## **Tim Salditt**

List of Publications by Year in descending order

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|          |                | 36303        | 48315          |
|----------|----------------|--------------|----------------|
| 315      | 11,959         | 51           | 88             |
| papers   | citations      | h-index      | g-index        |
|          |                |              |                |
|          |                |              |                |
| 327      | 327            | 327          | 9089           |
| all docs | docs citations | times ranked | citing authors |
|          |                |              |                |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Structure of DNA-Cationic Liposome Complexes: DNA Intercalation in Multilamellar Membranes in<br>Distinct Interhelical Packing Regimes. Science, 1997, 275, 810-814.                                  | 12.6 | 1,385     |
| 2  | An Inverted Hexagonal Phase of Cationic Liposome-DNA Complexes Related to DNA Release and Delivery.<br>, 1998, 281, 78-81.  |      | 1,183     |
| 3  | Phase Diagram, Stability, and Overcharging of Lamellar Cationic Lipid–DNA Self-Assembled Complexes.<br>Biophysical Journal, 1999, 77, 915-924.  | 0.5  | 301       |
| 4  | Quantitative biological imaging by ptychographic x-ray diffraction microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 529-534.                   | 7.1  | 242       |
| 5  | Preparation of Solid-Supported Lipid Bilayers by Spin-Coating. Langmuir, 2002, 18, 8172-8177.   | 3.5  | 212       |
| 6  | Two-Dimensional Smectic Ordering of Linear DNA Chains in Self-Assembled DNA-Cationic Liposome<br>Mixtures. Physical Review Letters, 1997, 79, 2582-2585.  | 7.8  | 206       |
| 7  | Small-angle x-ray scattering under grazing incidence: The cross section in the distorted-wave Born approximation. Physical Review B, 1995, 52, 16855-16863.   | 3.2  | 192       |
| 8  | Hard x-ray nanobeam characterization by coherent diffraction microscopy. Applied Physics Letters, 2010, 96, .   | 3.3  | 159       |
| 9  | Optogenetic stimulation of the auditory pathway. Journal of Clinical Investigation, 2014, 124, 1114-1129.   | 8.2  | 147       |
| 10 | Kinetic Roughness of Amorphous Multilayers Studied by Diffuse X-Ray Scattering. Physical Review<br>Letters, 1994, 73, 2228-2231.  | 7.8  | 146       |
| 11 | Two-Dimensional X-ray Waveguides and Point Sources. Science, 2002, 297, 230-234.  | 12.6 | 145       |
| 12 | Sub-5 nm hard x-ray point focusing by a combined Kirkpatrick-Baez mirror and multilayer zone plate.<br>Optics Express, 2013, 21, 19311.   | 3.4  | 139       |
| 13 | Energetics of stalk intermediates in membrane fusion are controlled by lipid composition.<br>Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1609-18.    | 7.1  | 138       |
| 14 | Structure and Interfacial Aspects of Self-Assembled Cationic Lipidâ^'DNA Gene Carrier Complexes.<br>Langmuir, 1998, 14, 4272-4283.  | 3.5  | 132       |
| 15 | Mechanical Properties of Spider Dragline Silk: Humidity, Hysteresis, and Relaxation. Biophysical<br>Journal, 2007, 93, 4425-4432.   | 0.5  | 126       |
| 16 | Collective Dynamics of Lipid Membranes Studied by Inelastic Neutron Scattering. Physical Review<br>Letters, 2004, 93, 108107.   | 7.8  | 120       |
| 17 | Three-dimensional virtual histology of human cerebellum by X-ray phase-contrast tomography.<br>Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6940-6945. | 7.1  | 112       |
| 18 | Hard X-ray imaging of bacterial cells: nano-diffraction and ptychographic reconstruction. Optics<br>Express, 2012, 20, 19232.   | 3.4  | 107       |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | X-Ray Holographic Imaging of Hydrated Biological Cells in Solution. Physical Review Letters, 2015, 114, 048103.   | 7.8 | 103       |
