

Mathias Richter

List of Publications by Year in descending order

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146
papers

5,734
citations

94433

37
h-index

82547

72
g-index

148
all docs

148
docs citations

148
times ranked

4078
citing authors

#	ARTICLE	IF	CITATIONS
1	Operation of a free-electron laser from the extreme ultraviolet to the water window. <i>Nature Photonics</i> , 2007, 1, 336-342.	31.4	1,455
2	Photoelectric Effect at Ultrahigh Intensities. <i>Physical Review Letters</i> , 2007, 99, 213002.	7.8	237
3	X-ray-laser interaction with matter and the role of multiphoton ionization: Free-electron-laser studies on neon and helium. <i>Physical Review A</i> , 2007, 75, .	2.5	151
4	Gas detectors for x-ray lasers. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	147
5	Spatio-temporal coherence of free electron laser pulses in the soft x-ray regime. <i>Optics Express</i> , 2008, 16, 19909.	3.4	123
6	Extreme Ultraviolet Laser Excites Atomic Giant Resonance. <i>Physical Review Letters</i> , 2009, 102, 163002.	7.8	119
7	A quarter-century of metrology using synchrotron radiation by PTB in Berlin. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1415-1434.	1.5	117
8	Non-linear processes in the interaction of atoms and molecules with intense EUV and X-ray fields from SASE free electron lasers (FELs). <i>Journal of Modern Optics</i> , 2010, 57, 1015-1040.	1.3	110
9	Measurement of gigawatt radiation pulses from a vacuum and extreme ultraviolet free-electron laser. <i>Applied Physics Letters</i> , 2003, 83, 2970-2972.	3.3	107
10	Direct autocorrelation of soft-x-ray free-electron-laser pulses by time-resolved two-photon double ionization of He. <i>Physical Review A</i> , 2009, 80, .	2.5	101
11	Recent developments of wide-bandgap semiconductor based UV sensors. <i>Diamond and Related Materials</i> , 2009, 18, 860-864.	3.9	92
12	Experimental study of atomic 4d giant resonances by photoabsorption and photoelectron spectroscopy: Ba, La, and Ce. <i>Physical Review A</i> , 1989, 39, 5666-5675.	2.5	89
13	Experiments at FLASH. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 601, 108-122.	1.6	88
14	Experimental study of atomic 4d giant resonances by photoabsorption and photoelectron spectroscopy: Sm, Eu, and Gd. <i>Physical Review A</i> , 1989, 40, 7007-7019.	2.5	81
15	Determination of the electron-hole pair creation energy for semiconductors from the spectral responsivity of photodiodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 439, 208-215.	1.6	81
16	Decay channels of core excitation resonances in 3d and 4f metal atoms. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1986, 2, 347-362.	1.0	80
17	Exploring three-dimensional orbital imaging with energy-dependent photoemission tomography. <i>Nature Communications</i> , 2015, 6, 8287.	12.8	76
18	PtSi/n-Si Schottky barrier photodetectors with stable spectral responsivity in the 120-250 nm spectral range. <i>Applied Physics Letters</i> , 1996, 69, 3662-3664.	3.3	69

