

Peter Guttman

List of Publications by Year in descending order

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166
papers

4,467
citations

126907

33
h-index

128289

60
g-index

170
all docs

170
docs citations

170
times ranked

6631
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional cellular ultrastructure resolved by X-ray microscopy. <i>Nature Methods</i> , 2010, 7, 985-987.	19.0	318
2	Computed tomography of cryogenic biological specimens based on X-ray microscopic images. <i>Ultramicroscopy</i> , 2000, 84, 185-197.	1.9	259
3	Structural Basis of Vesicle Formation at the Inner Nuclear Membrane. <i>Cell</i> , 2015, 163, 1692-1701.	28.9	180
4	Aerosol-Assisted CVD-Grown WO ₃ Nanoneedles Decorated with Copper Oxide Nanoparticles for the Selective and Humidity-Resilient Detection of H ₂ S. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6842-6851.	8.0	161
5	Phase contrast studies of biological specimens with the X-ray microscope at BESSY (invited). <i>Review of Scientific Instruments</i> , 1995, 66, 1282-1286.	1.3	138
6	Ultrahigh-Resolution Soft-X-Ray Microscopy with Zone Plates in High Orders of Diffraction. <i>Physical Review Letters</i> , 2009, 103, 110801.	7.8	132
7	Oriented nucleation of hemozoin at the digestive vacuole membrane in <i>Plasmodium falciparum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11188-11193.	7.1	116
8	Imaging endosomes and autophagosomes in whole mammalian cells using correlative cryo-fluorescence and cryo-soft X-ray microscopy (cryo-CLXM). <i>Ultramicroscopy</i> , 2014, 143, 77-87.	1.9	112
9	Nanoscale spectroscopy with polarized X-rays by NEXAFS-TXM. <i>Nature Photonics</i> , 2012, 6, 25-29.	31.4	106
10	Material and Elastic Properties of Al ₂ O ₃ Tobermorite in Ancient Roman Seawater Concrete. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2598-2606.	3.8	106
11	Imaging of magnetic domains with the X-ray microscope at BESSY using X-ray magnetic circular dichroism. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 101, 313-316.	1.1	104
12	Cryo X-ray microscope with flat sample geometry for correlative fluorescence and nanoscale tomographic imaging. <i>Journal of Structural Biology</i> , 2012, 177, 212-223.	2.8	103
13	Compact x-ray microscope for the water window based on a high brightness laser plasma source. <i>Optics Express</i> , 2012, 20, 18362.	3.4	100
14	Correlative VIS-fluorescence and soft X-ray cryo-microscopy/tomography of adherent cells. <i>Journal of Structural Biology</i> , 2012, 177, 193-201.	2.8	98
15	Cryo-X-ray tomography of vaccinia virus membranes and inner compartments. <i>Journal of Structural Biology</i> , 2009, 168, 234-239.	2.8	81
16	Cryo X-ray microscopy. <i>Synchrotron Radiation News</i> , 1995, 8, 19-28.	0.8	78
17	Mode of action of quinoline antimalarial drugs in red blood cells infected by <i>Plasmodium falciparum</i> revealed in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22946-22952.	7.1	72
18	Cryo X-ray nano-tomography of vaccinia virus infected cells. <i>Journal of Structural Biology</i> , 2012, 177, 202-211.	2.8	70

