

Kuang-Chao Fan

List of Publications by Year in descending order

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167
papers

3,020
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167
docs citations

167
times ranked

1879
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast volumetric error assessment of a gantry-type machine using multi-degree-of-freedom laser-based sensors and Vector Transfer Model. International Journal of Advanced Manufacturing Technology, 2022, 118, 3711-3724.	1.5	1
2	Accuracy improvement of linear stages using on-machine geometric error measurement system and error transformation model. Optics Express, 2022, 30, 7539.	1.7	8
3	Accuracy Improvement of a Laser Diode-Based System for Measuring the Geometric Errors of Machine Tools. Applied Sciences (Switzerland), 2022, 12, 3479.	1.3	1
4	New Radius and Roundness Measurement for Microspheres Using a High-Precision Run-Out Error Separation Method. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	6
5	Novel Compensation Method of Volumetric Errors for Micro-Coordinate Measuring Machines Using Abbe and Bryan Principles. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	5
6	A high-precision two-dimensional micro-accelerometer for low-frequency and micro-vibrations. Precision Engineering, 2021, 67, 419-427.	1.8	16
7	A novel machine learning algorithm for large measurement range of quadrant photodetector. Optik, 2021, 227, 165971.	1.4	3
8	Development of a High-Precision Multifunctional Probe for Measuring Microstructures. IEEE Sensors Journal, 2021, 21, 9112-9119.	2.4	2
9	A self-calibration method for rotary tables' five degrees-of-freedom error motions. Measurement: Journal of the International Measurement Confederation, 2021, 174, 109067.	2.5	5
10	Development of a high-precision two-dimensional coplanar micro-vibration generator. Measurement Science and Technology, 2021, 32, 105004.	1.4	4
11	Self-compensation method for dual-beam roll angle measurement of linear stages. Optics Express, 2021, 29, 26340.	1.7	6
12	A miniature laser diode interferometer with self-compensation of retroreflector's motion errors for displacement feedback of small-sized micro/nano motion stages. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110172.	2.5	12
13	Development of a high-sensitivity dual-axis optoelectronic level using double-layer liquid refraction. Optics and Lasers in Engineering, 2021, 146, 106696.	2.0	2
14	Measurement Range Enhancement of a Scanning Probe by the Real Time Adjustment of the Interferometer Reference Mirror. IEEE Sensors Journal, 2021, 21, 24010-24018.	2.4	2
15	Analog Electronic Method for Solving Nonlinear Errors of Sinusoidal Waves in Interferometry. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	4
16	Special Issue on Manufacturing Metrology. Applied Sciences (Switzerland), 2021, 11, 10660.	1.3	1
17	Design and verification of micro/nano probes for coordinate measuring machines (Withdrawal) Tj ETQq1 1 0.784314 rgBT /Oylock 10		
18	Correction to 'Analog Electronic Method for Solving Nonlinear Errors of Sinusoidal Waves in Interferometry'. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-1.	2.4	2