| 20 | Thermal Unbinding of Highly Oriented Phospholipid Membranes. Physical Review Letters, 2000, 84, 390-393.  | 7.8 | 99        |
| 21 | The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.   | 2.8 | 99        |
| 22 | Determination of the Height-Height Correlation Function of Rough Surfaces from Diffuse X-Ray<br>Scattering. Europhysics Letters, 1995, 32, 331-336.   | 2.0 | 98        |
| 23 | Two-Dimensional Hard X-Ray Beam Compression by Combined Focusing and Waveguide Optics. Physical<br>Review Letters, 2005, 94, 074801.  | 7.8 | 90        |
| 24 | A Highly Unusual Palindromic Transmembrane Helical Hairpin Formed by SARS Coronavirus E Protein.<br>Journal of Molecular Biology, 2004, 341, 769-779.   | 4.2 | 89        |
| 25 | Self-assembled DNA–cationic-lipid complexes: Two-dimensional smectic ordering, correlations, and interactions. Physical Review E, 1998, 58, 889-904.  | 2.1 | 84        |
| 26 | Compound focusing mirror and X-ray waveguide optics for coherent imaging and nano-diffraction.<br>Journal of Synchrotron Radiation, 2015, 22, 867-878.  | 2.4 | 83        |
| 27 | Chemical Contrast in Soft X-Ray Ptychography. Physical Review Letters, 2011, 107, 208101.   | 7.8 | 82        |
| 28 | Determination of the static scaling exponent of self-affine interfaces by nonspecular x-ray scattering.<br>Physical Review B, 1995, 51, 5617-5627.  | 3.2 | 81        |
| 29 | Conformation of Peptides in Lipid Membranes Studied by X-Ray Grazing Incidence Scattering.<br>Biophysical Journal, 2004, 87, 396-407.   | 0.5 | 81        |
| 30 | Specific ion effects in physicochemical and biological systems: Simulations, theory and experiments.<br>Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 303, 110-136.               | 4.7 | 78        |
| 31 | Interfacial roughness and related growth mechanisms in sputtered W/Si multilayers. Physical Review<br>B, 1996, 54, 5860-5872.   | 3.2 | 77        |
| 32 | Short-Range Order and Collective Dynamics of DMPC Bilayers: A Comparison between Molecular<br>Dynamics Simulations, X-Ray, and Neutron Scattering Experiments. Biophysical Journal, 2007, 93,<br>3156-3168. | 0.5 | 77        |
| 33 | Structure of antimicrobial peptides and lipid membranes probed by interface-sensitive X-ray scattering.<br>Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1483-1498.                             | 2.6 | 74        |
| 34 | Drift correction in ptychographic diffractive imaging. Ultramicroscopy, 2013, 126, 44-47.   | 1.9 | 71        |
| 35 | Dispersion Relation of Lipid Membrane Shape Fluctuations by Neutron Spin-Echo Spectrometry.<br>Physical Review Letters, 2006, 97, 048103.   | 7.8 | 70        |
| 36 | Strain Dependent Structural Changes of Spider Dragline Silk. Macromolecules, 2008, 41, 390-398.   | 4.8 | 70        |

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|----|---|-----|-----------|
| 37 | Three-dimensional mouse brain cytoarchitecture revealed by laboratory-based x-ray phase-contrast tomography. Scientific Reports, 2017, 7, 42847.                              | 3.3 | 67        |
| 38 | A two-dimensional waveguide beam for X-ray nanodiffraction. Journal of Applied Crystallography, 2012, 45, 85-92.  | 4.5 | 66        |
| 39 | Transport of intensity phase reconstruction to solve the twin image problem in holographic x-ray imaging. Optics Express, 2013, 21, 2220.                                     | 3.4 | 63        |
| 40 | Phase-contrast zoom tomography reveals precise locations of macrophages in mouse lungs. Scientific Reports, 2015, 5, 9973.  | 3.3 | 63        |
| 41 | Dewetting of solid-supported multilamellar lipid layers. European Physical Journal E, 2002, 8, 275-282.   | 1.6 | 61        |