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19	Imaging of magnetic domains by transmission x-ray microscopy. Journal Physics D: Applied Physics, 1998, 31, 649-655.	2.8	67
20	Morphological quantification of hierarchical geomaterials by X-ray nano-CT bridges the gap from nano to micro length scales. American Mineralogist, 2012, 97, 480-483.	1.9	66
21	Characterization of the resolving power and contrast transfer function of a transmission X-ray microscope with partially coherent illumination. Optics Express, 2012, 20, 5830.	3.4	59
22	Towards an atlas of mammalian cell ultrastructure by cryo soft X-ray tomography. Journal of Structural Biology, 2012, 177, 179-192.	2.8	57
23	Zone Plates for X-Ray Microscopy. Springer Series in Optical Sciences, 1984, , 63-74.	0.7	52
24	Specific biomolecule corona is associated with ring-shaped organization of silver nanoparticles in cells. Nanoscale, 2013, 5, 9193.	5.6	49
25	Terminal contact elements of insect attachment devices studied by transmission X-ray microscopy. Journal of Experimental Biology, 2008, 211, 1958-1963.	1.7	48
26	In situ Characterization of SiO ₂ Nanoparticle Biointeractions Using BrightSilica. Advanced Functional Materials, 2014, 24, 3765-3775.	14.9	48
27	Membrane Densification of Heated Polyelectrolyte Multilayer Capsules Characterized by Soft X-ray Microscopy. Advanced Materials, 2007, 19, 1331-1336.	21.0	43
28	New Insight into Microgel-Stabilized Emulsions Using Transmission X-ray Microscopy: Nonuniform Deformation and Arrangement of Microgels at Liquid Interfaces. Langmuir, 2015, 31, 83-89.	3.5	43
29	3D Ultrastructural Organization of Whole Chlamydomonas reinhardtii Cells Studied by Nanoscale Soft X-Ray Tomography. PLoS ONE, 2012, 7, e53293.	2.5	40
30	Stress-induced phenomena in nanosized copper interconnect structures studied by x-ray and electron microscopy. Journal of Applied Physics, 2009, 106, .	2.5	38
31	Multimodal nanoparticles as alignment and correlation markers in fluorescence/soft X-ray cryo-microscopy/tomography of nucleoplasmic reticulum and apoptosis in mammalian cells. Ultramicroscopy, 2014, 146, 46-54.	1.9	38
32	Molecular nitrogen in N-doped TiO ₂ nanoribbons. RSC Advances, 2015, 5, 23350-23356.	3.6	35
33	Röntgenmikroskopie. Die Naturwissenschaften, 1996, 83, 61-70.	1.6	34
34	Structure and composition of myelinated axons: A multimodal synchrotron spectro-microscopy study. Journal of Structural Biology, 2011, 173, 202-212.	2.8	34
35	Thermally driven shape instabilities of Nb/Cu multilayer structures: instability of Nb/Cu multilayers. Thin Solid Films, 1999, 353, 33-39.	1.8	33
36	Evidence for multifilamentary valence changes in resistive switching SrTiO ₃ devices detected by transmission X-ray microscopy. APL Materials, 2013, 1, .	5.1	33