#	ARTICLE	IF	CITATIONS
19	Real-time wavelength compensation of laser diode interferometer. , 2021, , .		0
20	Analysis of effects of retroreflector motion errors on measurement accuracy of a homodyne interferometer. , 2021, , .		0
21	Uncertainty evaluation for dynamic identification of a micro contact probe based on the signal transmission chain analysis method. Measurement Science and Technology, 2020, 31, 125007.	1.4	9
22	On-Line Measurement Method for Diameter and Roundness Error of Balls. Nanomanufacturing and Metrology, 2020, 3, 218-227.	1.5	10
23	An Innovative Dual-Axis Precision Level Based on Light Transmission and Refraction for Angle Measurement. Applied Sciences (Switzerland), 2020, 10, 6019.	1.3	5
24	Tests for position and orientation errors of axes of a 2D rotary stage. Measurement Science and Technology, 2020, 31, 115014.	1.4	5
25	A five degrees-of-freedom errors measurement system for rotary axis with reference laser for reference axis alignment. Review of Scientific Instruments, 2020, 91, 075101.	0.6	2
26	A novel modeling of volumetric errors of three-axis machine tools based on Abbe and Bryan principles. International Journal of Machine Tools and Manufacture, 2020, 151, 103527.	6.2	49
27	Embedded Sensor System for Five-degree-of-freedom Error Detection on Machine Tools. Mechanical Engineering Science, 2020, 1, .	0.1	3
28	An Embedded Sensor System for Real-Time Detecting 5-DOF Error Motions of Rotary Stages. Sensors, 2019, 19, 2855.	2.1	15
29	Modeling and Optimal Design for a High Stability 2D Optoelectronic Angle Sensor. Sensors, 2019, 19, 4409.	2.1	5
30	Real-Time Correction and Stabilization of Laser Diode Wavelength in Miniature Homodyne Interferometer for Long-Stroke Micro/Nano Positioning Stage Metrology. Sensors, 2019, 19, 4587.	2.1	7
31	Special Issue on Precision Dimensional Measurements. Applied Sciences (Switzerland), 2019, 9, 3314.	1.3	1
32	Error Analysis and Compensation of a Laser Measurement System for Simultaneously Measuring Five-Degree-of-Freedom Error Motions of Linear Stages. Sensors, 2019, 19, 3833.	2.1	19
33	A Low-Frequency Micro Accelerometer Based on Three-Lobed Leaf Spring and a Focus Probe. IEEE Photonics Journal, 2019, 11, 1-12.	1.0	5
34	Design of a compact four degree-of-freedom active compensation system to restrain laser's angular drift and parallel drift. Review of Scientific Instruments, 2019, 90, 115002.	0.6	3
35	Design and Verification of Micro/Nano-Probes for Coordinate Measuring Machines. Nanomanufacturing and Metrology, 2019, 2, 1-15.	1.5	28
36	Robust roll angular error measurement system for precision machines. Optics Express, 2019, 27, 8027.	1.7	24

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37	Design of optical accelerometer using four-quadrant photodetector. , 2019, , .		1
38	The Method for Restraining Laser Drift Based on Controlling Mirror. Nanomanufacturing and Metrology, 2018, 1, 58-65.	1.5	3
39	A novel method of angular positioning error analysis of rotary stages based on the Abbe principle. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1885-1892.	1.5	17
40	A parallel error separation method for the on-line measurement and reconstruction of cylindrical profiles. Precision Engineering, 2018, 51, 1-9.	1.8	16
41	High-precision and low-cost vibration generator for low-frequency calibration system. Measurement Science and Technology, 2018, 29, 034008.	1.4	18
42	Comparison of Current Five-Point Cylindricity Error Separation Techniques. Applied Sciences (Switzerland), 2018, 8, 1946.	1.3	6
43	Precision Manufacturing of Patterned Beryllium Bronze Leaf Springs via Chemical Etching. Applied Sciences (Switzerland), 2018, 8, 1476.	1.3	7
44	Development of a Micro/Nano Probing System Using Double Elastic Mechanisms. Sensors, 2018, 18, 4229.	2.1	6
45	Development of a Compact Three-Degree-of-Freedom Laser Measurement System with Self-Wavelength Correction for Displacement Feedback of a Nanopositioning Stage. Applied Sciences (Switzerland), 2018, 8, 2209.	1.3	13
46	Development of a High-Sensitivity Optical Accelerometer for Low-Frequency Vibration Measurement. Sensors, 2018, 18, 2910.	2.1	27
47	Low cost, compact 4-DOF measurement system with active compensation of beam angular drift error. Optics Express, 2018, 26, 17185.	1.7	30
48	An Analysis of Angular Indexing Error of a Gear Measuring Machine. Applied Sciences (Switzerland), 2018, 8, 169.	1.3	11
49	Fabrication and Study of Micro Monolithic Tungsten Ball Tips for Micro/Nano-CMM Probes. Micromachines, 2018, 9, 133.	1.4	7
50	Ball Tips of Micro/Nano Probing Systems: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2017, 30, 222-230.	1.9	8
51	Analysis of CNC machining based on characteristics of thermal errors and optimal design of experimental programs during actual cutting process. International Journal of Advanced Manufacturing Technology, 2017, 88, 1363-1371.	1.5	3
52	A Three-Dimensional Resonant Triggering Probe for Micro-CMM. Applied Sciences (Switzerland), 2017, 7, 403.	1.3	16
53	Development of a High-Precision Touch-Trigger Probe Using a Single Sensor. Applied Sciences (Switzerland), 2016, 6, 86.	1.3	29
54	Development of an Abbe Error Free Micro Coordinate Measuring Machine. Applied Sciences (Switzerland), 2016, 6, 97.	1.3	19

