

Antti Lassila

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A comparison of traceable spatial angle autocollimator calibrations performed by PTB and VTT MIKES. <i>Metrologia</i> , 2022, 59, 024002.	1.2	5
2	In-Line Measurement of the Surface Texture of Rolls Using Long Slender Piezoresistive Microprobes. <i>Sensors</i> , 2021, 21, 5955.	3.8	11
3	Calibration of diameter standards (EURAMET.L-K4.2015). <i>Metrologia</i> , 2021, 58, 04004.	1.2	0
4	Multi-sensor optical profilometer for measurement of large freeforms at nm-level uncertainty. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 045030.	1.6	2
5	Step height standards based on self-assembly for 3D metrology of biological samples. <i>Measurement Science and Technology</i> , 2020, 31, 094008.	2.6	2
6	Calibration of 1-D CMM artefacts: step gauges (EURAMET.L-K5.2016). <i>Metrologia</i> , 2020, 57, 04002.	1.2	2
7	Linking the optical and the mechanical measurements of dimension by a Newton's rings method. <i>Metrologia</i> , 2019, 56, 025008.	1.2	5
8	High-accuracy autocollimator calibration by interferometric 2D angle generator. , 2019, , .		3
9	Metrological characterization methods for confocal chromatic line sensors and optical topography sensors. <i>Measurement Science and Technology</i> , 2018, 29, 054008.	2.6	19
10	Toward SI Traceability of a Monte Carlo Radiative Transfer Model in the Visible Range. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1360-1373.	6.3	0
11	Interferometric step gauge for CMM verification. <i>Measurement Science and Technology</i> , 2018, 29, 074012.	2.6	5
12	Recent developments in traceable dimensional measurements. <i>Measurement Science and Technology</i> , 2018, 29, 090101.	2.6	1
13	High accuracy step gauge interferometer. <i>Measurement Science and Technology</i> , 2018, 29, 054003.	2.6	10
14	Angle comparison using an autocollimator. <i>Metrologia</i> , 2018, 55, 04001.	1.2	3
15	Online measurement of optical fibre geometry during manufacturing. , 2018, , .		0
16	Atomic force microscope adhesion measurements and atomistic molecular dynamics simulations at different humidities. <i>Measurement Science and Technology</i> , 2017, 28, 034004.	2.6	6
17	DNA origami structures as calibration standards for nanometrology. <i>Measurement Science and Technology</i> , 2017, 28, 034001.	2.6	11
18	Interferometric 2D small angle generator for autocollimator calibration. <i>Metrologia</i> , 2017, 54, 253-261.	1.2	19

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19	Application of Monte Carlo simulation for estimation of uncertainty of four-point roundness measurements of rolls. Precision Engineering, 2017, 48, 181-190.	3.4	32
20	Intercomparison of flatness measurements of an optical flat at apertures of up to 150µm in diameter. Metrologia, 2017, 54, 85-93.	1.2	7
21	Fabrication of a thin silicon detector with excellent thickness uniformity. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 27-31.	1.6	2
22	Measurement of gauge blocks by interferometry. Metrologia, 2016, 53, 04003-04003.	1.2	4
23	Wave front and phase correction for double-ended gauge block interferometry. Metrologia, 2015, 52, 708-716.	1.2	5
24	Traceable methods for vertical scale characterization of dynamic stroboscopic scanning white-light interferometer measurements. Applied Optics, 2015, 54, 10397.	2.1	3
25	MIKES™ primary phase stepping gauge block interferometer. Measurement Science and Technology, 2015, 26, 084009.	2.6	12
26	Interference Cancellation for Hollow-Core Fiber Reference Cells. IEEE Transactions on Instrumentation and Measurement, 2015, , 1-1.	4.7	1
27	The CCL-K11 ongoing key comparison. Final report for the year 2012. Metrologia, 2015, 52, 04005-04005.	1.2	0
28	Final report on EURAMET.L-S21: 'Supplementary comparison of parallel thread gauges'. Metrologia, 2015, 52, 04003-04003.	1.2	1
29	Final report on APMP regional key comparison APMP.L-K6: Calibration of ball plate and hole plate. Metrologia, 2014, 51, 04003-04003.	1.2	4
30	Final report on supplementary comparison EURAMET.L-S20: Comparison of laser distance measuring instruments. Metrologia, 2014, 51, 04002-04002.	1.2	3
31	Scatterometric characterization of diffractive optical elements. Proceedings of SPIE, 2014, , .	0.8	0
32	Interference cancellation for hollow-core fiber reference cells. , 2014, , .		1
33	Intercomparison of lateral scales of scanning electron microscopes and atomic force microscopes in research institutes in Northern Europe. Measurement Science and Technology, 2014, 25, 044013.	2.6	4
34	Scatterometer for characterization of diffractive optical elements. Measurement Science and Technology, 2014, 25, 044019.	2.6	5
35	Sub-kHz traceable characterization of stroboscopic scanning white light interferometer. , 2014, , .		2
36	Traceable Quasi-dynamic Stroboscopic Scanning White Light Interferometry. , 2014, , 491-496.		0