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37	Nanoimaging granule dynamics and subcellular structures in activated mast cells using soft X-ray tomography. Scientific Reports, 2016, 6, 34879.	3.3	31
38	Optical Nanosensing of Lipid Accumulation due to Enzyme Inhibition in Live Cells. ACS Nano, 2019, 13, 9363-9375.	14.6	31
39	Cells Undergo Major Changes in the Quantity of Cytoplasmic Organelles after Uptake of Gold Nanoparticles with Biologically Relevant Surface Coatings. ACS Nano, 2020, 14, 2248-2264.	14.6	31
40	T Cells Kill Bacteria Captured by Transinfection from Dendritic Cells and Confer Protection in Mice. Cell Host and Microbe, 2014, 15, 611-622.	11.0	30
41	Investigation of reactions between trace gases and functional CuO nanospheres and octahedrons using NEXAFS-TXM imaging. Scientific Reports, 2015, 5, 17729.	3.3	29
42	Biomolecular environment, quantification, and intracellular interaction of multifunctional magnetic SERS nanoprobos. Analyst, The, 2016, 141, 5096-5106.	3.5	29
43	X-ray microscopy of human spermatozoa shows change of mitochondrial morphology after capacitation. Human Reproduction, 1999, 14, 880-884.	0.9	28
44	Energy-tunable full-field x-ray microscopy: Cryo-tomography and nano-spectroscopy with the new BESSY TXM. Journal of Physics: Conference Series, 2009, 186, 012041.	0.4	27
45	3D simulation of the image formation in soft x-ray microscopes. Optics Express, 2014, 22, 30756.	3.4	27
46	Three-dimensional structured on-chip stacked zone plates for nanoscale X-ray imaging with high efficiency. Nano Research, 2014, 7, 528-535.	10.4	27
47	Spatially resolved TiOx phases in switched RRAM devices using soft X-ray spectromicroscopy. Scientific Reports, 2016, 6, 21525.	3.3	27
48	Vitrification of thick samples for soft X-ray cryo-tomography by high pressure freezing. Journal of Structural Biology, 2013, 181, 77-81.	2.8	26
49	Amino-ε-polyvinyl Alcohol Coated Superparamagnetic Iron Oxide Nanoparticles are Suitable for Monitoring of Human Mesenchymal Stromal Cells In Vivo. Small, 2014, 10, 4340-4351.	10.0	25
50	Ellipsoidal capillary as condenser for the BESSY full-field x-ray microscope. Journal of Physics: Conference Series, 2009, 186, 012064.	0.4	23
51	Mn ²⁺ Substitutional Doping of TiO ₂ Nanoribbons: A Three-Step Approach. Journal of Physical Chemistry C, 2014, 118, 21250-21257.	3.1	23
52	Towards atomic resolution in sodium titanate nanotubes using near-edge X-ray-absorption fine-structure spectromicroscopy combined with multichannel multiple-scattering calculations. Beilstein Journal of Nanotechnology, 2012, 3, 789-797.	2.8	22
53	Transmission X-ray microscopy of intact hydrated PtK2 cells during the cell cycle. Journal of Microscopy, 1997, 188, 125-135.	1.8	21
54	Tomographic imaging of biological specimens with the cryo transmission X-ray microscope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1308-1311.	1.6	21

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55	Transmission X-ray microscopy of spider dragline silk. International Journal of Biological Macromolecules, 2007, 40, 87-95.	7.5	21
56	Soft X-ray Microscopy To Characterize Polyelectrolyte Assemblies. Journal of Physical Chemistry B, 2007, 111, 8388-8393.	2.6	21
57	X-ray absorption spectroscopy by full-field X-ray microscopy of a thin graphite flake: Imaging and electronic structure via the carbon K-edge. Beilstein Journal of Nanotechnology, 2012, 3, 345-350.	2.8	21
58	Overview of nanoscale NEXAFS performed with soft X-ray microscopes. Beilstein Journal of Nanotechnology, 2015, 6, 595-604.	2.8	21
59	Niemann Pick C2 protein enables cholesterol transfer from endo-lysosomes to the plasma membrane for efflux by shedding of extracellular vesicles. Chemistry and Physics of Lipids, 2021, 235, 105047.	3.2	21
60	Controlling Disorder and Superconductivity in Titanium Oxynitride Nanoribbons with Anion Exchange. ACS Nano, 2015, 9, 10133-10141.	14.6	20
61	Intracellular optical probing with gold nanostars. Nanoscale, 2021, 13, 968-979.	5.6	20
62	Spectromicroscopy of C60 and azafullerene C59N: Identifying surface adsorbed water. Scientific Reports, 2016, 6, 35605.	3.3	19
63	Electron beam generated phase zone plates with 30 nm zonewidth for high resolution X-ray microscopy. Journal of Optics, 1992, 23, 255-258.	0.3	17
64	X-ray spectromicroscopy with the scanning transmission X-ray microscope at BESSY II. Journal of Synchrotron Radiation, 2008, 15, 26-35.	2.4	17
65	Growth control, structure, chemical state, and photoresponse of CuO/CdS core-shell heterostructure nanowires. Nanotechnology, 2013, 24, 265603.	2.6	17
66	Relating the composition and interface interactions in the hard corona of gold nanoparticles to the induced response mechanisms in living cells. Nanoscale, 2020, 12, 17450-17461.	5.6	17
67	Fine Control of the Chemistry of Nitrogen Doping in TiO ₂ : A Joint Experimental and Theoretical Study. Journal of Physical Chemistry C, 2020, 124, 17401-17412.	3.1	17
68	Magnetic domain imaging with a transmission X-ray microscope. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 624-627.	2.3	16
69	Visualization of Cytoskeletal Elements in the Transmission X-ray Microscope. Journal of Structural Biology, 1998, 123, 72-82.	2.8	15
70	Instrumentation advances with the new X-ray microscopes at BESSY II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 849-852.	1.6	15
71	Towards high diffraction efficiency zone plates for X-ray microscopy. Microelectronic Engineering, 2010, 87, 1557-1560.	2.4	15
72	X-ray microscopy with synchrotron radiation at the electron storage ring BESSY in Berlin. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 246, 675-680.	1.6	14

