Michael Krumrey

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mechanical Stability and Fibrinolytic Resistance of Clots Containing Fibrin, DNA, and Histones. Journal of Biological Chemistry, 2013, 288, 6946-6956.	3.4	216
2	Innovation in detection of microparticles and exosomes. Journal of Thrombosis and Haemostasis, 2013, 11, 36-45.	3.8	203
3	Determination of the Avogadro Constant by Counting the Atoms in a Ammi:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mmultiscripts><mml:mi>Si</mml:mi><mml:mprescripts></mml:mprescripts><mml:none /><mml:mn>28</mml:mn></mml:none </mml:mmultiscripts> Crystal. Physical Review Letters, 2011, 106,	7.8	183
4	BAMline: the first hard X-ray beamline at BESSY II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 703-706.	1.6	179
5	High-accuracy detector calibration at the PTB four-crystal monochromator beamline. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1175-1178.	1.6	166
6	Counting the atoms in a ²⁸ Si crystal for a new kilogram definition. Metrologia, 2011, 48, S1-S13.	1.2	160
7	Gas detectors for x-ray lasers. Journal of Applied Physics, 2008, 103, .	2.5	147
8	Improved measurement results for the Avogadro constant using a ²⁸ Si-enriched crystal. Metrologia, 2015, 52, 360-375.	1.2	143
9	Multilayer xâ€ray mirrors: Interfacial roughness, scattering, and image quality. Journal of Applied Physics, 1993, 74, 107-118.	2.5	140
10	Critical review of the current status of thickness measurements for ultrathin SiO2 on Si Part V: Results of a CCQM pilot study. Surface and Interface Analysis, 2004, 36, 1269-1303.	1.8	138
11	A quarterâ€century of metrology using synchrotron radiation by PTB in Berlin. Physica Status Solidi (B): Basic Research, 2009, 246, 1415-1434.	1.5	117
12	Indications of radiation damage in ferredoxin microcrystals using high-intensity X-FEL beams. Journal of Synchrotron Radiation, 2015, 22, 225-238.	2.4	110
13	Towards traceable size determination of extracellular vesicles. Journal of Extracellular Vesicles, 2014, 3, .	12.2	104
14	Schottky type photodiodes as detectors in the VUV and soft x-ray range. Applied Optics, 1988, 27, 4336.	2.1	100
15	Layout and first XRF applications of the BAMlineat BESSY II. X-Ray Spectrometry, 2005, 34, 160-163.	1.4	95
16	A new ²⁸ Si single crystal: counting the atoms for the new kilogram definition. Metrologia, 2017, 54, 693-715.	1.2	92
17	Traceable size determination of nanoparticles, a comparison among European metrology institutes. Measurement Science and Technology, 2012, 23, 125005.	2.6	82
18	Structure and performance of Si/Mo multilayer mirrors for the extreme ultraviolet. Journal of Applied Physics, 1994, 76, 2144-2156.	2.5	76

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19	High precision soft xâ€ray reflectometer. Review of Scientific Instruments, 1995, 66, 2248-2250.	1.3	73
20	Thickness determination for Cu and Ni nanolayers: Comparison of completely reference-free fundamental parameter-based X-ray fluorescence analysis and X-ray reflectometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 505-510.	2.9	71
21	Ground-based calibration and characterization of the Fermi gamma-ray burst monitor detectors. Experimental Astronomy, 2009, 24, 47-88.	3.7	68
22	Surface layer determination for the Si spheres of the Avogadro project. Metrologia, 2011, 48, S62-S82.	1.2	65
23	Characterization of an in-vacuum PILATUS 1M detector. Journal of Synchrotron Radiation, 2014, 21, 529-536.	2.4	64
24	Observation of Electro-Optical Effects in Blue Phase Systems. Molecular Crystals and Liquid Crystals, 1983, 99, 99-105.	0.8	63
25	The PTB high-accuracy spectral responsivity scale in the VUV and x-ray range. Metrologia, 2006, 43, S125-S129.	1.2	63
