

# Yuki Shimizu

## List of Publications by Year in descending order

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194  
papers

2,212  
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236612

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344852

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196  
all docs

196  
docs citations

196  
times ranked

814  
citing authors

#	ARTICLE	IF	CITATIONS
1	A six-degree-of-freedom surface encoder for precision positioning of a planar motion stage. Precision Engineering, 2013, 37, 771-781.	1.8	142
2	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
3	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
4	Optical frequency domain angle measurement in a femtosecond laser autocollimator. Optics Express, 2017, 25, 16725.	1.7	53
5	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
6	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
7	Nano-Scale Defect Mapping on a Magnetic Disk Surface Using a Contact Sensor. IEEE Transactions on Magnetics, 2011, 47, 3426-3432.	1.2	42
8	Precision tool setting for fabrication of a microstructure array. CIRP Annals - Manufacturing Technology, 2013, 62, 523-526.	1.7	40
9	Fabrication of large-size SiC mirror with precision aspheric profile for artificial satellite. Precision Engineering, 2013, 37, 640-649.	1.8	39
10	Ultra-sensitive angle sensor based on laser autocollimation for measurement of stage tilt motions. Optics Express, 2016, 24, 2788.	1.7	39
11	Mode-locked laser autocollimator with an expanded measurement range. Optics Express, 2016, 24, 15554.	1.7	37
12	Optical Sensors for Multi-Axis Angle and Displacement Measurement Using Grating Reflectors. Sensors, 2019, 19, 5289.	2.1	36
13	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
14	Laser Interference Lithography for Fabrication of Planar Scale Gratings for Optical Metrology. Nanomanufacturing and Metrology, 2021, 4, 3-27.	1.5	35
15	Contact/Clearance Sensor for HDI Subnanometer Regime. IEEE Transactions on Magnetics, 2014, 50, 114-118.	1.2	33
16	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
17	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
18	Dynamically Controlled Thermal Flying-Height Control Slider. IEEE Transactions on Magnetics, 2008, 44, 3695-3697.	1.2	27

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19	An optical lever by using a mode-locked laser for angle measurement. Precision Engineering, 2017, 47, 72-80.	1.8	27
20	A chromatic confocal probe with a mode-locked femtosecond laser source. Optics and Laser Technology, 2018, 103, 359-366.	2.2	27
21	Laser autocollimation based on an optical frequency comb for absolute angular position measurement. Precision Engineering, 2018, 54, 284-293.	1.8	27
22	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
23	Performance of Sliders Flying Over Discrete-Track Media. Journal of Tribology, 2007, 129, 712-719.	1.0	26
24	Reduction in Cross-Talk Errors in a Six-Degree-of-Freedom Surface Encoder. Nanomanufacturing and Metrology, 2019, 2, 111-123.	1.5	26
25	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
26	Optical Angle Sensor Technology Based on the Optical Frequency Comb Laser. Applied Sciences (Switzerland), 2020, 10, 4047.	1.3	25
27	Experimental study on slider dynamics during touchdown by using thermal flying-height control. Microsystem Technologies, 2011, 17, 897-902.	1.2	24
28	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
29	Measurement of six-degree-of-freedom planar motions by using a multiprobe surface encoder. Optical Engineering, 2014, 53, 122405.	0.5	23
30	Spindle error motion measurement of a large precision roll lathe. International Journal of Precision Engineering and Manufacturing, 2012, 13, 861-867.	1.1	22
31	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
32	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
33	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
34	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
35	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
36	Scratch-Induced Demagnetization of Perpendicular Magnetic Disk. IEEE Transactions on Magnetics, 2008, 44, 3633-3636.	1.2	19