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19	Measurements of electron-impact ionization cross sections of argon, krypton, and xenon by comparison with photoionization. <i>Physical Review A</i> , 2000, 61, .	2.5	67
20	Resonant Vacuum-Ultraviolet Photoelectron Spectra of Aligned Li Atoms. <i>Physical Review Letters</i> , 1987, 59, 2963-2966.	7.8	63
21	The PTB high-accuracy spectral responsivity scale in the VUV and x-ray range. <i>Metrologia</i> , 2006, 43, S125-S129.	1.2	63
22	Absolute pulse energy measurements of soft x-rays at the Linac Coherent Light Source. <i>Optics Express</i> , 2014, 22, 21214.	3.4	61
23	Multi-photon ionization of molecular nitrogen by femtosecond soft x-ray FEL pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, L299-L304.	1.5	56
24	Pulse energy measurement at the hard x-ray laser in Japan. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	56
25	Decay of the $Ar2s^{*1}and2p^{*1}andKr3p^{*1}and3d^{*1}$ hole states studied by photoelectron-ion coincidence spectroscopy. <i>Physical Review A</i> , 2002, 65, .	2.5	55
26	Development of experimental techniques for the characterization of ultrashort photon pulses of extreme ultraviolet free-electron lasers. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	55
27	Characterization of AlN metal-semiconductor-metal diodes in the spectral range of 44-360nm: Photoemission assessments. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	53
28	Multiphoton ionization of atoms with soft x-ray pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 194005.	1.5	49
29	Ultraviolet and vacuum-ultraviolet detector-based radiometry at the Metrology Light Source. <i>Measurement Science and Technology</i> , 2010, 21, 125101.	2.6	47
30	First observation of photoelectron spectra emitted in the photoionization of a singly charged-ion beam with synchrotron radiation. <i>Physical Review Letters</i> , 1991, 67, 576-579.	7.8	46
31	Characterization of photodiodes as transfer detector standards in the 120 nm to 600 nm spectral range. <i>Metrologia</i> , 1998, 35, 355-362.	1.2	45
32	Performance of the monochromator beamline at FLASH. <i>Journal of Optics</i> , 2007, 9, 749-756.	1.5	45
33	Pre-flight calibration of LYRA, the solar VUV radiometer on board PROBA2. <i>Astronomy and Astrophysics</i> , 2009, 508, 1085-1094.	5.1	39
34	Metrology of pulsed radiation for 157-nm lithography. <i>Applied Optics</i> , 2002, 41, 7167.	2.1	38
35	Radiometric characteristics of new diamond PIN photodiodes. <i>Measurement Science and Technology</i> , 2006, 17, 913-917.	2.6	38
36	New developments on diamond photodetector for VUV solar observations. <i>Semiconductor Science and Technology</i> , 2008, 23, 035026.	2.0	38

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37	Experimental determination of optical constants of MgF ₂ and AlF ₃ thin films in the vacuum ultra-violet wavelength region (60–124nm), and its application to optical designs. <i>Optics Communications</i> , 2010, 283, 1351-1358.	2.1	38
38	Source and detector calibration in the UV and VUV at BESSY II. <i>Metrologia</i> , 2003, 40, S107-S110.	1.2	37
39	An X-ray gas monitor for free-electron lasers. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1092-1100.	2.4	37
40	Photoionization in Ground-State and in Laser-Excited Sodium Atoms. <i>Europhysics Letters</i> , 1990, 12, 35-40.	2.0	36
41	Current capabilities at the Metrology Light Source. <i>Metrologia</i> , 2012, 49, S146-S151.	1.2	36
42	Two-Photon Inner-Shell Ionization in the Extreme Ultraviolet. <i>Physical Review Letters</i> , 2010, 105, 013001.	7.8	35
43	Quantum efficiency of cesium iodide photocathodes in the 120–220nm spectral range traceable to a primary detector standard. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 438, 94-103.	1.6	34
44	Autoionization of the Ca 2p _{5/2} core resonances: Breakdown of the spectator model. <i>Physical Review A</i> , 1989, 39, 4319-4322.	2.5	33
45	Autoionization of the Ar, K and Ca 2p _{5/2} , 3d-resonances: validity of the spectator model. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990, 51, 407-416.	1.7	32
46	Method based on atomic photoionization for spot-size measurement on focused soft x-ray free-electron laser beams. <i>Applied Physics Letters</i> , 2006, 89, 221114.	3.3	32
47	Performance of diamond detectors for VUV applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 568, 398-405.	1.6	31
48	Time-Dependent Multiphoton Ionization of Xenon in the Soft-X-Ray Regime. <i>Physical Review Letters</i> , 2014, 112, .	7.8	31
49	Final ion-charge resolving electron spectroscopy for the investigation of atomic photoionization processes: Xe in the region of the 4d ⁹ resonance. <i>Physical Review A</i> , 1998, 57, 282-291.	2.5	30
50	The two normal-incidence monochromator beam lines of PTB at BESSY II. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 605-608.	1.6	30
51	Kekulene: On-Surface Synthesis, Orbital Structure, and Aromatic Stabilization. <i>ACS Nano</i> , 2020, 14, 15766-15775.	14.6	30
52	First Angle-Resolved Photoelectron Measurements following Inner-Shell Resonant Excitation in a Singly Charged Ion. <i>Physical Review Letters</i> , 1996, 76, 4496-4499.	7.8	29
53	Multiplet and lifetime effects in the 4d photoelectron spectrum of Eu. <i>Physical Review A</i> , 2000, 61, .	2.5	26
54	VUV photoelectron spectroscopy of laser-excited atomic Ba. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, L337-L341.	1.6	25