26	Selfâ€calibration of semiconductor photodiodes in the soft xâ€ray region. Review of Scientific Instruments, 1992, 63, 797-801.	1.3	62
27	Plane grating monochromator beamline for VUV radiometry. Review of Scientific Instruments, 1994, 65, 3229-3232.	1.3	54
28	A comparison of techniques for size measurement of nanoparticles in cell culture medium. Analytical Methods, 2016, 8, 5272-5282.	2.7	52
29	Calibration and characterization of semiconductor X-ray detectors with synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 364-368.	1.6	48
30	Reproducibility in X-ray reflectometry: results from the first world-wide round-robin experiment. Journal of Applied Crystallography, 2008, 41, 143-152.	4.5	47
31	Design of a Four-Crystal Monochromator Beamline for Radiometry at BESSY II. Journal of Synchrotron Radiation, 1998, 5, 6-9.	2.4	45
32	Measuring the size and density of nanoparticles by centrifugal sedimentation and flotation. Analytical Methods, 2018, 10, 1725-1732.	2.7	44
33	Hollow organosilica beads as reference particles for optical detection of extracellular vesicles. Journal of Thrombosis and Haemostasis, 2018, 16, 1646-1655.	3.8	44
34	Cryogenic radiometry in the hard x-ray range. Metrologia, 2008, 45, 577-585.	1.2	43
35	Morphology–Function Relationship of Thermoelectric Nanocomposite Films from PEDOT:PSS with Silicon Nanoparticles. Advanced Electronic Materials, 2017, 3, 1700181.	5.1	43
36	Synchrotron radiation-based x-ray reflection and scattering techniques for dimensional nanometrology. Measurement Science and Technology, 2011, 22, 094032.	2.6	41

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37	Complete characterization of a Si(Li) detector in the photon energy range 0.9–5 keV. Review of Scientific Instruments, 1989, 60, 2287-2290.	1.3	40
38	The X-ray response of CdZnTe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 484, 242-250.	1.6	39
39	Ultraâ€ŧhin SiO ₂ on Si IX: absolute measurements of the amount of silicon oxide as a thickness of SiO ₂ on Si. Surface and Interface Analysis, 2009, 41, 430-439.	1.8	39
40	Direct structural characterisation of line gratings with grazing incidence small-angle x-ray scattering. Review of Scientific Instruments, 2012, 83, 103906.	1.3	39
41	X-ray detector calibration in the PTB radiometry laboratory at the electron storage ring BESSY II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 480-483.	1.6	37
42	Depth-Dependent Structural Changes in PS- <i>b</i> -P2VP Thin Films Induced by Annealing. Macromolecules, 2014, 47, 5719-5727.	4.8	36
43	ASAXS study of CaF2nanoparticles embedded in a silicate glass matrix. Journal of Applied Crystallography, 2014, 47, 60-66.	4.5	35
44	Measurement of the x-ray mass energy-absorption coefficient of air using 3 keV to 10 keV synchrotron radiation. Physics in Medicine and Biology, 2006, 51, 5125-5150.	3.0	34
45	Characterization of the PILATUS photon-counting pixel detector for X-ray energies from 1.75 keV to 60 keV. Journal of Physics: Conference Series, 2013, 425, 062001.	0.4	34
46	Radiometry with synchrotron radiation at the PTB laboratory at Bessy ii. Synchrotron Radiation News, 2002, 15, 23-29.	0.8	33
47	Evolution of Size and Optical Properties of Upconverting Nanoparticles during High-Temperature Synthesis. Journal of Physical Chemistry C, 2018, 122, 28958-28967.	3.1	33
48	Electron-beam-deposited Mo/Si and MoxSiy/Si multilayer x-ray mirrors and gratings. Optical Engineering, 1994, 33, 1314.	1.0	32
49	Adaptive Silicon Monochromators for High-Power Insertion Devices. Tests at CHESS, ESRF and HASYLAB. Journal of Synchrotron Radiation, 1995, 2, 1-5.	2.4	30
50	The Maximum Low-Dose RBE of 17.4 and 40 keV Monochromatic X Rays for the Induction of Dicentric Chromosomes in Human Peripheral Lymphocytes. Radiation Research, 2003, 160, 499-504.	1.5	30