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55	Error Averaging Effect in Parallel Mechanism Coordinate Measuring Machine. Applied Sciences (Switzerland), 2016, 6, 383.	1.3	4
56	Development of a low-cost mini environment chamber for precision instruments. Proceedings of SPIE, 2016, , .	0.8	2
57	A long-stroke 3D contact scanning probe for micro/nano coordinate measuring machine. Precision Engineering, 2016, 43, 220-229.	1.8	49
58	A visual non-contact focusing probe for the measurement of micro cavities. International Journal of Nanomanufacturing, 2015, 11, 207.	0.3	5
59	Optimal design of a touch trigger probe. , 2015, , .		1
60	Development of a roundness measuring system for microspheres. Measurement Science and Technology, 2014, 25, 064009.	1.4	26
61	Development of a high precision coplanar stage by using miniature Michelson interferometer. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2251-2256.	1.1	10
62	Techniques of multi-degree-of-freedom measurement on the linear motion errors of precision machines. Advanced Optical Technologies, 2014, 3, 375-386.	0.9	24
63	Innovative optical scanning technique and device for three-dimensional full-scale measurement of wind-turbine blades. Optical Engineering, 2014, 53, 122411.	0.5	10
64	ASPEN 2013 (Taipei). Measurement Science and Technology, 2014, 25, 090301.	1.4	0
65	A Long-Stroke Nanopositioning Control System of the Coplanar Stage. IEEE/ASME Transactions on Mechatronics, 2014, 19, 348-356.	3.7	35
66	Development of an automatic cumulative-lead error measurement system for ballscrew nuts. International Journal of Advanced Manufacturing Technology, 2014, 72, 17-23.	1.5	4
67	An analogue contact probe using a compact 3D optical sensor for micro/nano coordinate measuring machines. Measurement Science and Technology, 2014, 25, 094008.	1.4	23
68	A novel dual-axis optoelectronic level with refraction principle. Measurement Science and Technology, 2013, 24, 035902.	1.4	12
69	Development of a new meso-scale machine tool for fabricating micro V-grooves. Microsystem Technologies, 2013, 19, 1767-1774.	1.2	1
70	Development of a miniature multi-degree-of-freedom measurement system for ultra precision stages. , 2013, , .		3
71	Experimental study on fabricating micro monolithic tungsten probing ball for micro-CMM. Proceedings of SPIE, 2013, , .	0.8	2
72	A robust sinusoidal signal processing method for interferometers. , 2013, , .		7

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73	Analysis of the elastic mechanism for contact scanning probe. , 2013, , .		0
74	A contact probe using Michelson interferometers for CMMs. , 2013, , .		0
75	Elastic mechanism design of a CMM contact probe. , 2013, , .		0
76	Development of a Non-Contact Focusing Probe for the Measurement of Micro Cavities. International Journal of Automation Technology, 2013, 7, 156-162.	0.5	4
77	Development of a Meso-scale Machine Tool and the Preliminary Cutting Tests of Oxygen-free Copper Using a Polycrystalline Diamond Tool. Computer-Aided Design and Applications, 2012, 9, 631-640.	0.4	2
78	Special Section Guest Editorial: Precision Optical Measurements and Instrumentation for Geometrical and Mechanical Quantities. Optical Engineering, 2012, 51, 081501.	0.5	0
79	Displacement measurement of planar stage by diffraction planar encoder in nanometer resolution. , 2012, , .		7
80	Calibration and analysis of eccentric error of the laser rotary-scanning measurement system. Measurement: Journal of the International Measurement Confederation, 2012, 45, 47-53.	2.5	7
81	3-D measurement and evaluation of surface texture produced by scraping process. Measurement: Journal of the International Measurement Confederation, 2012, 45, 384-392.	2.5	10
82	Prediction of machining accuracy degradation of machine tools. Precision Engineering, 2012, 36, 288-298.	1.8	46
83	A BPNN-PID based long-stroke nanopositioning control scheme driven by ultrasonic motor. Precision Engineering, 2012, 36, 485-493.	1.8	23
84	Development of a novel planar encoder for 2D displacement measurement in nanometer resolution and accuracy. , 2011, , .		2
85	Linear diffraction grating interferometer with high alignment tolerance and high accuracy. Applied Optics, 2011, 50, 4550.	2.1	57
86	High-resolution Angle Measurement based on Michelson Interferometry. Physics Procedia, 2011, 19, 3-8.	1.2	16
87	Structural design and analysis of a nano-positioning planar motion stage. , 2011, , .		2
88	High precision measurement system based on coplanar XY-stage. Proceedings of SPIE, 2011, , .	0.8	2
89	Measurement of microchannels inside transparent substrate based on confocal microscopy. , 2011, , .		0
90	Development of a dual-axis optoelectronic precision level. Proceedings of SPIE, 2011, , .	0.8	0

