

Peter Guttmann

List of Publications by Year in descending order

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166
papers

4,467
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126901

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128286

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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Imaging of magnetic domains by transmission x-ray microscopy. <i>Journal Physics D: Applied Physics</i> , 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. <i>American Mineralogist</i> , 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. <i>Optics Express</i> , 2012, 20, 5830. | 3.4 | 59 |
| 22 | Towards an atlas of mammalian cell ultrastructure by cryo soft X-ray tomography. <i>Journal of Structural Biology</i> , 2012, 177, 179-192. | 2.8 | 57 |
| 23 | Zone Plates for X-Ray Microscopy. <i>Springer Series in Optical Sciences</i> , 1984, , 63-74. | 0.7 | 52 |
| 24 | Specific biomolecule corona is associated with ring-shaped organization of silver nanoparticles in cells. <i>Nanoscale</i> , 2013, 5, 9193. | 5.6 | 49 |
| 25 | Terminal contact elements of insect attachment devices studied by transmission X-ray microscopy. <i>Journal of Experimental Biology</i> , 2008, 211, 1958-1963. | 1.7 | 48 |
| 26 | In situ Characterization of SiO ₂ Nanoparticle Biointeractions Using BrightSilica. <i>Advanced Functional Materials</i> , 2014, 24, 3765-3775. | 14.9 | 48 |
| 27 | Membrane Densification of Heated Polyelectrolyte Multilayer Capsules Characterized by Soft X-ray Microscopy. <i>Advanced Materials</i> , 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. <i>Langmuir</i> , 2015, 31, 83-89. | 3.5 | 43 |
| 29 | 3D Ultrastructural Organization of Whole <i>Chlamydomonas reinhardtii</i> Cells Studied by Nanoscale Soft X-Ray Tomography. <i>PLoS ONE</i> , 2012, 7, e53293. | 2.5 | 40 |
| 30 | Stress-induced phenomena in nanosized copper interconnect structures studied by x-ray and electron microscopy. <i>Journal of Applied Physics</i> , 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. <i>Ultramicroscopy</i> , 2014, 146, 46-54. | 1.9 | 38 |
| 32 | Molecular nitrogen in N-doped TiO ₂ nanoribbons. <i>RSC Advances</i> , 2015, 5, 23350-23356. | 3.6 | 35 |
| 33 | Röntgenmikroskopie. <i>Die Naturwissenschaften</i> , 1996, 83, 61-70. | 1.6 | 34 |
| 34 | Structure and composition of myelinated axons: A multimodal synchrotron spectro-microscopy study. <i>Journal of Structural Biology</i> , 2011, 173, 202-212. | 2.8 | 34 |
| 35 | Thermally driven shape instabilities of Nb/Cu multilayer structures: instability of Nb/Cu multilayers. <i>Thin Solid Films</i> , 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. <i>APL Materials</i> , 2013, 1, . | 5.1 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Nanoimaging granule dynamics and subcellular structures in activated mast cells using soft X-ray tomography. <i>Scientific Reports</i> , 2016, 6, 34879. | 3.3 | 31 |
| 38 | Optical Nanosensing of Lipid Accumulation due to Enzyme Inhibition in Live Cells. <i>ACS Nano</i> , 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. <i>ACS Nano</i> , 2020, 14, 2248-2264. | 14.6 | 31 |
| 40 | T Cells Kill Bacteria Captured by Transinfection from Dendritic Cells and Confer Protection in Mice. <i>Cell Host and Microbe</i> , 2014, 15, 611-622. | 11.0 | 30 |
| 41 | Investigation of reactions between trace gases and functional CuO nanospheres and octahedrons using NEXAFS-TXM imaging. <i>Scientific Reports</i> , 2015, 5, 17729. | 3.3 | 29 |
| 42 | Biomolecular environment, quantification, and intracellular interaction of multifunctional magnetic SERS nanoprobos. <i>Analyst</i> , The, 2016, 141, 5096-5106. | 3.5 | 29 |
| 43 | X-ray microscopy of human spermatozoa shows change of mitochondrial morphology after capacitation. <i>Human Reproduction</i> , 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. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012041. | 0.4 | 27 |
| 45 | 3D simulation of the image formation in soft x-ray microscopes. <i>Optics Express</i> , 2014, 22, 30756. | 3.4 | 27 |
| 46 | Three-dimensional structured on-chip stacked zone plates for nanoscale X-ray imaging with high efficiency. <i>Nano Research</i> , 2014, 7, 528-535. | 10.4 | 27 |
| 47 | Spatially resolved TiO _x phases in switched RRAM devices using soft X-ray spectromicroscopy. <i>Scientific Reports</i> , 2016, 6, 21525. | 3.3 | 27 |
| 48 | Vitrification of thick samples for soft X-ray cryo-tomography by high pressure freezing. <i>Journal of Structural Biology</i> , 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. <i>Small</i> , 2014, 10, 4340-4351. | 10.0 | 25 |
| 50 | Ellipsoidal capillary as condenser for the BESSY full-field x-ray microscope. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012064. | 0.4 | 23 |
| 51 | Mn ²⁺ Substitutional Doping of TiO ₂ Nanoribbons: A Three-Step Approach. <i>Journal of Physical Chemistry C</i> , 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. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 789-797. | 2.8 | 22 |
| 53 | Transmission X-ray microscopy of intact hydrated PtK2 cells during the cell cycle. <i>Journal of Microscopy</i> , 1997, 188, 125-135. | 1.8 | 21 |
| 54 | Tomographic imaging of biological specimens with the cryo transmission X-ray microscope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 1308-1311. | 1.6 | 21 |