51	Effect of fluorescent staining on size measurements of polymeric nanoparticles using DLS and SAXS. Analytical Methods, 2015, 7, 9785-9790.	2.7	30
52	NICER instrument detector subsystem: description and performance. Proceedings of SPIE, 2016, , .	0.8	29
53	Design of a Nanometric AlTi Additive for MgB ₂ -Based Reactive Hydride Composites with Superior Kinetic Properties. Journal of Physical Chemistry C, 2018, 122, 7642-7655.	3.1	29
54	Thermal stability of Mo/Si multilayer soft-X-ray mirrors fabricated by electron-beam evaporation. Applied Physics A: Solids and Surfaces, 1994, 58, 371-376.	1.4	28

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55	Thickness determination for SiO2 films on Si by X-ray reflectometry at the Si K edge. Thin Solid Films, 2004, 459, 241-244.	1.8	28
56	Influence of a carbon over-coat on the X-ray reflectance of XEUS mirrors. Optics Communications, 2007, 279, 101-105.	2.1	28
57	Traceable size determination of PMMA nanoparticles based on Small Angle X-ray Scattering (SAXS). Journal of Physics: Conference Series, 2010, 247, 012027.	0.4	28
58	Reconstructing detailed line profiles of lamellar gratings from GISAXS patterns with a Maxwell solver. Journal of Applied Crystallography, 2017, 50, 1524-1532.	4.5	28
59	Grazing-incidence small-angle X-ray scattering (GISAXS) on small periodic targets using large beams. IUCrJ, 2017, 4, 431-438.	2.2	28
60	Number Concentration of Gold Nanoparticles in Suspension: SAXS and spICPMS as Traceable Methods Compared to Laboratory Methods. Nanomaterials, 2019, 9, 502.	4.1	28
61	Dicentric chromosomes in monolayers of human lymphocytes produced by monochromatized synchrotron radiation with photon energies from 1.83�keV to 17.4�keV. Radiation and Environmental Biophysics, 2004, 43, 1-6.	1.4	27
62	Size Determination of a Liposomal Drug by Small-Angle X-ray Scattering Using Continuous Contrast Variation. Langmuir, 2016, 32, 772-778.	3.5	27
63	PTB radiometry laboratory at the BESSY II electron storage ring. , 1998, , .		26
64	Quantum efficiencies of gold and copper photocathodes in the VUV and X-ray range. Metrologia, 2000, 37, 485-488.	1.2	26
65	The X-ray response of TlBr. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 497, 370-380.	1.6	26
66	High-efficiency B_4C/Mo_2C alternate multilayer grating for monochromators in the photon energy range from 07 to 34  keV. Optics Letters, 2014, 39, 2141.	3.3	26
67	A comparison of future realizations of the kilogram. Metrologia, 2018, 55, T1-T7.	1.2	26
68	Characterization of IgGâ€proteinâ€coated polymeric nanoparticles using complementary particle sizing techniques. Surface and Interface Analysis, 2014, 46, 663-667.	1.8	24
69	Experimental determination of the oxygen K-shell fluorescence yield using thin SiO 2 and Al 2 O 3 foils. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 124, 94-98.	2.9	24
70	Multilayerâ€coated echelle gratings for soft x rays and extreme ultraviolet. Review of Scientific Instruments, 1995, 66, 2147-2150.	1.3	23
71	Measurement of the mass energy-absorption coefficient of air for x-rays in the range from 3 to 60 keV. Physics in Medicine and Biology, 2012, 57, 8231-8247.	3.0	23
72	Reference materials and representative test materials to develop nanoparticle characterization methods: the NanoChOp project case. Frontiers in Chemistry, 2015, 3, 56.	3.6	23

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73	Influence of the electrode nano/microstructure on the electrochemical properties of graphite in aluminum batteries. Journal of Materials Chemistry A, 2018, 6, 22673-22680.	10.3	23
74	Self alibration of the same silicon photodiode in the visible and soft xâ€ray ranges. Review of Scientific Instruments, 1995, 66, 4736-4737.	1.3	21