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91	Contouring error compensation on a micro coordinate measuring machine. Proceedings of SPIE, 2011, , .	0.8	1
92	Design of an analogue contact probe for nano-coordinate measurement machines (CMM). , 2011, , .		3
93	Design of a dual-axis optoelectronic level for precision angle measurements. Measurement Science and Technology, 2011, 22, 055302.	1.4	15
94	A Planar Laser Diffraction Encoder in Littrow Configuration for 2D Nanometric Positioning. International Journal of Automation and Smart Technology, 2011, 1, 93-99.	0.4	12
95	LDGI signal subdivision by soft computing for nanomeasurement. Proceedings of SPIE, 2010, , .	0.8	4
96	System design and simulation of constant temperature box using semiconductor refrigeration device. International Journal of Computer Applications in Technology, 2010, 37, 146.	0.3	2
97	Analysis of the contact probe mechanism for micro-coordinate measuring machines. Optoelectronics, Instrumentation and Data Processing, 2010, 46, 340-346.	0.2	7
98	A 32 temperature and tactile sensing array using PI-copper films. International Journal of Advanced Manufacturing Technology, 2010, 46, 945-956.	1.5	80
99	Development of auto defect classification system on porosity powder metallurgy products. NDT and E International, 2010, 43, 451-460.	1.7	20
100	A scanning contact probe for a micro-coordinate measuring machine (CMM). Measurement Science and Technology, 2010, 21, 054002.	1.4	35
101	Development of a nano-positioning planar motion stage. , 2010, , .		2
102	Notice of Retraction: Optimum design of a high precision AOI machine structure. , 2010, , .		0
103	Flexible Temperature Sensor Array Based on a Graphite-Polydimethylsiloxane Composite. Sensors, 2010, 10, 3597-3610.	2.1	190
104	A 2\$imes,\$2 Split Cross-Bar Optical Switch Using a Hybrid Actuation Configuration. Journal of Lightwave Technology, 2010, 28, 2905-2911.	2.7	1
105	Design of a Meso-scale 3-axis Milling with Nanometer Accuracy. , 2010, , 161-164.		2
106	Precision in situ volume measurement of micro droplets. Journal of Optics, 2009, 11, 015503.	1.5	7
107	Design of a Novel Low-Cost and Long-Stroke Co-Planar Stage for Nanopositioning Neuartiger preisgünstiger Zwei-Ebenen-Positioniertisch für die Nanopositionierung. TM Technisches Messen, 2009, 76, 248-252.	0.3	3
108	A 2\$imes,\$2 Mechanical Optical Switch With a Thin MEMS Mirror. Journal of Lightwave Technology, 2009, 27, 1155-1161.	2.7	16