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55	Solid-state binding, recombination, and Auger energy shifts of rare-earth metals. <i>Physical Review B</i> , 1988, 38, 1763-1772.	3.2	25
56	4d Photoionization of Free Singly Charged Xenon Ions. <i>Physical Review Letters</i> , 1999, 82, 2068-2070.	7.8	25
57	Total electron-impact ionization cross sections of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 3215-3226.	1.5	25
58	Diamond detectors for LYRA, the solar VUV radiometer on board PROBA2. <i>Diamond and Related Materials</i> , 2006, 15, 802-806.	3.9	25
59	Direct Double Photoionization Involving Inner and Outer Electrons: First Experimental Determination and Many-Body Calculations of an Absolute Cross Section. <i>Physical Review Letters</i> , 1994, 73, 3074-3077.	7.8	23
60	Calibration of space instrumentation with synchrotron radiation. <i>Advances in Space Research</i> , 2006, 37, 265-272.	2.6	23
61	Decay of the giant 4d photoabsorption resonance in atomic Cs and Sm. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1986, 19, 1645-1656.	1.6	22
62	Radiometric comparison for measuring the absolute radiant power of a free-electron laser in the extreme ultraviolet. <i>Metrologia</i> , 2010, 47, 21-23.	1.2	22
63	Polarizing and non-polarizing mirrors for the hydrogen Lyman- α radiation at 121.6 nm. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 641-649.	2.3	22
64	Resonant Ionization of Atomic Na in the 2 p Subshell: Strong Enhancement of the Conjugate Shake-up Channel in the Vicinity of the 2 s Ionization Threshold. <i>Europhysics Letters</i> , 1991, 14, 747-753.	2.0	21
65	Direct double photoionization of atomic sodium. <i>Physical Review A</i> , 1994, 50, 4868-4876.	2.5	19
66	Photoelectron spectroscopy as a non-invasive method to monitor SASE-FEL spectra. <i>Journal of Instrumentation</i> , 2008, 3, P02003-P02003.	1.2	19
67	Resonant multiphoton processes in the soft-x-ray regime. <i>Physical Review A</i> , 2009, 80, .	2.5	19
68	Atomic plasma excitations in the field of a soft x-ray laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 075601.	1.5	18
69	Identifying surface reaction intermediates with photoemission tomography. <i>Nature Communications</i> , 2019, 10, 3189.	12.8	18
70	Decay channels of the 4p resonances in atomic Sr. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, 945-953.	1.5	17
71	The Metrology Light Source – The new dedicated electron storage ring of PTB. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 258, 445-452.	1.4	17
72	Temperature-dependent Urbach tail measurements of lutetium aluminum garnet single crystals. <i>Physical Review B</i> , 2010, 81, .	3.2	17