75	Correlated diffuse x-ray scattering from periodically nanostructured surfaces. Physical Review B, 2016, 94, .	3.2	21
76	<title>Precision soft x-ray reflectometry of curved multilayer optics</title> . , 1992, , .		20
77	Electron probe microanalysis (EPMA) measurement of thin-film thickness in the nanometre range. Analytical and Bioanalytical Chemistry, 2002, 374, 631-634.	3.7	20
78	Detector Calibration and Measurement of Fundamental Parameters for X-Ray Spectrometry. Mikrochimica Acta, 2006, 155, 275-278.	5.0	19
79	Oxide Layer Mass Determination at the Silicon Sphere of the Avogadro Project. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 891-896.	4.7	19
80	Mixed phase silicon oxide layers for thin-film silicon solar cells. Materials Research Society Symposia Proceedings, 2011, 1321, 349.	0.1	19
81	Adaptive xâ€ray mirror prototype: First results (invited). Review of Scientific Instruments, 1995, 66, 2048-2052.	1.3	18
82	Development and realization of non-periodic W/Si multilayer mirrors for 5–14keV X-ray plasma diagnostic. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 687-694.	1.6	18
83	Inter-laboratory comparison on the size and stability of monodisperse and bimodal synthetic reference particles for standardization of extracellular vesicle measurements. Measurement Science and Technology, 2016, 27, 035701.	2.6	18
84	Structural Study of Carbon-Coated TiO ₂ Anatase Nanoparticles as High-Performance Anode Materials for Na-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7142-7151.	5.1	18
85	Broad-band efficiency calibration of ITER bolometer prototypes using Pt absorbers on SiN membranes. Review of Scientific Instruments, 2013, 84, 123501.	1.3	17
86	Nanoparticle characterization by continuous contrast variation in small-angle X-ray scattering with a solvent density gradient. Journal of Applied Crystallography, 2015, 48, 20-28.	4.5	17
87	Assessing Optical and Electrical Properties of Highly Active IrO <i>_x</i> Catalysts for the Electrochemical Oxygen Evolution Reaction via Spectroscopic Ellipsometry. ACS Catalysis, 2020, 10, 14210-14223.	11.2	17
88	Radiation hardness of molybdenum silicon multilayers designed for use in a soft-x-ray projection lithography system. Applied Optics, 1993, 32, 6991.	2.1	15
89	X-ray pencil beam facility for optics characterization. Proceedings of SPIE, 2010, , .	0.8	15
90	An accurate determination of the Kâ€shell Xâ€ray fluorescence yield of silicon. X-Ray Spectrometry, 2012, 41, 164-171.	1.4	15

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91	Calibration measurements on the DEPFET Detectors for the MIXS instrument on BepiColombo. Experimental Astronomy, 2014, 37, 525-538.	3.7	15
92	Combining HR-TEM and XPS to elucidate the core–shell structure of ultrabright CdSe/CdS semiconductor quantum dots. Scientific Reports, 2020, 10, 20712.	3.3	15
93	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. Nanoscale, 2022, 14, 4690-4704.	5.6	15
94	Semiconductor photodiodes in the VUV: Determination of layer thicknesses and design criteria for improved devices. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 288, 114-118.	1.6	14
95	The hard X-ray response of HgI2. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 479, 535-547.	1.6	14
96	Near monochromatic X-rays for digital slot-scan mammography: initial findings. European Radiology, 2004, 14, 1641-6.	4.5	14
97	Realisation and metrological characterisation of thickness standards below 100�nm. Applied Physics A: Materials Science and Processing, 2004, 78, 645-649.	2.3	14
98	Simultaneous size and density determination of polymeric colloids by continuous contrast variation in small angle X-ray scattering. European Polymer Journal, 2016, 81, 641-649.	5.4	14