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73	Magnetic transmission X-ray microscopy: imaging magnetic domains via the X-ray magnetic circular dichroism. Journal of Alloys and Compounds, 1999, 286, 20-25.	5.5	14
74	Quantitative imaging of magnetization reversal in FeGd multilayers by magnetic transmission x-ray microscopy. Journal of Applied Physics, 2000, 87, 6478-6480.	2.5	14
75	X-ray tomography shows the varying three-dimensional morphology of gold nanoaggregates in the cellular ultrastructure. Nanoscale Advances, 2019, 1, 2937-2945.	4.6	14
76	Influence of Nuclear Localization Sequences on the Intracellular Fate of Gold Nanoparticles. ACS Nano, 2021, 15, 14838-14849.	14.6	14
77	The new scanning transmission X-ray microscope at BESSY II. AIP Conference Proceedings, 2000, , .	0.4	13
78	Magnetization reversal of a multilayered FeGd dot array imaged by transmission x-ray microscopy. Journal of Applied Physics, 2001, 89, 7162-7164.	2.5	13
79	Electronic Structure of Individual Hybrid Colloid Particles Studied by Near-Edge X-ray Absorption Fine Structure (NEXAFS) Spectroscopy in the X-ray Microscope. Nano Letters, 2013, 13, 824-828.	9.1	13
80	Construction of a Micro Zone Plate and Evaluation of Imaging Properties. Springer Series in Optical Sciences, 1984, , 75-90.	0.7	13
81	Chemical Bond Modification upon Phase Transformation of TiO ₂ Nanoribbons Revealed by Nanoscale X-ray Linear Dichroism. Journal of Physical Chemistry C, 2017, 121, 17038-17042.	3.1	12
82	Insight into diatom frustule structures using various imaging techniques. Scientific Reports, 2021, 11, 14555.	3.3	12
83	Transmission X-ray microscopy using X-ray magnetic circular dichroism. Applied Physics A: Materials Science and Processing, 2001, 73, 697-701.	2.3	11
84	Selection of a single femtosecond high-order harmonic using a zone plate based monochromator. Journal of Applied Physics, 2008, 104, .	2.5	11
85	Microscopy and spectroscopy with X-rays for studies in the environmental sciences. Mineralogical Magazine, 2008, 72, 211-216.	1.4	11
86	X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices. Nanotechnology, 2016, 27, 345705.	2.6	11
87	X-ray microscopy: experimental results with the Göttingen X-ray microscope at the electron storage ring BESSY in Berlin. Journal of Microscopy, 1985, 138, 279-284.	1.8	10
88	X-ray microscopy studies of aqueous colloid systems. , 1994, , 135-138.		10
89	Direct imaging of aggregates in aqueous clay-suspensions by x-ray microscopy. , 1994, , 139-142.		10
90	A rotating condenser and off-axis zone plate monochromator for the TXM at the undulator U41 at BESSY II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 857-860.	1.6	10

