

# Michael Krumrey

## List of Publications by Year in descending order

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251  
papers

5,815  
citations

87888

38  
h-index

102487

66  
g-index

253  
all docs

253  
docs citations

253  
times ranked

6019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. <i>Nanoscale</i> , 2022, 14, 4690-4704.	5.6	15
2	Small-angle X-ray scattering: characterization of cubic Au nanoparticles using Debye's scattering formula. <i>Journal of Applied Crystallography</i> , 2022, 55, 993-1001.	4.5	3
3	Thickness measurement of nm HfO <sub>2</sub> films. <i>Metrologia</i> , 2021, 58, 08016.	1.2	4
4	Characterisation of X-ray mirrors based on chromium-iridium tri-layer coatings. , 2021, , .		1
5	Direct Observation of the Xenon Physisorption Process in Mesopores by Combining <i>In Situ</i> Anomalous Small-Angle X-ray Scattering and X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4018-4023.	4.6	4
6	X-ray facility for the characterization of the Athena mirror modules at the ALBA synchrotron. , 2021, , .		3
7	X-ray mirror development and production for the Athena telescope. , 2021, , .		10
8	The Athena x-ray optics development and accommodation. , 2021, , .		6
9	Silicon pore optics x-ray mirror development for the Athena telescope. , 2021, , .		9
10	Impact of annealing on performance of X-ray mirror coatings for Athena. , 2021, , .		1
11	ATHENA x-ray optics development and accommodation. , 2021, , .		9
12	SPO mirror plate production and coating. , 2021, , .		4
13	Assembly of confocal silicon pore optics mirror modules. , 2021, , .		4
14	Small angle x-ray scattering (SAXS). , 2020, , 173-183.		2
15	Assessing Optical and Electrical Properties of Highly Active IrO <sub>x</sub> Catalysts for the Electrochemical Oxygen Evolution Reaction via Spectroscopic Ellipsometry. <i>ACS Catalysis</i> , 2020, 10, 14210-14223.	11.2	17
16	Combining HR-TEM and XPS to elucidate the core-shell structure of ultrabright CdSe/CdS semiconductor quantum dots. <i>Scientific Reports</i> , 2020, 10, 20712.	3.3	15
17	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. <i>Review of Scientific Instruments</i> , 2020, 91, 023102.	1.3	5
18	Status of the Ir and Ir/SiC coating development for the Athena optics. , 2020, , .		3

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19	Upgrade of the x-ray parallel beam facility XPBF 2.0 for characterization of silicon pore optics. , 2020, , .		7
20	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
21	Long-term performance and durability of Ir/B4C multilayer x-ray mirrors: focusing on composition, structure, and reflectivity properties. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, .	1.8	2
22	Structural Study of Carbon-Coated TiO <sub>2</sub> Anatase Nanoparticles as High-Performance Anode Materials for Na-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7142-7151.	5.1	18
23	Distortion analysis of crystalline and locally quasicrystalline 2D photonic structures with grazing-incidence small-angle X-ray scattering. Journal of Applied Crystallography, 2019, 52, 322-331.	4.5	2
24	Number Concentration of Gold Nanoparticles in Suspension: SAXS and spICPMS as Traceable Methods Compared to Laboratory Methods. Nanomaterials, 2019, 9, 502.	4.1	28
25	Nanoparticle Characterization - Supplementary Comparison on Nanoparticle Size. Metrologia, 2019, 56, 04004.	1.2	8
26	Status of the silicon pore optics technology. , 2019, , .		11
27	Silicon pore optics mirror module production and testing. , 2019, , .		4
28	Assembly of confocal silicon pore optic mirror modules for Athena. , 2019, , .		9
29	X-ray reflectometry of a platinum coating as reference sample for the ATHENA coating development. , 2019, , .		0
30	Optics developments for ATHENA. , 2019, , .		4
31	X-ray testing of silicon pore optics. , 2019, , .		10
32	Performance and time stability of Ir/SiC X-ray mirror coatings for ATHENA. , 2019, , .		3
33	Installation and commissioning of the silicon pore optics coating facility for the ATHENA mission. , 2019, , .		5
34	Characterization of a quadrant diamond transmission X-ray detector including a precise determination of the mean electron- $\mu$ hole pair creation energy. Journal of Synchrotron Radiation, 2018, 25, 407-412.	2.4	6
35	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
36	A comparison of future realizations of the kilogram. Metrologia, 2018, 55, T1-T7.	1.2	26