99	<title>Microchannel-plate-based x-ray optics</title> . , 1999, , .		14
100	The international VAMAS project on X-ray reflectivity measurements for evaluation of thin films and multilayers — Preliminary results from the second round-robin. Thin Solid Films, 2008, 516, 7962-7966.	1.8	13
101	Photoelectricâ€enhanced radiation therapy with quasiâ€monochromatic computed tomography. Medical Physics, 2009, 36, 2107-2117.	3.0	13
102	Design, fabrication, and characterization of silicon pore optics for ATHENA/IXO. Proceedings of SPIE, 2011, , .	0.8	13
103	Calibration of semiconductor photodiodes as soft xâ€ray detectors. Review of Scientific Instruments, 1989, 60, 2291-2294.	1.3	12
104	Stability of semiconductor photodiodes as VUV detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 282, 701-705.	1.6	12
105	Mo0.5Si0.5/Si multilayer soft xâ€ray mirrors, high thermal stability, and normal incidence reflectivity. Applied Physics Letters, 1993, 63, 2207-2209.	3.3	12
106	Optics of a high power wiggler beamline at the European Synchrotron Radiation Facility. Review of Scientific Instruments, 1995, 66, 1715-1717.	1.3	12
107	High resolution X-ray spectroscopy using a GaAs pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 479, 531-534.	1.6	12
108	Metrological characterization of nanometer film thickness standards for XRR and ellipsometry applications. , 2003, , .		12

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109	Effects of dielectric barrier discharges on silicon surfaces: Surface roughness, cleaning, and oxidation. Journal of Applied Physics, 2009, 105, 073302.	2.5	12
110	First comparison of spectral responsivity in the soft x-ray region. Metrologia, 2012, 49, 501-506.	1.2	12
111	Total synthesis of isotopically enriched Si-29 silica NPs as potential spikes for isotope dilution quantification of natural silica NPs. Journal of Colloid and Interface Science, 2015, 445, 161-165.	9.4	12
112	Silicon pore optics development for ATHENA. Proceedings of SPIE, 2015, , .	0.8	12
113	Resonant Grazing-Incidence Small-Angle X-ray Scattering at the Sulfur K-Edge for Material-Specific Investigation of Thin-Film Nanostructures. Journal of Physical Chemistry Letters, 2018, 9, 3081-3086.	4.6	12
114	Performance and stability of mirror coatings for the ATHENA mission. , 2018, , .		12
115	New x-ray parallel beam facility XPBF 2.0 for the characterization of silicon pore optics. Proceedings of SPIE, 2016, , .	0.8	12
116	Synchrotron-radiation-based cryogenic radiometry in the X-ray range. Metrologia, 2000, 37, 361-364.	1.2	11
117	The X-ray response of InP: Part B, synchrotron radiation measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 491, 444-451.	1.6	11
118	Silicon pore optics developments and status. Proceedings of SPIE, 2012, , .	0.8	11
119	Characterization of eROSITA PNCCDs. IEEE Transactions on Nuclear Science, 2013, 60, 3150-3157.	2.0	11
120	Traceable GISAXS measurements for pitch determination of a 25â€nm self-assembled polymer grating. Journal of Applied Crystallography, 2014, 47, 1912-1920.	4.5	11
121	Status of the silicon pore optics technology. , 2019, , .		11
122	<title>Distributed read-out imaging devices for x-ray imaging spectroscopy</title> . , 2000, , .		10
123	Quantum efficiency measurements of eROSITA pnCCDs. Proceedings of SPIE, 2010, , .	0.8	10
124	Traceable thickness determination of organic nanolayers by X-ray reflectometry. Surface and Interface Analysis, 2014, 46, 911-914.	1.8	10
125	X-ray mirror development and production for the Athena telescope. , 2021, , .		10

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127	Comparison of reference-free X-ray fluorescence analysis and X-ray reflectometry for thickness determination in the nanometer range. Applied Surface Science, 2005, 252, 49-52.	6.1	9