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37	Design and Evaluation of Damped Air Bearings at Head-Disk Interface. <i>Journal of Tribology</i> , 2010, 132, .	1.0	19
38	A measurement method of cutting tool position for relay fabrication of microstructured surface. <i>Measurement Science and Technology</i> , 2014, 25, 064018.	1.4	19
39	A Micro-Coordinate Measurement Machine (CMM) for Large-Scale Dimensional Measurement of Micro-Slits. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 156.	1.3	19
40	Influences of misalignment errors of optical components in an orthogonal two-axis Lloyd's mirror interferometer. <i>Optics Express</i> , 2016, 24, 27521.	1.7	19
41	An autocollimator with a mid-infrared laser for angular measurement of rough surfaces. <i>Precision Engineering</i> , 2021, 67, 89-99.	1.8	19
42	Experimental investigation of an air-bearing displacement sensor for on-machine surface form measurement of micro-structures. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 671-678.	1.1	18
43	A noncontact scanning electrostatic force microscope for surface profile measurement. <i>CIRP Annals - Manufacturing Technology</i> , 2012, 61, 471-474.	1.7	18
44	Self-evaluation of the cutting edge contour of a microdiamond tool with a force sensor integrated fast tool servo on an ultra-precision lathe. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 2257-2267.	1.5	18
45	Optimal polarization modulation for orthogonal two-axis Lloyd's mirror interference lithography. <i>Optics Express</i> , 2017, 25, 22237.	1.7	18
46	A stitching linear-scan method for roundness measurement of small cylinders. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 535-538.	1.7	18
47	Precision measurement of carriage slide motion error of a drum roll lathe. <i>Precision Engineering</i> , 2012, 36, 244-251.	1.8	17
48	Pitch deviation measurement of an involute spur gear by a rotary profiling system. <i>Precision Engineering</i> , 2015, 39, 152-160.	1.8	16
49	Uncertainty analysis of slot die coater gap width measurement by using a shear mode micro-probing system. <i>Precision Engineering</i> , 2016, 43, 525-529.	1.8	16
50	A new method for evaluation of the pitch deviation of a linear scale grating by an optical angle sensor. <i>Precision Engineering</i> , 2021, 67, 1-13.	1.8	16
51	An absolute surface encoder with a planar scale grating of variable periods. <i>Precision Engineering</i> , 2021, 67, 36-47.	1.8	15
52	Molecular dynamics simulation of subnanometric tool-workpiece contact on a force sensor-integrated fast tool servo for ultra-precision microcutting. <i>Applied Surface Science</i> , 2016, 369, 354-365.	3.1	14
53	Implementation and verification of a four-probe motion error measurement system for a large-scale roll lathe used in hybrid manufacturing. <i>Measurement Science and Technology</i> , 2017, 28, 105004.	1.4	14
54	An ultra-precision tool nanoindentation instrument for replication of single point diamond tool cutting edges. <i>Measurement Science and Technology</i> , 2018, 29, 054004.	1.4	14

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55	A Liquid-Surface-Based Three-Axis Inclination Sensor for Measurement of Stage Tilt Motions. <i>Sensors</i> , 2018, 18, 398.	2.1	14
56	Feasibility study on the concept of thermal contact sensor for nanometre-level defect inspections on smooth surfaces. <i>Measurement Science and Technology</i> , 2014, 25, 064006.	1.4	13
57	Design of a laser autocollimator-based optical sensor with a rangefinder for error correction of precision slide guideways. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 423-431.	1.1	13
58	A new signal processing method for a differential chromatic confocal probe with a mode-locked femtosecond laser. <i>Measurement Science and Technology</i> , 2020, 31, 094004.	1.4	13
59	Experimental and Numerical Simulation Study on Low-Surface Energy Slider With Thermal Flying-Height Control Function. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3620-3623.	1.2	12
60	Surface Form Measurement and Analysis of a Cylindrical Workpiece with Microstructures. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012, 6, 936-948.	0.3	12
61	Surface profile measurement of internal micro-structures. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1535-1541.	1.1	12
62	Fabrication of scale gratings for surface encoders by using laser interference lithography with 405 nm laser diodes. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1979-1988.	1.1	12
63	Surface form metrology of micro-optics. <i>Proceedings of SPIE</i> , 2013, , .	0.8	12
64	Integration of a Crê“N Thin-Film Displacement Sensor into an XY Micro-stage for Closed-Loop Nano-positioning. <i>Nanomanufacturing and Metrology</i> , 2019, 2, 131-139.	1.5	12
65	Evaluation of the pitch deviation of a linear scale based on a self-calibration method with a Fizeau interferometer. <i>Measurement Science and Technology</i> , 2020, 31, 094002.	1.4	12
66	Fabrication of micro-ball styluses for scanning-type surface form metrology. <i>International Journal of Nanomanufacturing</i> , 2012, 8, 87.	0.3	11
67	On-machine form measurement of high precision ceramics parts by using a laser displacement sensor. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014, 8, JAMDSM0048-JAMDSM0048.	0.3	11
68	Design optimization of a non-orthogonal two-axis Lloyd's mirror interferometer for fabrication of large-area two-dimensional scale gratings. <i>Precision Engineering</i> , 2019, 60, 280-290.	1.8	11
69	A Method for Expansion of Z-Directional Measurement Range in a Mode-Locked Femtosecond Laser Chromatic Confocal Probe. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 454.	1.3	11
70	Self-calibration of Fizeau interferometer and planar scale gratings in Littrow setup. <i>Optics Express</i> , 2017, 25, 21567.	1.7	10
71	Design and Testing of a Micro-thermal Sensor Probe for Nondestructive Detection of Defects on a Flat Surface. <i>Nanomanufacturing and Metrology</i> , 2018, 1, 45-57.	1.5	10
72	An Optical Frequency Domain Angle Measurement Method Based on Second Harmonic Generation. <i>Sensors</i> , 2021, 21, 670.	2.1	10