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109	A $\{N\}$ imes $\{N\}$ Architecture for 2-D Mirror-Type Optical Switches. Journal of Lightwave Technology, 2009, 27, 2843-2851.	2.7	2
110	New method on real-time signal correction and subdivision for grating-based nanometrology. , 2009, , .		3
111	An integrated flexible temperature and tactile sensing array using PI-copper films. Sensors and Actuators A: Physical, 2008, 143, 143-153.	2.0	146
112	Development of a drop-on-demand droplet generator for one-drop-fill technology. Sensors and Actuators A: Physical, 2008, 147, 649-655.	2.0	71
113	Fabrication optimization of a micro-spherical fiber probe with the Taguchi method. Journal of Micromechanics and Microengineering, 2008, 18, 015011.	1.5	15
114	Diffraction Laser Encoder with a Grating in Littrow Configuration. Japanese Journal of Applied Physics, 2008, 47, 1833.	0.8	51
115	Development of an optical accelerometer for low-frequency vibration using the voice coil on a DVD pickup head. Measurement Science and Technology, 2008, 19, 084012.	1.4	25
116	A robust control scheme of nanopositioning driven by ultrasonic motor. Proceedings of SPIE, 2008, , .	0.8	3
117	A diffraction grating scale for long range and nanometer resolution. Proceedings of SPIE, 2008, , .	0.8	4
118	Development of a touch trigger probe for micro/nano CMM. Proceedings of SPIE, 2008, , .	0.8	0
119	Micro-CMM. , 2008, , 319-335.		1
120	Two-dimensional optical accelerometer based on commercial DVD pick-up head. Measurement Science and Technology, 2007, 18, 265-274.	1.4	37
121	A $1\ \text{\AA}$ – 2 optical fiber switch using a dual-thickness SOI process. Journal of Micromechanics and Microengineering, 2007, 17, 1034-1041.	1.5	21
122	Probe technologies for micro/nano measurements. , 2007, , .		1
123	A Dynamic 3-D Surface Profilometer With Nanoscale Measurement Resolution and MHz Bandwidth for MEMS Characterization. IEEE/ASME Transactions on Mechatronics, 2007, 12, 299-307.	3.7	30
124	Temperature sensor array using flexible substrate. , 2007, , .		4
125	A displacement spindle in a micro/nano level. Measurement Science and Technology, 2007, 18, 1710-1717.	1.4	29
126	Study of a noncontact type micro-CMM with arch-bridge and nanopositioning stages. Robotics and Computer-Integrated Manufacturing, 2007, 23, 276-284.	6.1	25

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127	An image matching algorithm for variable mesh surfaces. Measurement: Journal of the International Measurement Confederation, 2007, 40, 329-337.	2.5	9
128	A linear diffraction grating interferometer with high accuracy. , 2006, , .		10
129	Numerical study on cold transfer characteristics of the space in a semiconductor refrigeration device. , 2006, , .		2
130	Development of a two-dimensional optical accelerometer using a DVD pick-up head. , 2006, 6280, 371.		1
131	Optimum design of a 1Å–2 mechanical optical switch. Structural and Multidisciplinary Optimization, 2006, 31, 229-240.	1.7	9
132	Single-Run Single-Mask Inductively-Coupled-Plasma Reactive-Ion-Etching Process for Fabricating Suspended High-Aspect-Ratio Microstructures. Japanese Journal of Applied Physics, 2006, 45, 305-310.	0.8	9
133	A miniature 1Å–2 mechanical optical switch with anti-thermal design. Journal of Micromechanics and Microengineering, 2006, 16, 1579-1586.	1.5	1
134	A novel micro/nano 1 Å– 4 mechanical optical switch. Journal of Micromechanics and Microengineering, 2006, 16, 1408-1415.	1.5	5
135	Fibre image techniques in digital stereomicroscopy. Measurement Science and Technology, 2006, 17, 373-378.	1.4	5
136	Experimental study of fabricating a microball tip on an optical fibre. Journal of Optics, 2006, 8, 782-787.	1.5	32
137	Investigation of Nanometer XY Positioning Stage. , 2006, , .		2
138	Development of a low-cost micro-CMM for 3D micro/nano measurements. Measurement Science and Technology, 2006, 17, 524-532.	1.4	86
139	3D surface profilometry for both static and dynamic nanoscale full field characterization of AFM micro cantilever beams. , 2005, 5878, 32.		2
140	Development of dynamic 3-D surface profilometry using stroboscopic interferometric measurement and vertical scanning techniques. Journal of Physics: Conference Series, 2005, 13, 51-54.	0.3	6
141	A miniature low cost and high reliability 1 Å– 2 mechanical optical switch. Journal of Micromechanics and Microengineering, 2005, 15, 1565-1570.	1.5	5
142	A compensation method for the hysteresis error of DVD VCM. Measurement Science and Technology, 2004, 15, 734-740.	1.4	11
143	Design analysis and applications of a 3D laser ball bar for accuracy calibration of multiaxis machines. Journal of Manufacturing Systems, 2004, 23, 194-203.	7.6	20
144	Identification of strut and assembly errors of a 3-PRS serialâ€“parallel machine tool. International Journal of Machine Tools and Manufacture, 2004, 44, 1171-1178.	6.2	48