128	Performance characterization of silicon pore optics. , 2006, , .		9
129	Current State of Avogadro \${}^{28}\$Si sphere S8. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1499-1505.	4.7	9
130	Absolute radiant power measurement for the Au M lines of laser-plasma using a calibrated broadband soft X-ray spectrometer with flat-spectral response. Review of Scientific Instruments, 2014, 85, 013503.	1.3	9
131	Multilayer optics for monochromatic high-resolution X-ray imaging diagnostic in a broad photon energy range from 2 keV to 22 keV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 1-4.	1.6	9
132	Silicon pore optics for the ATHENA telescope. Proceedings of SPIE, 2016, , .	0.8	9
133	Silicon pore optics x-ray mirror development for the Athena telescope. , 2021, , .		9
134	ATHENA x-ray optics development and accommodation. , 2021, , .		9
135	Assembly of confocal silicon pore optic mirror modules for Athena. , 2019, , .		9
136	Calibration of a Si(Li) detector system with different radiation entrance windows. Review of Scientific Instruments, 1991, 62, 741-743.	1.3	8
137	Absolute Responsivity of Silicon Photodiodes in the X-ray Range. AIP Conference Proceedings, 2004, , .	0.4	8
138	A cryogenic electrical substitution radiometer for hard X-rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 218-221.	1.6	8
139	Imaging-therapy computed tomography with quasi-monochromatic X-rays. European Journal of Radiology, 2008, 68, S63-S68.	2.6	8
140	Measuring and Interpreting X-ray Fluorescence from Planetary Surfaces. Analytical Chemistry, 2008, 80, 8398-8405.	6.5	8
141	Stacking of silicon pore optics for IXO. Proceedings of SPIE, 2009, , .	0.8	8
142	Silicon pore x-ray optics for IXO. Proceedings of SPIE, 2010, , .	0.8	8
143	ESA-led ATHENA/IXO optics development status. , 2011, , .		8
144	High efficiency multilayer gratings for monochromators in the energy range from 500 eV to 2500 eV. Journal of Physics: Conference Series, 2013, 425, 152012.	0.4	8

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145	Making the ATHENA optics using silicon pore optics. Proceedings of SPIE, 2014, , .	0.8	8
146	Nanoparticle Characterization - Supplementary Comparison on Nanoparticle Size. Metrologia, 2019, 56, 04004.	1.2	8
147	<title>Characterization of YB<formula><inf><roman>66</roman></inf></formula> for use as a soft
x-ray monochromator crystal</title> . , 1993, 1740, 173.		7
148	Characterization of an Al-STJ-based X-ray detector with monochromatized synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 234-236.	1.6	7
149	Development of modular high-performance pore optics for the XEUS x-ray telescope. , 2005, 5900, 297.		7
150	Thin Transmission Photodiodes as Monitor Detectors in the X-ray Range. AIP Conference Proceedings, 2007, , .	0.4	7
151	X-ray imaging glass micro-pore optics. , 2007, , .		7
152	A superconducting wavelength shifter as primary radiometric source standard in the X-ray range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 1536-1543.	1.6	7
153	Single-layer mirrors for advanced research light sources. AIP Conference Proceedings, 2010, , .	0.4	7
154	Changes in silica nanoparticles upon internalisation by cells: size, aggregation/agglomeration state, mass- and number-based concentrations. Toxicology Research, 2018, 7, 172-181.	2.1	7
155	Development of Athena mirror modules. , 2017, , .		7
156	Development of the ATHENA mirror. , 2018, , .		7
157	Upgrade of the x-ray parallel beam facility XPBF 2.0 for characterization of silicon pore optics. , 2020, ,		7
158	<title>Repair of high-performance multilayer coatings</title> . , 1992, , .		6