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73	Closed-Loop Control of an XYZ Micro-Stage and Designing of Mechanical Structure for Reduction in Motion Errors. <i>Nanomanufacturing and Metrology</i> , 2021, 4, 53-66.	1.5	10
74	Study of a Spherical-Pad Head Slider for Stable Low-Clearance Recording in Near-Contact Regime. <i>Tribology Letters</i> , 2008, 30, 161-167.	1.2	9
75	Mechanism study of scratch-induced demagnetization for perpendicular magnetic disks. <i>Microsystem Technologies</i> , 2010, 16, 221-226.	1.2	9
76	A two-degree-of-freedom linear encoder with a mosaic scale grating. <i>International Journal of Nanomanufacturing</i> , 2011, 7, 73.	0.3	9
77	A Micro-Stage for Linear-Rotary Positioning. <i>Key Engineering Materials</i> , 0, 523-524, 650-655.	0.4	9
78	Cutting Edge Height Measurement of a Rotary Cutting Tool by a Laser Displacement Sensor. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012, 6, 815-828.	0.3	9
79	Uncertainty Evaluation for Measurements of Pitch Deviation and Out-of-Flatness of Planar Scale Gratings by a Fizeau Interferometer in Littrow Configuration. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2539.	1.3	9
80	High-Precision Cutting Edge Radius Measurement of Single Point Diamond Tools Using an Atomic Force Microscope and a Reverse Cutting Edge Artifact. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4799.	1.3	9
81	Measurement Uncertainty Analysis of a Stitching Linear-Scan Method for the Evaluation of Roundness of Small Cylinders. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4750.	1.3	9
82	Precision measurement of Z-slide vertical error motion of an ultra-precision lathe by using three-probe method. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 651-660.	1.1	8
83	Molecular dynamics simulation of elastic-plastic deformation associated with tool-workpiece contact in force sensor-integrated fast tool servo. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1893-1902.	1.5	8
84	Generalized method for probing ideal initial polarization states in multibeam Lloyd's mirror interference lithography of 2D scale gratings. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, 021601.	0.6	8
85	Design and Construction of a Low-Force Stylus Probe for On-machine Tool Cutting Edge Measurement. <i>Nanomanufacturing and Metrology</i> , 2020, 3, 282-291.	1.5	8
86	Self-calibration and compensation of setting errors for surface profile measurement of a microstructured roll workpiece. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 14-22.	1.9	7
87	On-line qualification of a micro probing system for precision length measurement of micro-features on precision parts. <i>Measurement Science and Technology</i> , 2016, 27, 074008.	1.4	7
88	Design and testing of an optical configuration for multi-dimensional measurement of a diamond cutting tool. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 94, 934-941.	2.5	7
89	Investigation and Improvement of Thermal Stability of a Chromatic Confocal Probe with a Mode-Locked Femtosecond Laser Source. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4084.	1.3	7
90	An Off-Axis Differential Method for Improvement of a Femtosecond Laser Differential Chromatic Confocal Probe. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7235.	1.3	7