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145	STEP-based product modeling system for remote collaborative reverse engineering. <i>Robotics and Computer-Integrated Manufacturing</i> , 2003, 19, 543-553.	6.1	18
146	Sensitivity analysis of the 3-PRS parallel kinematic spindle platform of a serial-parallel machine tool. <i>International Journal of Machine Tools and Manufacture</i> , 2003, 43, 1561-1569.	6.2	95
147	Development of a high-precision straightness measuring system with DVD pick-up head. <i>Measurement Science and Technology</i> , 2003, 14, 47-54.	1.4	37
148	A variable-resolution optical profile measurement system. <i>Measurement Science and Technology</i> , 2002, 13, 190-197.	1.4	12
149	Development of a multiple-microhole aerostatic air bearing system. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 636-643.	1.5	44
150	Development of a powder warming compacting machine with an electrical heating system. <i>Powder Technology</i> , 2002, 127, 267-273.	2.1	4
151	Error Analysis of a Serial-Parallel Type Machine Tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2002, 19, 174-179.	1.5	18
152	Error analysis for a diffraction grating interferometric stylus probing system. <i>Measurement Science and Technology</i> , 2001, 12, 482-490.	1.4	11
153	Development of a low-cost autofocusing probe for profile measurement. <i>Measurement Science and Technology</i> , 2001, 12, 2137-2146.	1.4	100
154	Optimal shape error analysis of the matching image for a free-form surface. <i>Robotics and Computer-Integrated Manufacturing</i> , 2001, 17, 215-222.	6.1	36
155	A 6-degree-of-freedom measurement system for the accuracy of X-Y stages. <i>Precision Engineering</i> , 2000, 24, 15-23.	1.8	95
156	A laser straightness measurement system using optical fiber and modulation techniques. <i>International Journal of Machine Tools and Manufacture</i> , 2000, 40, 2073-2081.	6.2	39
157	The development of a low-cost focusing probe for profile measurement. <i>Measurement Science and Technology</i> , 2000, 11, N1-N7.	1.4	53
158	Analysis of minimum zone sphericity error using minimum potential energy theory. <i>Precision Engineering</i> , 1999, 23, 65-72.	1.8	54
159	Evaluation method for spatial straightness errors based on minimum zone condition. <i>Precision Engineering</i> , 1999, 23, 264-272.	1.8	26
160	Intelligent planning of CAD-directed inspection for coordinate measuring machines. <i>Computer Integrated Manufacturing Systems</i> , 1998, 11, 43-51.	0.1	46
161	A six-degree-of-freedom measurement system for the motion accuracy of linear stages. <i>International Journal of Machine Tools and Manufacture</i> , 1998, 38, 155-164.	6.2	92
162	An optical flatness measurement system for medium-sized surface plates. <i>Precision Engineering</i> , 1997, 21, 102-112.	1.8	7

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163	CCD-based CMM Geometrical error measurement using fourier phase shift algorithm. International Journal of Machine Tools and Manufacture, 1997, 37, 579-590.	6.2	21
164	A new minimum zone method for evaluating straightness errors. Precision Engineering, 1993, 15, 158-165.	1.8	100
165	A new minimum zone method for evaluating flatness errors. Precision Engineering, 1993, 15, 25-32.	1.8	57
166	In-process dimensional control of the workpiece during turning. Precision Engineering, 1991, 13, 27-32.	1.8	21
167	Fiber image techniques in digital stereomicroscopy. , 0, , .		0