| 42 | Sub-10â€nm beam confinement by X-ray waveguides: design, fabrication and characterization of optical properties. Journal of Synchrotron Radiation, 2012, 19, 227-236.         | 2.4 | 61        |
| 43 | Thermal fluctuations and stability of solid-supported lipid membranes. Journal of Physics Condensed<br>Matter, 2005, 17, R287-R314.   | 1.8 | 58        |
| 44 | Molecular motions in lipid bilayers studied by the neutron backscattering technique. Physical Review<br>E, 2005, 71, 061908.  | 2.1 | 58        |
| 45 | X-ray waveguides with multiple guiding layers. Physical Review B, 2000, 62, 16939-16943.  | 3.2 | 56        |
| 46 | Ptychographic coherent x-ray diffractive imaging in the water window. Optics Express, 2011, 19, 1037.   | 3.4 | 56        |
| 47 | X-ray propagation microscopy of biological cells using waveguides as a quasipoint source. Physical<br>Review A, 2011, 83, .   | 2.5 | 56        |
| 48 | Phase contrast tomography of the mouse cochlea at microfocus x-ray sources. Applied Physics<br>Letters, 2013, 103, 083703.  | 3.3 | 55        |
| 49 | Structure of two-component lipid membranes on solid support: An x-ray reflectivity study. Physical<br>Review E, 2006, 74, 051911.   | 2.1 | 54        |
| 50 | Short Range Order of Hydrocarbon Chains in Fluid Phospholipid Bilayers Studied by X-Ray Diffraction from Highly Oriented Membranes. Biophysical Journal, 2003, 85, 1576-1584. | 0.5 | 53        |
| 51 | Structure of Magainin and Alamethicin in Model Membranes Studied by X-Ray Reflectivity. Biophysical<br>Journal, 2006, 91, 3285-3300.  | 0.5 | 53        |
| 52 | Waveguide-Based Off-Axis Holography with Hard X Rays. Physical Review Letters, 2006, 97, 254801.  | 7.8 | 52        |
| 53 | Non-specular X-ray scattering from thin films and multilayers with small-angle scattering equipment.<br>Journal Physics D: Applied Physics, 1995, 28, A236-A240.              | 2.8 | 51        |
| 54 | Effect of cholesterol on the lateral nanoscale dynamics of fluid membranes. European Biophysics<br>Journal, 2012, 41, 901-913.  | 2.2 | 51        |

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|----|--|-----|-----------|
| 55 | Thermal Fluctuations and Positional Correlations in Oriented Lipid Membranes. Physical Review Letters, 2003, 90, 178101.   | 7.8 | 50        |
| 56 | A phase-retrieval toolbox for X-ray holography and tomography. Journal of Synchrotron Radiation, 2020, 27, 852-859.  | 2.4 | 49        |
| 57 | Specular and diffuse scattering of highly aligned phospholipid membranes. Physical Review E, 1999, 60, 7285-7289.  | 2.1 | 47        |
| 58 | Myelinated mouse nerves studied by X-ray phase contrast zoom tomography. Journal of Structural<br>Biology, 2015, 192, 561-568.   | 2.8 | 47        |
| 59 | Nonspecular neutron scattering from highly aligned phospholipid membranes. Europhysics Letters, 1999, 46, 486-492.   | 2.0 | 43        |
| 60 | Structure Parameters of Synaptic Vesicles Quantified by Small-Angle X-Ray Scattering. Biophysical<br>Journal, 2010, 98, 1200-1208.   | 0.5 | 43        |
| 61 | X-ray nano-diffraction on cytoskeletal networks. New Journal of Physics, 2012, 14, 085013.   | 2.9 | 43        |
| 62 | Regularized Newton methods for x-ray phase contrast and general imaging problems. Optics Express, 2016, 24, 6490.  | 3.4 | 43        |
| 63 | Bending and Twisting Lattice Tilt in Strained Core–Shell Nanowires Revealed by Nanofocused X-ray<br>Diffraction. Nano Letters, 2017, 17, 4143-4150.                                    | 9.1 | 43        |
| 64 | Four dimensional material movies: High speed phase-contrast tomography by backprojection along dynamically curved paths. Scientific Reports, 2017, 7, 6487.                            | 3.3 | 43        |
| 65 | Propagation-based phase-contrast tomography for high-resolution lung imaging with laboratory sources. AIP Advances, 2016, 6, 035007.   | 1.3 | 42        |