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91	On-machine angle measurement of a precision V-groove on a ceramic workpiece. CIRP Annals - Manufacturing Technology, 2020, 69, 469-472.	1.7	7
92	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
93	Fluorine-ion-implanted air-bearing surface for low-friction head-disk interface. Microsystem Technologies, 2010, 16, 293-299.	1.2	6
94	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
95	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
96	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
97	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
98	On-machine diameter measurement of a cylindrical workpiece with a reference artefact. Measurement Science and Technology, 2021, 32, 105012.	1.4	6
99	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
100	Design and Experiment of Thermal Contact Sensor Detecting Defects on Si Wafer Surface. Key Engineering Materials, 2012, 523-524, 826-831.	0.4	5
101	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
102	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
103	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
104	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
105	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
106	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
107	Measurement Range Expansion of Chromatic Confocal Probe with Supercontinuum Light Source. International Journal of Automation Technology, 2021, 15, 529-536.	0.5	5
108	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

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109	Accurate polarization control in nonorthogonal two-axis Lloyd's mirror interferometer for fabrication of two-dimensional scale gratings. <i>Optical Engineering</i> , 2019, 58, 1.	0.5	5
110	Design and Testing of a Micro Thermal Sensor for Non-Contact Surface Defect Detection. <i>International Journal of Automation Technology</i> , 2017, 11, 781-786.	0.5	5
111	Measurement of Cutting Edge Width of a Rotary Cutting Tool by Using a Laser Displacement Sensor. <i>International Journal of Automation Technology</i> , 2014, 8, 28-33.	0.5	5
112	A Self-Calibration Stitching Method for Pitch Deviation Evaluation of a Long-Range Linear Scale by Using a Fizeau Interferometer. <i>Sensors</i> , 2021, 21, 7412.	2.1	5
113	Technique for checking design rules for three-dimensional CAD data. , 2010, , .		4
114	Establishment of a measuring station on a diamond turning machine for in-process cutting edge inspection of single point diamond micro-tools. <i>International Journal of Nanomanufacturing</i> , 2012, 8, 106.	0.3	4
115	Effect of reduction of slider pitch-mode vibration on magnetic-recording performance at low-clearance head-disk interface. <i>Microsystem Technologies</i> , 2012, 18, 1597-1606.	1.2	4
116	Characterization of electrostatic force for scanning electrostatic force microscopy of micro-structured surface. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1543-1549.	1.1	4
117	Drift reduction in a scanning electrostatic force microscope for surface profile measurement. <i>Measurement Science and Technology</i> , 2014, 25, 094001.	1.4	4
118	An improved scan mode in an electrostatic force microscope for surface profile measurement of micro-optics. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014, 8, JAMDSM0051-JAMDSM0051.	0.3	4
119	A differential strategy for measurement of a static force in a single-point diamond cutting by a force-controlled fast tool servo. <i>Measurement Science and Technology</i> , 2020, 31, 074014.	1.4	4
120	Measurement of the apex angle of a small prism by an oblique-incidence mode-locked femtosecond laser autocollimator. <i>Precision Engineering</i> , 2021, 67, 339-349.	1.8	4
121	Surface Encoders for a Mosaic Scale Grating. <i>International Journal of Automation Technology</i> , 2011, 5, 91-96.	0.5	4
122	A Second Harmonic Wave Angle Sensor with a Collimated Beam of Femtosecond Laser. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5211.	1.3	4
123	Air-bearing surface chemical modification for low-friction head-disk interface. <i>Microsystem Technologies</i> , 2007, 13, 811-816.	1.2	3
124	Development of Design Navigation System Combining Design Knowledge with Design Tools in a Step-by-Step Process. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2008, 74, 225-232.	0.2	3
125	New Measurement Concept of Nanometer-Level Defects on Si Wafer Surface by Using Micro Contact Sensor. <i>Advanced Materials Research</i> , 0, 497, 137-141.	0.3	3
126	Cr-N Strain-Gauge-Type Precision Displacement Sensor for Measuring Positions of Micro Stage. <i>Key Engineering Materials</i> , 0, 523-524, 939-944.	0.4	3