159	<title>Novel micropore x-ray optics produced with microchannel plate technology</title> . , 2000, 4012, 218.		6
160	High-accuracy x-ray detector calibration at PTB. , 2004, , .		6
161	Metrology, integration, and performance verification of silicon pore optics in Wolter-I configuration. , 2006, 6266, 366.		6
162	Silicon pore optics for astrophysical x-ray missions. Proceedings of SPIE, 2007, , .	0.8	6

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163	Performance prediction and measurement of silicon pore optics. Proceedings of SPIE, 2009, , .	0.8	6
164	Applications of non-periodic multilayer optics for high-resolution x-ray microscopes below 30 keV. Review of Scientific Instruments, 2012, 83, 10E533.	1.3	6
165	Scatterometry reference standards to improve tool matching and traceability in lithographical nanomanufacturing. , 2015, , .		6
166	Characterization of a quadrant diamond transmission X-ray detector including a precise determination of the mean electron–hole pair creation energy. Journal of Synchrotron Radiation, 2018, 25, 407-412.	2.4	6
167	The Athena x-ray optics development and accommodation. , 2021, , .		6
168	The Athena telescope and optics status. , 2017, , .		6
169	Silicon pore optics mirror module production and testing. , 2018, , .		6
170	Extracting dimensional parameters of gratings produced with self-aligned multiple patterning using grazing-incidence small-angle x-ray scattering. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2020, 19, 1.	0.9	6
171	Angular Dependence of Blue Phase Selective Reflection in the Electric Field. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1987, 150, 265-276.	0.3	5
172	An X-ray photon-counting imaging spectrometer based on a Ta absorber with four superconducting tunnel junctions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 278-282.	1.6	5
173	Is there reliable experimental evidence for different dicentric yields in human lymphocytes produced by mammography X-rays free-in-air and within a phantom?. Radiation and Environmental Biophysics, 2005, 44, 17-22.	1.4	5
174	Developments in glass micro pore optics for x-ray applications. , 2006, , .		5
175	Comparison of scattering experiments using synchrotron radiation with Monte Carlo simulations using Geant4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 339-343.	1.6	5
176	Coating of silicon pore optics. Proceedings of SPIE, 2009, , .	0.8	5
177	Nanometrology on gratings with GISAXS: FEM reconstruction and fourier analysis. Proceedings of SPIE, 2014, , .	0.8	5
178	Two-channel high-resolution quasi-monochromatic X-ray imager for Al and Ti plasma. Review of Scientific Instruments, 2018, 89, 113702.	1.3	5
179	Vacuum-compatible photon-counting hybrid pixel detector for wide-angle x-ray scattering, x-ray diffraction, and x-ray reflectometry in the tender x-ray range. Review of Scientific Instruments, 2020, 91, 023102.	1.3	5
180	Installation and commissioning of the silicon pore optics coating facility for the ATHENA mission. , 2019, , .		5

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181	Optical filter for X-ray astronomy CCDs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 334, 229-233.	1.6	4
182	Development of micro-pore optics for x-ray applications. , 2005, , .		4
183	Programmatics of large scale production of silicon pore optics for future x-ray telescopes. , 2006, 6266, 358.		4
184	Development and characterization of coatings on silicon pore optics substrates for the ATHENA Mission. , 2012, , .		4
185	X-ray optics developments at ESA. , 2013, , .		4
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187	Thickness measurement of nm HfO ₂ films. Metrologia, 2021, 58, 08016.	1.2	4
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