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37	Measuring the size and density of nanoparticles by centrifugal sedimentation and flotation. <i>Analytical Methods</i> , 2018, 10, 1725-1732.	2.7	44
38	Design of a Nanometric AlTi Additive for MgB <sub>2</sub> -Based Reactive Hydride Composites with Superior Kinetic Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7642-7655.	3.1	29
39	Influence of the electrode nano/microstructure on the electrochemical properties of graphite in aluminum batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22673-22680.	10.3	23
40	Evolution of Size and Optical Properties of Upconverting Nanoparticles during High-Temperature Synthesis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28958-28967.	3.1	33
41	Two-channel high-resolution quasi-monochromatic X-ray imager for Al and Ti plasma. <i>Review of Scientific Instruments</i> , 2018, 89, 113702.	1.3	5
42	Resonant Grazing-Incidence Small-Angle X-ray Scattering at the Sulfur K-Edge for Material-Specific Investigation of Thin-Film Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3081-3086.	4.6	12
43	Hollow organosilica beads as reference particles for optical detection of extracellular vesicles. <i>Journal of Thrombosis and Haemostasis</i> , 2018, 16, 1646-1655.	3.8	44
44	Performance and stability of mirror coatings for the ATHENA mission. , 2018, , .		12
45	Development of the ATHENA mirror. , 2018, , .		7
46	Silicon pore optics mirror module production and testing. , 2018, , .		6
47	Integration of the ATHENA mirror modules: development status of the indirect and direct x-ray methods. , 2018, , .		0
48	Reconstructing detailed line profiles of lamellar gratings from GISAXS patterns with a Maxwell solver. <i>Journal of Applied Crystallography</i> , 2017, 50, 1524-1532.	4.5	28
49	Morphology-Function Relationship of Thermoelectric Nanocomposite Films from PEDOT:PSS with Silicon Nanoparticles. <i>Advanced Electronic Materials</i> , 2017, 3, 1700181.	5.1	43
50	Traceable Size and Size Distribution Calibrations of Nanoparticles. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 239-243.	0.8	2
51	A new <sup>28</sup> Si single crystal: counting the atoms for the new kilogram definition. <i>Metrologia</i> , 2017, 54, 693-715.	1.2	92
52	Experimental determination of the effective attenuation length of palladium 3d 5/2 photoelectrons in a magnetron sputtered Pd nanolayer. <i>Surface and Interface Analysis</i> , 2017, 49, 464-468.	1.8	0
53	Grazing-incidence small-angle X-ray scattering (GISAXS) on small periodic targets using large beams. <i>IUCr</i> , 2017, 4, 431-438.	2.2	28
54	Development of Athena mirror modules. , 2017, , .		7