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127	Dynamic Response of an Air-Bearing Displacement Sensor for on-Machine Surface Form Measurement. Key Engineering Materials, 0, 523-524, 836-841.	0.4	3
128	Eccentric Error Compensation for Pitch Deviation Measurement of Gears. Key Engineering Materials, 0, 523-524, 853-858.	0.4	3
129	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
130	An Electrostatic Force Probe for Surface Profile Measurement in Noncontact Condition. International Journal of Automation Technology, 2013, 7, 714-719.	0.5	3
131	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
132	A Surface Encoder with a Multi-Spot Light Source.. Journal of the Japan Society for Precision Engineering, 2002, 68, 70-74.	0.0	3
133	Optical Analysis of an Optical Probe for Three-Dimensional Position Detection of Micro-Objects. International Journal of Automation Technology, 2011, 5, 862-865.	0.5	3
134	A New Optical Configuration for the Surface Encoder with an Expanded Z-Directional Measuring Range. Sensors, 2022, 22, 3010.	2.1	3
135	Influence of Surface Tilt Angle on a Chromatic Confocal Probe with a Femtosecond Laser. Applied Sciences (Switzerland), 2022, 12, 4736.	1.3	3
136	Form Error Characterization of Reflective-Type Gratings. Key Engineering Materials, 2012, 523-524, 859-864.	0.4	2
137	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
138	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
139	Three-axis vibration measurement by using a grating-interferometric vibrometer. Advanced Optical Technologies, 2014, 3, 435-440.	0.9	2
140	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
141	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
142	Analysis of a Lloyd's mirror interferometer for fabrication of gratings. , 2016, , .		2
143	Evaluation of Nanometer Cutting Tool Edge for Nanofabrication. , 0, , .		2
144	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

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145	Fabrication of a Two-Dimensional Diffraction Grating with Isolated Photoresist Pattern Structures. International Journal of Automation Technology, 2020, 14, 546-551.	0.5	2
146	Numerical simulation of effect of roughness/texture of slider surface on intermolecular force. Microsystem Technologies, 2007, 13, 981-986.	1.2	1
147	Surface characterization of a diamond turned XY sinusoidal grating. Procedia Engineering, 2011, 19, 337-342.	1.2	1
148	Design of a linear-rotary micro-stage. Proceedings of SPIE, 2011, , .	0.8	1
149	Multi-axis grating encoders for stage motion measurement. International Journal of Nanomanufacturing, 2011, 7, 409.	0.3	1
150	A glass tube micro-stylus probe for surface form metrology. Proceedings of SPIE, 2011, , .	0.8	1
151	Design of a Three-Axis Surface Encoder with a Blue-Ray Laser Diode. Key Engineering Materials, 2012, 523-524, 913-918.	0.4	1
152	Design and Test of a Three-Axis Mosaic Surface Encoder. Key Engineering Materials, 2012, 523-524, 919-924.	0.4	1
153	Improvement of an Air-Bearing Displacement Sensor with Nanometric Resolution. Key Engineering Materials, 0, 523-524, 945-950.	0.4	1
154	A scanning-light method for inspection of tool cutting edge. , 2012, , .		1
155	Edge Contour Measurement of Single Point Diamond Cutting Tools by an Optical Probe. Key Engineering Materials, 2012, 523-524, 925-931.	0.4	1
156	Micro thermal sensor for nanometric surface defect inspection. , 2016, , .		1
157	A Three-Axis Angle Sensor with a Linear Encoder Scale Reflector. Applied Mechanics and Materials, 0, 870, 141-146.	0.2	1
158	Fast evaluation of a linear scale for a linear encoder with a Fizeau interferometer and stitching technique. , 2018, , .		1
159	An ultra-sensitive optical angle sensor for pitch deviation measurement of diffraction gratings. , 2018, , .		1
160	Measurement and uncertainty analysis of a precision V-shaped ceramic part. , 2018, , .		1
161	Uncertainty analysis of a six-degree-of-freedom surface encoder for a planar motion stage. Procedia CIRP, 2018, 75, 355-360.	1.0	1
162	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

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163	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
164	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
165	1505 Measurement of angular error motions of a precision linear stage by using a high resolution clinometer. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2015, 2015.8, _1505-1_-_1505-4_.	0.0	1
166	407 Standardization and visualization of design process by use of Design Navigator. The Proceedings of Ibaraki District Conference, 2008, 2008, 95-96.	0.0	1
167	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
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