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91	First results of the new scanning transmission X-ray microscope at BESSY-II. European Physical Journal Special Topics, 2003, 104, 95-98.	0.2	10
92	Investigating local (photo-)current and structure of ZnPc:C60 bulk-heterojunctions. Organic Electronics, 2013, 14, 2777-2788.	2.6	10
93	The need to freezeâ€”Dehydration during specimen preparation for electron microscopy collapses the endothelial glycocalyx regardless of fixation method. Microcirculation, 2020, 27, e12643.	1.8	10
94	The transmission X-ray microscope at BESSY II. European Physical Journal Special Topics, 2003, 104, 85-90.	0.2	10
95	X-Ray Microscopy at BESSY: From Nano-Tomography to Fs-Imaging. AIP Conference Proceedings, 2007, , .	0.4	9
96	Röntgenmikroskopie zur Untersuchung von wässrigen biologischen und kolloidchemischen Systemen. Nachrichten Aus Der Chemie, 1992, 40, 562-563.	0.0	8
97	The condenser-monochromator with dynamical aperture synthesis for the TXM at an undulator beamline at BESSY II. AIP Conference Proceedings, 2000, , .	0.4	8
98	Soft X-Ray Microscopy at HZB: Zone Plate Development and Imaging Using the Third Order of Diffraction. , 2011, , .		8
99	Interaction between carbon nanotubes and soil colloids studied with X-ray spectromicroscopy. Chemical Geology, 2012, 329, 32-41.	3.3	8
100	NEXAFS spectromicroscopy of suspended carbon nanohorns. Chemical Physics Letters, 2013, 587, 85-87.	2.6	8
101	First Results from the X-Ray Microscopy Beamline U41-PGM1-XM at BESSY II.. Microscopy and Microanalysis, 2018, 24, 204-205.	0.4	8
102	In-situ X-ray Microscopy of Crack-Propagation to Study Fracture Mechanics of On-Chip Interconnect Structures. MRS Advances, 2018, 3, 2305-2310.	0.9	8
103	Imaging of sub-100-nm magnetic domains in atomically stacked Fe(001)/Au(001) multilayers. Journal of Applied Physics, 2000, 87, 6481-6483.	2.5	7
104	Construction of a scanning transmission X-ray microscope at the undulator U-41 at BESSY II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 861-863.	1.6	7
105	Undulation instabilities in laterally structured magnetic multilayers. Journal of Applied Physics, 2002, 91, 7334.	2.5	6
106	X-ray Microscopy Studies of Electromigration in Advanced Copper Interconnects. AIP Conference Proceedings, 2006, , .	0.4	6
107	Soft X-ray nanoscale imaging using a sub-pixel resolution charge coupled device (CCD) camera. Review of Scientific Instruments, 2019, 90, 043111.	1.3	6
108	Probing the Intracellular Bio-Nano Interface in Different Cell Lines with Gold Nanostars. Nanomaterials, 2021, 11, 1183.	4.1	6