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55	The Athena telescope and optics status. , 2017, , .		6
56	Integration of the Athena mirror modules: development of indirect and x-ray direct AIT methods. , 2017, , .		2
57	Design, development, and performance of x-ray mirror coatings for the ATHENA mission. , 2017, , .		4
58	Measuring silicon pore optics. , 2017, , .		3
59	EUV optical characterization of alternative membrane materials for EUV pellicles. , 2017, , .		2
60	Selective measurement of small metrology targets using CD-GISAXS. , 2017, , .		1
61	Silicon pore optics for future x-ray telescopes. , 2017, , .		0
62	X-ray mirror development and testing for the ATHENA mission. Proceedings of SPIE, 2016, , .	0.8	3
63	The ATHENA optics development. , 2016, , .		3
64	Development and production of a multilayer-coated x-ray reflecting stack for the Athena mission. , 2016, , .		1
65	Silicon pore optics for the ATHENA telescope. Proceedings of SPIE, 2016, , .	0.8	9
66	Experimental determination of the oxygen K-shell fluorescence yield using thin SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> foils. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 124, 94-98.	2.9	24
67	A comparison of techniques for size measurement of nanoparticles in cell culture medium. Analytical Methods, 2016, 8, 5272-5282.	2.7	52
68	Correlated diffuse x-ray scattering from periodically nanostructured surfaces. Physical Review B, 2016, 94, .	3.2	21
69	NICER instrument detector subsystem: description and performance. Proceedings of SPIE, 2016, , .	0.8	29
70	Size Determination of a Liposomal Drug by Small-Angle X-ray Scattering Using Continuous Contrast Variation. Langmuir, 2016, 32, 772-778.	3.5	27
71	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
72	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

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73	New x-ray parallel beam facility XPBF 2.0 for the characterization of silicon pore optics. Proceedings of SPIE, 2016, , .	0.8	12
74	Improved measurement results for the Avogadro constant using a <sup>28</sup> Si-enriched crystal. Metrologia, 2015, 52, 360-375.	1.2	143
75	Reference materials and representative test materials to develop nanoparticle characterization methods: the NanoChOp project case. Frontiers in Chemistry, 2015, 3, 56.	3.6	23
76	Scatterometry reference standards to improve tool matching and traceability in lithographical nanomanufacturing. , 2015, , .		6
77	The Athena optics. , 2015, , .		0
78	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
79	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
80	New reference and test materials for the characterization of energy dispersive X-ray spectrometers at scanning electron microscopes. Analytical and Bioanalytical Chemistry, 2015, 407, 3045-3053.	3.7	1
81	Indications of radiation damage in ferredoxin microcrystals using high-intensity X-FEL beams. Journal of Synchrotron Radiation, 2015, 22, 225-238.	2.4	110
82	Effect of fluorescent staining on size measurements of polymeric nanoparticles using DLS and SAXS. Analytical Methods, 2015, 7, 9785-9790.	2.7	30
83	Silicon pore optics development for ATHENA. Proceedings of SPIE, 2015, , .	0.8	12
84	A diffraction effect in X-ray area detectors. Journal of Applied Crystallography, 2014, 47, 378-383.	4.5	1
85	Traceable GISAXS measurements for pitch determination of a 25 nm self-assembled polymer grating. Journal of Applied Crystallography, 2014, 47, 1912-1920.	4.5	11
86	ASAXS study of CaF <sub>2</sub> nanoparticles embedded in a silicate glass matrix. Journal of Applied Crystallography, 2014, 47, 60-66.	4.5	35
87	Preparing the optics technology to observe the hot universe. , 2014, , .		1
88	Making the ATHENA optics using silicon pore optics. Proceedings of SPIE, 2014, , .	0.8	8
89	Characterization of an in-vacuum PILATUS 1M detector. Journal of Synchrotron Radiation, 2014, 21, 529-536.	2.4	64
90	Nanometrology on gratings with GISAXS: FEM reconstruction and fourier analysis. Proceedings of SPIE, 2014, , .	0.8	5