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73	Charge-Promoted Self-Metalation of Porphyrins on an Oxide Surface. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5078-5082.	13.8	17
74	The PTB high-accuracy spectral responsivity scale in the ultraviolet. <i>Metrologia</i> , 2000, 37, 515-518.	1.2	16
75	Spatial anisotropy of the exciton level in CaF ₂ at 11.1 eV and its relation to the weak optical anisotropy at 157 nm. <i>Physical Review B</i> , 2003, 67, .	3.2	16
76	Shot-to-shot and average absolute photon flux measurements of a femtosecond laser high-order harmonic photon source. <i>New Journal of Physics</i> , 2011, 13, 093003.	2.9	16
77	Multiple ionization of neon by soft x-rays at ultrahigh intensity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164025.	1.5	16
78	Radiometry using synchrotron radiation at PTB. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 1013-1018.	1.7	15
79	A synchrotron-radiation-based variable angle ellipsometer for the visible to vacuum ultraviolet spectral range. <i>Review of Scientific Instruments</i> , 2014, 85, 055117.	1.3	15
80	Electron heated high temperature atomic beam source for VUV photoelectron spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987, 254, 627-629.	1.6	14
81	Photoelectron spectroscopy of laser-excited aligned Ca atoms in the region of the 3p excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 923-930.	1.5	14
82	The combined use of a singly charged ion beam and undulator radiation for photoelectron spectrometry studies on atomic ions. <i>Review of Scientific Instruments</i> , 1992, 63, 1389-1392.	1.3	14
83	New developments in the radiance calibration of deuterium lamps in the UV and VUV spectral range at the PTB. <i>Metrologia</i> , 2000, 37, 563-566.	1.2	14
84	Resonance Auger spectra of free Rb atoms. <i>Physical Review A</i> , 1988, 38, 3395-3399.	2.5	13
85	Electron-ion coincidence spectroscopy on atomic barium in the excitation range of the 4d giant resonance. <i>Physical Review Letters</i> , 1994, 72, 2847-2850.	7.8	13
86	Inner-shell resonances in metastable Ca ⁺ ions. <i>Physical Review A</i> , 1997, 55, 3941-3944.	2.5	13
87	4d ⁿ 1 multiplet structure of rare-earth atoms studied by photoelectron-ion coincidence spectroscopy. <i>Physical Review A</i> , 1998, 57, 3523-3533.	2.5	13
88	Photoelectron Spectroscopy of Laser-Excited Aligned Free Atoms. <i>Physica Scripta</i> , 1990, T31, 28-31.	2.5	12
89	Final Ion-Charge Resolving Electron Spectroscopy: Photoionization Studies on Sm and Eu. <i>Physical Review Letters</i> , 1996, 76, 4320-4323.	7.8	12
90	Temperature-dependent Urbach tail measurements of CaF ₂ crystals. <i>Physical Review B</i> , 2009, 79, .	3.2	12