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109	Investigations of Wet Biological Specimens with the X-Ray Microscope at BESSY. Springer Series in Optical Sciences, 1992, , 392-396.	0.7	6
110	The magnetic transmission X-ray microscopy project at BESSY II. European Physical Journal Special Topics, 2003, 104, 91-94.	0.2	6
111	Imaging of magnetic domains at BESSY. Synchrotron Radiation News, 1996, 9, 35-39.	0.8	5
112	Studies on intracellular structures of COS cells by X-ray microscopy. Journal of Synchrotron Radiation, 1998, 5, 1105-1107.	2.4	5
113	Magnetic Domain Imaging with a Transmission X-ray Microscope. Journal of the Magnetism Society of Japan, 1999, 23, S1_205-208.	0.4	5
114	Microscopy of thin polymer blend films of polystyrene and poly-n-butyl-methacrylate. AIP Conference Proceedings, 2000, , .	0.4	5
115	Size-selective colloidal-gold localization in transmission X-ray microscopy. Journal of Microscopy, 2007, 225, 80-87.	1.8	5
116	Dynamical X-ray Microscopy Study of Stress-Induced Voiding in Cu Interconnects. , 2009, , .		5
117	A New In Situ Microscopy Approach to Study the Degradation and Failure Mechanisms of Time-Dependent Dielectric Breakdown: Set-Up and Opportunities. Advanced Engineering Materials, 2014, 16, 486-493.	3.5	5
118	Imaging Drosophila brain by combining cryo-soft X-ray microscopy of thick vitreous sections and cryo-electron microscopy of ultrathin vitreous sections. Journal of Structural Biology, 2014, 188, 177-182.	2.8	5
119	X-ray microscope images with Fresnel zone plates fabricated by electron beam nanolithography. Microelectronic Engineering, 1987, 6, 565-570.	2.4	4
120	Imaging zone plates for x-ray microscopy fabricated by electron-beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1988, 6, 323.	1.6	4
121	<title>X-ray microscopy studies with the Goettingen x-ray microscopes</title>. , 1993, , .		4
122	X-ray microscopes at BESSY II. AIP Conference Proceedings, 2000, , .	0.4	4
123	Concept and realization of the novel rotating condenser-monochromator at the G�ttingen TXM at BESSY II. European Physical Journal Special Topics, 2003, 104, 273-276.	0.2	4
124	Development of chemical-mechanical polished high-resolution zone plates. Journal of Vacuum Science & Technology B, 2007, 25, 1789.	1.3	4
125	The New HZB X-Ray Microscopy Beamline U41-PGM1-XM at BESSY II.. Microscopy and Microanalysis, 2018, 24, 206-207.	0.4	4
126	X-Ray Microscopy Investigations on Polytene Chromosomes Isolated from Salivary Glands of Chironomus thummi Larvae. Springer Series in Optical Sciences, 1992, , 404-407.	0.7	4

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127	3D membrane segmentation and quantification of intact thick cells using cryo soft X-ray transmission microscopy: A pilot study. PLoS ONE, 2017, 12, e0174324.	2.5	4
128	<title>Thinned back-illuminated CCD for x-ray microscopy</title>. , 1993, , .		3
129	Imaging magnetic structures with a transmission X-ray microscope. AIP Conference Proceedings, 2000, , .	0.4	3
130	Tomographic imaging of cryogenic biological specimens with the X-ray microscope at BESSY I. AIP Conference Proceedings, 2000, , .	0.4	3
131	X-ray microscopy at BESSY. Synchrotron Radiation News, 2003, 16, 3-10.	0.8	3
132	Nanoscale spectroscopy and tomography with the HZB X-ray microscope: Applications in materials and life sciences. Journal of Physics: Conference Series, 2013, 463, 012032.	0.4	3
133	Nanoscale NEXAFS for Probing TiCh-B Nanoribbons.. Microscopy and Microanalysis, 2018, 24, 474-475.	0.4	3
134	Single cell temperature probed by Eu ⁺³ doped TiO ₂ nanoparticles luminescence. Nano Select, 2021, 2, 1208-1217.	3.7	3
135	Nd ³⁺ -Doped TiO ₂ Nanoparticles as Nanothermometer: High Sensitivity in Temperature Evaluation inside Biological Windows. Sensors, 2021, 21, 5306.	3.8	3
136	X-ray Fourier transform holography with beamshaping optical elements. Optics Express, 2022, 30, 15566-15574.	3.4	3
137	Electron Beam Lithography And Nanometer Structures: Fabrication Of Microzone Plates. Optical Engineering, 1988, 27, .	1.0	2
138	Behavior of amorphous semiconductors As ₂ S ₃ layers after photon, electron, or x-ray exposures. , 1991, 1361, 999.		2
139	Observation of the internal membrane system of COS cells by X-ray microscopy. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 369-372.	1.7	2
140	X-ray magnetic circular dichroism used to image magnetic domains. Journal of Synchrotron Radiation, 1999, 6, 688-690.	2.4	2
141	Visualization of 30 nm structures in frozen-hydrated biological samples by cryo transmission X-ray microscopy. AIP Conference Proceedings, 2000, , .	0.4	2
142	In situ X-ray Microscopy Studies of Electromigration in Copper Interconnects. AIP Conference Proceedings, 2003, , .	0.4	2
143	X-ray stereo microscopy for investigation of dynamics in soils. Journal of Physics: Conference Series, 2009, 186, 012104.	0.4	2
144	TXM-NEXAFS of TiO ₂ -Based Nanostructures. AIP Conference Proceedings, 2011, , .	0.4	2