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91	High-efficiency B <sub>4</sub> C/Mo <sub>2</sub> C alternate multilayer grating for monochromators in the photon energy range from 07 to 34 keV. <i>Optics Letters</i> , 2014, 39, 2141.	3.3	26
92	Absolute radiant power measurement for the Au M lines of laser-plasma using a calibrated broadband soft X-ray spectrometer with flat-spectral response. <i>Review of Scientific Instruments</i> , 2014, 85, 013503.	1.3	9
93	Characterization of IgG-coated polymeric nanoparticles using complementary particle sizing techniques. <i>Surface and Interface Analysis</i> , 2014, 46, 663-667.	1.8	24
94	Traceable thickness determination of organic nanolayers by X-ray reflectometry. <i>Surface and Interface Analysis</i> , 2014, 46, 911-914.	1.8	10
95	Multilayer optics for monochromatic high-resolution X-ray imaging diagnostic in a broad photon energy range from 2 keV to 22 keV. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 767, 1-4.	1.6	9
96	Calibration measurements on the DEPFET Detectors for the MIXS instrument on BepiColombo. <i>Experimental Astronomy</i> , 2014, 37, 525-538.	3.7	15
97	Depth-Dependent Structural Changes in PS- <i>b</i> -P2VP Thin Films Induced by Annealing. <i>Macromolecules</i> , 2014, 47, 5719-5727.	4.8	36
98	Towards traceable size determination of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2014, 3, .	12.2	104
99	Determination of line profiles on nano-structured surfaces using EUV and x-ray scattering. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
100	Determination of line profiles on photomasks using DUV, EUV, and x-ray scattering. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
101	Development of a scatterometry reference standard. , 2014, , .		0
102	Innovation in detection of microparticles and exosomes. <i>Journal of Thrombosis and Haemostasis</i> , 2013, 11, 36-45.	3.8	203
103	Characterization of eROSITA PNCCDs. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3150-3157.	2.0	11
104	Characterization of the PILATUS photon-counting pixel detector for X-ray energies from 1.75 keV to 60 keV. <i>Journal of Physics: Conference Series</i> , 2013, 425, 062001.	0.4	34
105	Mechanical Stability and Fibrinolytic Resistance of Clots Containing Fibrin, DNA, and Histones. <i>Journal of Biological Chemistry</i> , 2013, 288, 6946-6956.	3.4	216
106	X-ray optics developments at ESA. , 2013, , .		4
107	Broad-band efficiency calibration of ITER bolometer prototypes using Pt absorbers on SiN membranes. <i>Review of Scientific Instruments</i> , 2013, 84, 123501.	1.3	17
108	Current State of Avogadro <sup>28</sup> Si sphere S8. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 1499-1505.	4.7	9

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109	Aberration-free silicon pore x-ray optics. Proceedings of SPIE, 2013, , .	0.8	4
110	X-ray pencil beam characterization of silicon pore optics. , 2013, , .		2
111	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
112	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
113	First comparison of spectral responsivity in the soft x-ray region. Metrologia, 2012, 49, 501-506.	1.2	12
114	Direct structural characterisation of line gratings with grazing incidence small-angle x-ray scattering. Review of Scientific Instruments, 2012, 83, 103906.	1.3	39
115	State of the Avogadro <sup>28</sup>Si spheres. , 2012, , .		1
116	Silicon pore optics developments and status. Proceedings of SPIE, 2012, , .	0.8	11
117	Traceable size determination of nanoparticles, a comparison among European metrology institutes. Measurement Science and Technology, 2012, 23, 125005.	2.6	82
118	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
119	Development and characterization of coatings on silicon pore optics substrates for the ATHENA Mission. , 2012, , .		4
120	An accurate determination of the K $\alpha$ shell X-ray fluorescence yield of silicon. X-Ray Spectrometry, 2012, 41, 164-171.	1.4	15
121	The spectral redistribution function of eROSITA PNCCDs. , 2011, , .		2
122	Counting the atoms in a <sup>28</sup> Si crystal for a new kilogram definition. Metrologia, 2011, 48, S1-S13.	1.2	160
123	ESA-led ATHENA/IXO optics development status. , 2011, , .		8
124	Design, fabrication, and characterization of silicon pore optics for ATHENA/IXO. Proceedings of SPIE, 2011, , .	0.8	13
125	EUV and x-ray scattering methods for CD and roughness measurement. Proceedings of SPIE, 2011, , .	0.8	3
126	Determination of the Avogadro Constant by Counting the Atoms in a $\langle \text{Si} \rangle$ Crystal. Physical Review Letters, 2011, 106, 030801.	7.8	183