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91	Development of imaging arrays for solar UV observations based on wide band gap materials. , 2004, , .		11
92	Polarization-dependent vacuum-ultraviolet reflectometry using elliptically polarized synchrotron radiation. Applied Optics, 2007, 46, 7797.	2.1	11
93	Validation of a new facility at the Metrology Light Source for the calibration of radiation sources in the wavelength range from 116 nm to 400 nm. Metrologia, 2014, 51, 528-538.	1.2	11
94	Uncertainty analysis for the determination of B ₄ C optical constants by angle-dependent reflectance measurement for 40â€‰nm to 80â€‰nm wavelength. Applied Optics, 2017, 56, 5768.	1.8	11
95	Measurement of the single-shot pulse energy of a free electron laser using a cryogenic radiometer. Metrologia, 2010, 47, 518-521.	1.2	10
96	First observation of a Fano profile following one step autoionization into a double photoionization continuum. European Physical Journal Special Topics, 1993, 03, C6-217-C6-226.	0.2	10
97	Solar-Blind Diamond Detectors for Lyra, the Solar VUV Radiometer on Board Proba II. Experimental Astronomy, 2003, 16, 141-148.	3.7	9
98	Photoionization Cross Sections of Kr and Xe from Threshold up to 1000 eV. AIP Conference Proceedings, 2003, , .	0.4	9
99	Gas-Monitor Detector for Intense and Pulsed VUV/EUV Free-Electron Laser Radiation. AIP Conference Proceedings, 2004, , .	0.4	9
100	A new facility for the synchrotron radiation-based calibration of transfer radiation sources in the ultraviolet and vacuum ultraviolet spectral range. Review of Scientific Instruments, 2015, 86, 013106.	1.3	9
101	Can photoemission tomography be useful for small, strongly-interacting adsorbate systems?. New Journal of Physics, 2019, 21, 043003.	2.9	9
102	Validation of thin film TiO ₂ optical constants by reflectometry and ellipsometry in the VUV spectral range. Measurement Science and Technology, 2019, 30, 045201.	2.6	9
103	Z-dependent difference between experimental and theoretical 2p-core-hole widths of atomic rare earths. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L811-L816.	1.5	8
104	Photon-matter interaction at short wavelengths and ultra-high intensity â€“ Gas-phase experiments at FLASH. Journal of Physics: Conference Series, 2008, 141, 012014.	0.4	8
105	Bilateral NISTâ€“PTB comparison of spectral responsivity in the VUV. Metrologia, 2011, 48, 02001-02001.	1.2	8
106	Irradiation-induced degradation of PTB7 investigated by valence band and S ₂ p photoelectron spectroscopy. Nanotechnology, 2016, 27, 324005.	2.6	8
107	PTB's radiometric scales for UV and VUV source calibration based on synchrotron radiation. Metrologia, 2018, 55, 386-391.	1.2	8
108	Photoionization experiments on atomic Pt in the range 40-90 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 4123-4131.	1.5	7

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109	Nonlinear photoionization in the soft X-ray regime. Applied Physics A: Materials Science and Processing, 2008, 92, 473-478.	2.3	7
110	Radiometric comparison of the primary source standard $\hat{\text{Metrology Light Source}}^{\text{TM}}$ to a primary detector standard. Metrologia, 2011, 48, 219-225.	1.2	7
111	Synchrotron radiation-based bilateral intercomparison of ultraviolet source calibrations. Metrologia, 2011, 48, 261-267.	1.2	7
112	Going beyond Pentacene: Photoemission Tomography of a Heptacene Monolayer on Ag(110). Journal of Physical Chemistry C, 2021, 125, 2918-2925.	3.1	7
113	Measurement of the absolute number of photons of the hard X-ray beamline at the Linac Coherent Light Source. Journal of Synchrotron Radiation, 2019, 26, 320-327.	2.4	7
114	High-accuracy detector calibration in the $3\hat{\text{e}}^{1500}\hat{\text{A}}\hat{\text{e}}\text{V}$ spectral range at the PTB radiometry laboratory. Journal of Synchrotron Radiation, 1998, 5, 866-868.	2.4	6
115	Multiple Auger cycle photoionisation of manganese atoms by short soft x-ray pulses. New Journal of Physics, 2017, 19, 043002.	2.9	6
116	Controlling the electronic and physical coupling on dielectric thin films. Beilstein Journal of Nanotechnology, 2020, 11, 1492-1503.	2.8	6
117	Combined electron and ion spectroscopy with synchrotron radiation of free metal atoms and ions. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 21-28.	1.7	5
118	High-accuracy VUV reflectometry at selectable sample temperatures. , 2004, , .		5
119	UV and VUV calibration capabilities at the Metrology Light Source for solar and atmospheric research. AIP Conference Proceedings, 2013, , .	0.4	5
120	Traceable measurements of He, Ne, Ar, Kr, and Xe photoionization cross sections in the EUV spectral range. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 135004.	1.5	5
121	Calibration of space instruments at the Metrology Light Source. AIP Conference Proceedings, 2016, , .	0.4	4
122	Source-based calibration of space instruments using calculable synchrotron radiation. Journal of Astronomical Telescopes, Instruments, and Systems, 2016, 2, 044002.	1.8	4
123	Photoion spectroscopy of atomic Ho, Er and Tm in the region of the 4d giant resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 4091-4097.	1.5	3
124	Pulse energy measurements of extreme ultraviolet undulator radiation. Measurement Science and Technology, 2004, 15, 437-443.	2.6	3
125	Multilayer optics with spectral purity layers for the EUV wavelength range. , 2006, , .		3
126	Al x Ga 1-x N focal plane arrays for imaging applications in the extreme ultraviolet (EUV) wavelength range. , 2007, , .		3