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|----|--|------|-----------|
| 55 | Transmission X-ray microscopy of spider dragline silk. <i>International Journal of Biological Macromolecules</i> , 2007, 40, 87-95. | 7.5 | 21 |
| 56 | Soft X-ray Microscopy To Characterize Polyelectrolyte Assemblies. <i>Journal of Physical Chemistry B</i> , 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. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 345-350. | 2.8 | 21 |
| 58 | Overview of nanoscale NEXAFS performed with soft X-ray microscopes. <i>Beilstein Journal of Nanotechnology</i> , 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. <i>Chemistry and Physics of Lipids</i> , 2021, 235, 105047. | 3.2 | 21 |
| 60 | Controlling Disorder and Superconductivity in Titanium Oxynitride Nanoribbons with Anion Exchange. <i>ACS Nano</i> , 2015, 9, 10133-10141. | 14.6 | 20 |
| 61 | Intracellular optical probing with gold nanostars. <i>Nanoscale</i> , 2021, 13, 968-979. | 5.6 | 20 |
| 62 | Spectromicroscopy of C60 and azafullerene C59N: Identifying surface adsorbed water. <i>Scientific Reports</i> , 2016, 6, 35605. | 3.3 | 19 |
| 63 | Electron beam generated phase zone plates with 30 nm zonewidth for high resolution X-ray microscopy. <i>Journal of Optics</i> , 1992, 23, 255-258. | 0.3 | 17 |
| 64 | X-ray spectromicroscopy with the scanning transmission X-ray microscope at BESSY II. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 26-35. | 2.4 | 17 |
| 65 | Growth control, structure, chemical state, and photoresponse of CuO/CdS core-shell heterostructure nanowires. <i>Nanotechnology</i> , 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. <i>Nanoscale</i> , 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. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17401-17412. | 3.1 | 17 |
| 68 | Magnetic domain imaging with a transmission X-ray microscope. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 624-627. | 2.3 | 16 |
| 69 | Visualization of Cytoskeletal Elements in the Transmission X-ray Microscope. <i>Journal of Structural Biology</i> , 1998, 123, 72-82. | 2.8 | 15 |
| 70 | Instrumentation advances with the new X-ray microscopes at BESSY II. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 849-852. | 1.6 | 15 |
| 71 | Towards high diffraction efficiency zone plates for X-ray microscopy. <i>Microelectronic Engineering</i> , 2010, 87, 1557-1560. | 2.4 | 15 |
| 72 | X-ray microscopy with synchrotron radiation at the electron storage ring BESSY in Berlin. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986, 246, 675-680. | 1.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Magnetic transmission X-ray microscopy: imaging magnetic domains via the X-ray magnetic circular dichroism. <i>Journal of Alloys and Compounds</i> , 1999, 286, 20-25. | 5.5 | 14 |
| 74 | Quantitative imaging of magnetization reversal in FeGd multilayers by magnetic transmission x-ray microscopy. <i>Journal of Applied Physics</i> , 2000, 87, 6478-6480. | 2.5 | 14 |
| 75 | X-ray tomography shows the varying three-dimensional morphology of gold nanoaggregates in the cellular ultrastructure. <i>Nanoscale Advances</i> , 2019, 1, 2937-2945. | 4.6 | 14 |
| 76 | Influence of Nuclear Localization Sequences on the Intracellular Fate of Gold Nanoparticles. <i>ACS Nano</i> , 2021, 15, 14838-14849. | 14.6 | 14 |
| 77 | The new scanning transmission X-ray microscope at BESSY II. <i>AIP Conference Proceedings</i> , 2000, , . | 0.4 | 13 |
| 78 | Magnetization reversal of a multilayered FeGd dot array imaged by transmission x-ray microscopy. <i>Journal of Applied Physics</i> , 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. <i>Nano Letters</i> , 2013, 13, 824-828. | 9.1 | 13 |
| 80 | Construction of a Micro Zone Plate and Evaluation of Imaging Properties. <i>Springer Series in Optical Sciences</i> , 1984, , 75-90. | 0.7 | 13 |
| 81 | Chemical Bond Modification upon Phase Transformation of TiO ₂ Nanoribbons Revealed by Nanoscale X-ray Linear Dichroism. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17038-17042. | 3.1 | 12 |
| 82 | Insight into diatom frustule structures using various imaging techniques. <i>Scientific Reports</i> , 2021, 11, 14555. | 3.3 | 12 |
| 83 | Transmission X-ray microscopy using X-ray magnetic circular dichroism. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 73, 697-701. | 2.3 | 11 |
| 84 | Selection of a single femtosecond high-order harmonic using a zone plate based monochromator. <i>Journal of Applied Physics</i> , 2008, 104, . | 2.5 | 11 |
| 85 | Microscopy and spectroscopy with X-rays for studies in the environmental sciences. <i>Mineralogical Magazine</i> , 2008, 72, 211-216. | 1.4 | 11 |
| 86 | X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices. <i>Nanotechnology</i> , 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. <i>Journal of Microscopy</i> , 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. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 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 freeze "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 Magnetics 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 Göttingen 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 |
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