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127	Mixed phase silicon oxide layers for thin-film silicon solar cells. Materials Research Society Symposia Proceedings, 2011, 1321, 349.	0.1	19
128	Synchrotron radiation-based x-ray reflection and scattering techniques for dimensional nanometrology. Measurement Science and Technology, 2011, 22, 094032.	2.6	41
129	Surface layer determination for the Si spheres of the Avogadro project. Metrologia, 2011, 48, S62-S82.	1.2	65
130	Joint Research on Scatterometry and AFM Wafer Metrology. AIP Conference Proceedings, 2011, , .	0.4	2
131	Performance of multilayer coated silicon pore optics. Proceedings of SPIE, 2010, , .	0.8	0
132	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
133	Quantum efficiency measurements of eROSITA pnCCDs. Proceedings of SPIE, 2010, , .	0.8	10
134	X-ray pencil beam facility for optics characterization. Proceedings of SPIE, 2010, , .	0.8	15
135	Silicon pore x-ray optics for IXO. Proceedings of SPIE, 2010, , .	0.8	8
136	High-accuracy X-ray detector calibration based on cryogenic radiometry. , 2010, , .		2
137	Single-layer mirrors for advanced research light sources. AIP Conference Proceedings, 2010, , .	0.4	7
138	Comparative surface investigations at spherical Si surfaces using optical and X-ray techniques. , 2010, , .		0
139	Performance and spectroscopic behaviour of DePFET macropixels. , 2009, , .		2
140	Effects of dielectric barrier discharges on silicon surfaces: Surface roughness, cleaning, and oxidation. Journal of Applied Physics, 2009, 105, 073302.	2.5	12
141	Characterisation of High-k Containing Nanolayers by Reference-Free X-Ray Fluorescence Analysis with Synchrotron Radiation. ECS Transactions, 2009, 25, 293-300.	0.5	3
142	Fermi GBM: Main detector-level calibration results. , 2009, , .		2
143	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
144	Ground-based calibration and characterization of the Fermi gamma-ray burst monitor detectors. Experimental Astronomy, 2009, 24, 47-88.	3.7	68

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145	A quarter-century of metrology using synchrotron radiation by PTB in Berlin. Physica Status Solidi (B): Basic Research, 2009, 246, 1415-1434.	1.5	117
146	Ultra-thin SiO <sub>2</sub> on Si IX: absolute measurements of the amount of silicon oxide as a thickness of SiO <sub>2</sub> on Si. Surface and Interface Analysis, 2009, 41, 430-439.	1.8	39
147	Comments on Determination of X-ray flux using silicon pin diodes by R. L. Owen et al. (2009). J. Synchrotron Rad. 16, 143-151. Journal of Synchrotron Radiation, 2009, 16, 690-690.	2.4	2
148	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
149	Photoelectric-enhanced radiation therapy with quasi-monochromatic computed tomography. Medical Physics, 2009, 36, 2107-2117.	3.0	13
150	Performance prediction and measurement of silicon pore optics. Proceedings of SPIE, 2009, , .	0.8	6
151	Stacking of silicon pore optics for IXO. Proceedings of SPIE, 2009, , .	0.8	8
152	Coating of silicon pore optics. Proceedings of SPIE, 2009, , .	0.8	5
153	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
154	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
155	Gas detectors for x-ray lasers. Journal of Applied Physics, 2008, 103, .	2.5	147
156	Imaging-therapy computed tomography with quasi-monochromatic X-rays. European Journal of Radiology, 2008, 68, S63-S68.	2.6	8
157	Measuring and Interpreting X-ray Fluorescence from Planetary Surfaces. Analytical Chemistry, 2008, 80, 8398-8405.	6.5	8
158	Status of the international effort on the x-ray crystal density work and its progress towards a measurement of the Avogadro constant. , 2008, , .		0
159	Oxide layer mass determination at the silicon sphere of the Avogadro Project. , 2008, , .		0
160	Cryogenic radiometry in the hard x-ray range. Metrologia, 2008, 45, 577-585.	1.2	43
161	Low atomic number coating for XEUS silicon pore optics. Proceedings of SPIE, 2008, , .	0.8	2
162	Performance of silicon pore optics. , 2008, , .		3