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127	Transverse resonance island buckets for synchrotron-radiation based electron time-of-flight spectroscopy. Review of Scientific Instruments, 2018, 89, 103114.	1.3	3
128	Ladungsunterstützte Selbstmetallierung von Porphyrinen auf Oxidoberflächen. Angewandte Chemie, 2021, 133, 5138-5142.	2.0	3
129	Photoelectron spectroscopy on atomic Pr and Nd in the 4d giant resonance region. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 3875-3884.	1.5	2
130	FEL beam metrology with a gas-monitor detector. , 2004, , .		2
131	Stability of vacuum-ultraviolet radiometric transfer standards: Electron cyclotron resonance versus hollow cathode source. Review of Scientific Instruments, 2005, 76, 023101.	1.3	2
132	The impact of pulse duration on multiphoton ionization in the soft X-ray regime. Proceedings of SPIE, 2013, , .	0.8	2
133	PARTIAL AND TOTAL PHOTOIONIZATION CROSS SECTIONS OF ATOMIC Ba, La AND Ce IN THE RANGE OF THE GIANT 4d RESONANCES. Journal De Physique Colloque, 1987, 48, C9-539-C9-542.	0.2	2
134	A photoelectron-photoion coincidence method for the investigation of decay probabilities after innershell photoionization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1477-1480.	1.6	1
135	Metrology with Synchrotron Radiation. , 2019, , 1-35.		1
136	Metrology with Synchrotron Radiation. , 2020, , 1575-1610.		1
137	PHOTOELECTRON SPECTROSCOPY OF ATOMIC Ca IN THE 2p-EXCITATION RANGE. Journal De Physique Colloque, 1987, 48, C9-543-C9-546.	0.2	1
138	PHOTOELECTRON SPECTROSCOPY OF LASER EXCITED Ca ATOMS. Journal De Physique Colloque, 1987, 48, C9-547-C9-550.	0.2	1
139	On the optical anisotropy in the cubic crystal of CaF ₂ : scaling arguments and their relation to dispersing absorption. , 2003, , .		0
140	Absolute Measurement Of EUV Radiation From An Undulator. AIP Conference Proceedings, 2004, , .	0.4	0
141	Saturation behaviour of PtSi-photodiodes under 157-nm laser irradiation. , 0, , .		0
142	Absolute measurement of F ₂ -laser power at 157 nm. Applied Optics, 2006, 45, 3325.	2.1	0
143	High field physics with XUV pulses from the Free Electron Laser in Hamburg: Atoms and Clusters. , 2007, , .		0
144	A new soft x-ray autocorrelator—direct evaluation of the temporal properties of FEL pulses at 24 nm. , 2010, , .		0

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145	Pulse power measurements and attenuator characterization of the hard X-ray beamline at the Linac Coherent Light Source. , 2019, , .		0
146	PHOTOELECTRON SPECTROSCOPY OF ORIENTED AND ALIGNED ALKALI ATOMS. Journal De Physique Colloque, 1987, 48, C9-551-C9-554.	0.2	0