Distribution Regularity of Fire Load in Hotel Buildings. Fire Science and Technology, 2012, 31, 33-48.	0.2	2
177	On-Machine Profile Measurement of Large Mirror for Satellite (1st Report). Journal of the Japan Society for Precision Engineering, 2012, 78, 631-635.	0.0	1
178	Title is missing!. Journal of the Japan Society for Precision Engineering, 2011, 77, 85-89.	0.0	0
179	Experimental investigation of an air-bearing displacement sensor for on-machine surface form measurement of micro-structures. International Journal of Precision Engineering and Manufacturing, 2011, 12, 671-678.	1.1	18
180	A Novel Sensorless Control of a Two-Axis Planar Motion Stage for Precision Positioning. Advanced Materials Research, 2011, 189-193, 4121-4125.	0.3	1

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181	An ultra-precision scanning tunneling microscope (Z)-scanner for surface profile measurement of large amplitude micro-structures. Measurement Science and Technology, 2011, 22, 085101.	1.4	21
182	Design of a linear-rotary micro-stage. Proceedings of SPIE, 2011, , .	0.8	1
183	A two-degree-of-freedom linear encoder with a mosaic scale grating. International Journal of Nanomanufacturing, 2011, 7, 73.	0.3	9
184	Multi-axis grating encoders for stage motion measurement. International Journal of Nanomanufacturing, 2011, 7, 409.	0.3	1
185	A glass tube micro-stylus probe for surface form metrology. Proceedings of SPIE, 2011, , .	0.8	1
186	Surface Encoders for a Mosaic Scale Grating. International Journal of Automation Technology, 2011, 5, 91-96.	0.5	4
187	Questionnaire Survey on Ultra-Precision Positioning. International Journal of Automation Technology, 2011, 5, 766-772.	0.5	37
188	3377 Height measurement of cutting edge by a laser displacement sensor. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2011, 2011.6, _3377-1_-_3377-4_.	0.0	0
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