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163	Thin Transmission Photodiodes as Monitor Detectors in the X-ray Range. AIP Conference Proceedings, 2007, , .	0.4	7
164	Calibration of the GLAST Burst Monitor detectors. AIP Conference Proceedings, 2007, , .	0.4	1
165	X-ray imaging glass micro-pore optics. , 2007, , .		7
166	Silicon pore optics for astrophysical x-ray missions. Proceedings of SPIE, 2007, , .	0.8	6
167	Influence of a carbon over-coat on the X-ray reflectance of XEUS mirrors. Optics Communications, 2007, 279, 101-105.	2.1	28
168	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
169	Development and realization of non-periodic W/Si multilayer mirrors for 5â€“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
170	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
171	Developments in glass micro pore optics for x-ray applications. , 2006, , .		5
172	Multi-layer coating development for XEUS. , 2006, , .		2
173	Metrology, integration, and performance verification of silicon pore optics in Wolter-I configuration. , 2006, 6266, 366.		6
174	Influence of growth interruption on the formation of solid-state interfaces. Powder Diffraction, 2006, 21, 122-124.	0.2	0
175	Programmatics of large scale production of silicon pore optics for future x-ray telescopes. , 2006, 6266, 358.		4
176	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
177	The PTB high-accuracy spectral responsivity scale in the VUV and x-ray range. Metrologia, 2006, 43, S125-S129.	1.2	63
178	Detector Calibration and Measurement of Fundamental Parameters for X-Ray Spectrometry. Mikrochimica Acta, 2006, 155, 275-278.	5.0	19
179	Performance characterization of silicon pore optics. , 2006, , .		9
180	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

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181	Development of micro-pore optics for x-ray applications. , 2005, , .		4
182	Development of modular high-performance pore optics for the XEUS x-ray telescope. , 2005, 5900, 297.		7
183	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
184	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
185	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
186	Layout and first XRF applications of the BAMlineat BESSY II. X-Ray Spectrometry, 2005, 34, 160-163.	1.4	95
187	Absolute Responsivity of Silicon Photodiodes in the X-ray Range. AIP Conference Proceedings, 2004, , .	0.4	8
188	Near monochromatic X-rays for digital slot-scan mammography: initial findings. European Radiology, 2004, 14, 1641-6.	4.5	14
189	Dicentric chromosomes in monolayers of human lymphocytes produced by monochromatized synchrotron radiation with photon energies from 1.83keV to 17.4keV. Radiation and Environmental Biophysics, 2004, 43, 1-6.	1.4	27
190	Realisation and metrological characterisation of thickness standards below 100nm. Applied Physics A: Materials Science and Processing, 2004, 78, 645-649.	2.3	14
191	Critical review of the current status of thickness measurements for ultrathin SiO <sub>2</sub> on Si Part V: Results of a CCQM pilot study. Surface and Interface Analysis, 2004, 36, 1269-1303.	1.8	138
192	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
193	Thickness determination for SiO <sub>2</sub> films on Si by X-ray reflectometry at the Si K edge. Thin Solid Films, 2004, 459, 241-244.	1.8	28
194	High-accuracy x-ray detector calibration at PTB. , 2004, , .		6
195	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
196	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
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