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145	Growth control of CuO nanowires on copper thin films: Toward the development of pn nanojunction arrays. , 2013, , .		2
146	Anisotropic core-shell Fe ₃ O ₄ @Au magnetic nanoparticles and the effect of the immunomagnetic separation volume on the capture efficiency. Pure and Applied Chemistry, 2014, 86, 967-978.	1.9	2
147	A transmission x-ray microscopy and NEXAFS approach for studying corroded silicate glasses at the nanometre scale. Journal of Commonwealth Law and Legal Education, 2018, 59, 11-26.	0.5	2
148	Combination of Soft X-Ray Microscopy with In-Situ Mechanical Testing to Image Crack Propagation in Microchips. Microscopy and Microanalysis, 2018, 24, 438-439.	0.4	2
149	3D PSF Measurement for a Soft X-ray Microscope and Comparison to Theory. , 2016, , .		2
150	Röntgenmikroskopie. Die Naturwissenschaften, 1996, 83, 61-70.	1.6	2
151	X-ray Microscopy Experiments with Synchrotron Radiation - State of the Art and Expected Developments. Physica Scripta, 1987, T17, 201-203.	2.5	1
152	Registration of soft x radiation in As ₂ S ₃ layers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 1939.	1.6	1
153	<title>Low-temperature x-ray microscopy of biological samples in amplitude and phase contrast</title>. , 1998, 3449, 2.		1
154	X-Ray Spectromicroscopy of Biomolecular Matter and Soils. , 2011, , .		1
155	The X-Ray Microscopy Project at BESSY II. , 1998, , 55-64.		1
156	X-Ray Microscopy with X-Ray Magnetic Circular Dichroism. European Physical Journal Special Topics, 1997, 7, C2-467-C2-468.	0.2	1
157	Imaging of Magnetic Domains with the Transmission X-Ray Microscope at Bessy I. , 0, , .		0
158	Application of X-ray microscopy in food science investigation of high pressure affected bacterial spores. AIP Conference Proceedings, 2000, , .	0.4	0
159	X-ray microimaging of cisplatin distribution in ovarian cancer cells. AIP Conference Proceedings, 2000, , .	0.4	0
160	Morphological studies of human sperm using the Aarhus X-ray microscope. AIP Conference Proceedings, 2000, , .	0.4	0
161	X-Ray Spectromicroscopy Studies in Environmental Sciences. Microscopy and Microanalysis, 2004, 10, 1032-1033.	0.4	0
162	X-Ray Nano-Tomography at HZB. , 2009, , .		0

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163	Soft X-Ray Tomography: Filling the Gap Between Light and Electrons for Imaging Hydrated Biological Cells. Microscopy and Microanalysis, 2017, 23, 986-987.	0.4	0
164	The in-vivo Mode of Action of Quinoline Antimalarial Drugs Unveiled by X-ray Microscopy. Microscopy and Microanalysis, 2020, 26, 3004-3006.	0.4	0
165	Multilayered magnetic nanostrips studied by transmission X-ray microscopy. European Physical Journal Special Topics, 2003, 104, 483-486.	0.2	0
166	First Step Towards a Femtosecond VUV Microscope: Zone Plate Optics as Monochromator for High-Order Harmonics.. Springer Series in Chemical Physics, 2009, , 884-886.	0.2	0