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37	Static and (quasi)dynamic calibration of stroboscopic scanning white light interferometer. , 2013, , .		1
38	Quasidynamic calibration of stroboscopic scanning white light interferometer with a transfer standard. Optical Engineering, 2013, 52, 124104.	1.0	7
39	Final report on RMO key comparison EURAMET.L-K6: CMM 2-D artifact: ball plate. Metrologia, 2013, 50, 04001-04001.	1.2	1
40	Equipment for the calibration of squareness standards. Measurement Science and Technology, 2012, 23, 094009.	2.6	1
41	Comparison of the performance of the next generation of optical interferometers. Metrologia, 2012, 49, 455-467.	1.2	75
42	Interferometric 30 m bench for calibrations of 1D scales and optical distance measuring instruments. Measurement Science and Technology, 2012, 23, 094017.	2.6	10
43	Final report on inter-RMO Key Comparison EUROMET.L-K5.2004: Calibration of a step gauge. Metrologia, 2012, 49, 04008-04008.	1.2	4
44	MIKES fibre-coupled differential dynamic line scale interferometer. Measurement Science and Technology, 2012, 23, 094011.	2.6	9
45	High-precision diode-laser-based temperature measurement for air refractive index compensation. Applied Optics, 2011, 50, 5990.	2.1	18
46	Measurement strategies and uncertainty estimations for pitch and step height calibrations by metrological AFM. Proceedings of SPIE, 2011, , .	0.8	1
47	Design and performance of an advanced metrology building for MIKES. Measurement: Journal of the International Measurement Confederation, 2011, 44, 399-425.	5.0	30
48	A method for linearization of a laser interferometer down to the picometre level with a capacitive sensor. Measurement Science and Technology, 2011, 22, 094027.	2.6	16
49	Design and characterization of MIKES metrological atomic force microscope. Precision Engineering, 2010, 34, 735-744.	3.4	56
50	Final report on EUROMET.L-S15.a (EUROMET Project 925): Intercomparison on step height standards and 1D gratings. Metrologia, 2010, 47, 04006-04006.	1.2	10
51	High accuracy laser diffractometer: angle-scale traceability by the error separation method with a grating. Measurement Science and Technology, 2009, 20, 084020.	2.6	18
52	Final report on the thermal expansion coefficient of gauge blocks (APMP.L-S1). Metrologia, 2008, 45, 04001-04001.	1.2	2
53	Dynamical Nonlinearities in Piezoelectric Materials. Materials Research Society Symposia Proceedings, 2007, 1034, 78.	0.1	0
54	Calibration of a commercial AFM: traceability for a coordinate system. Measurement Science and Technology, 2007, 18, 395-403.	2.6	44

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55	High-accuracy automatic machine vision based calibration of micrometers. Measurement Science and Technology, 2007, 18, 1655-1660.	2.6	17
56	Traceability of Laser Frequency Calibrations at MIKES. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 500-504.	4.7	16
57	Frequency stabilization of a diode-pumped nd:yag laser at 532 nm to iodine by using third-harmonic technique. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 284-287.	4.7	32
58	Acoustic method for the determination of the effective temperature and refractive index of air. , 2003, 5190, 316.		4
59	Design of a calibration machine for optical two-dimensional length standards. , 2002, , .		2
60	International comparison of eight semiconductor lasers stabilized on $^{127}I_2$ at $\lambda = 633$ nm. Metrologia, 2000, 37, 329-339.	1.2	15
61	International comparison of He-Ne lasers stabilized with $^{127}I_2$ at $\lambda = 633$ nm: Comparison of the fifth- and third-harmonic locking techniques. Metrologia, 2000, 37, 701-707.	1.2	1
62	Method for characterization of filter radiometers. Applied Optics, 1999, 38, 1709.	2.1	7
63	A new optical method for high-accuracy determination of aperture area. Metrologia, 1998, 35, 369-372.	1.2	29
64	<title>Interferometric refractometer with a variable-length vacuum cylinder</title>. , 1998, , .		1
65	An optical method for direct determination of the radiometric aperture area at high accuracy. Measurement Science and Technology, 1997, 8, 973-977.	2.6	34
66	Intercomparison of cryogenic radiometers using silicon trap detectors. Measurement Science and Technology, 1997, 8, 123-127.	2.6	8
67	Comparison of national standards of Russia and Finland for the unit of length. Measurement Techniques, 1997, 40, 289-293.	0.6	0
68	Comparison of length standards between the CMA and the VNIIM. Metrologia, 1996, 33, 29-33.	1.2	1
69	Radiometric realization of the candela with a trap detector. Metrologia, 1995, 32, 689-692.	1.2	25
70	Interferometers for calibration of length standards. Optical Engineering, 1995, 34, 2619.	1.0	3
71	Interferometer for calibration of graduated line scales with a moving CCD camera as a line detector. Applied Optics, 1994, 33, 3600.	2.1	22
72	<title>Interferometric length measurements</title>. Proceedings of SPIE, 1993, , .	0.8	3