| 66 | The GoÌ^ttingen Holography Endstation of Beamline P10 at PETRA IIIâ^•DESY. AIP Conference Proceedings, 2011, , .   | 0.4 | 41        |
| 67 | Xâ€ray computed tomography and its potential in ecological research: A review of studies and optimization of specimen preparation. Ecology and Evolution, 2018, 8, 7717-7732.          | 1.9 | 40        |
| 68 | Contrast enhancement for visualizing neuronal cytoarchitecture by propagation-based x-ray phase-contrast tomography. NeuroImage, 2019, 199, 70-80.                                     | 4.2 | 40        |
| 69 | Phase Behavior and Interactions of the Membrane-Protein Bacteriorhodopsin. Physical Review Letters,<br>1999, 82, 3184-3187.  | 7.8 | 39        |
| 70 | Semi-transparent central stop in high-resolution X-ray ptychography using Kirkpatrick–Baez focusing.<br>Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 490-497. | 0.3 | 39        |
| 71 | Fabrication of laser deposited high-quality multilayer zone plates for hard X-ray nanofocusing.<br>Applied Surface Science, 2014, 307, 638-644.  | 6.1 | 39        |
| 72 | Vesicle Adhesion and Fusion Studied by Small-Angle X-Ray Scattering. Biophysical Journal, 2018, 114, 1908-1920.  | 0.5 | 39        |

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|----|---|-----|-----------|
| 73 | Membrane fusion intermediates and the effect of cholesterol: An in-house X-ray scattering study.<br>European Physical Journal E, 2009, 30, 205-14.                                  | 1.6 | 38        |
| 74 | Three-dimensional phase retrieval in propagation-based phase-contrast imaging. Physical Review A, 2014, 89, .   | 2.5 | 38        |
| 75 | Temperature dependent structure of spider silk by X-ray diffraction. Applied Physics A: Materials Science and Processing, 2007, 87, 63-69.  | 2.3 | 37        |
| 76 | 3D virtual pathohistology of lung tissue from Covid-19 patients based on phase contrast X-ray tomography. ELife, 2020, 9, .   | 6.0 | 37        |
| 77 | Grazing incidence X-ray diffraction of highly aligned phospholipid membranes containing the antimicrobial peptide magainin 2. European Biophysics Journal, 2000, 28, 683-688.       | 2.2 | 36        |
| 78 | Magainin 2 in phospholipid bilayers: peptide orientation and lipid chain ordering studied by X-ray<br>diffraction. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1562, 37-44. | 2.6 | 36        |
| 79 | Lipid–peptide interaction in oriented bilayers probed by interface-sensitive scattering methods.<br>Current Opinion in Structural Biology, 2003, 13, 467-478.                       | 5.7 | 36        |
| 80 | Reconstruction of wave front and object for inline holography from a set of detection planes. Optics<br>Express, 2014, 22, 11552.   | 3.4 | 36        |
| 81 | Sub-15 nm beam confinement by two crossed x-ray waveguides. Optics Express, 2010, 18, 13492.  | 3.4 | 35        |
| 82 | Partially coherent nano-focused x-ray radiation characterized by Talbot interferometry. Optics<br>Express, 2011, 19, 9656.  | 3.4 | 35        |
| 83 | Coherence filtering of x-ray waveguides: analytical and numerical approach. New Journal of Physics, 2011, 13, 103026.   | 2.9 | 35        |
| 84 | X-ray coherence and ultra small angle resolution at grazing incidence and exit angles. European<br>Physical Journal B, 1994, 96, 227-230.   | 1.5 | 34        |
| 85 | Thermal Denaturing of Bacteriorhodopsin by X-Ray Scattering from Oriented Purple Membranes.<br>Biophysical Journal, 2000, 78, 3208-3217.  | 0.5 | 34        |
| 86 | Thermal Fluctuations of Oriented Lipid Membranes by Nonspecular Neutron Reflectometryâ€. Langmuir,<br>2003, 19, 7703-7711.  | 3.5 | 34        |
| 87 | Spider silk softening by water uptake: an AFM study. European Biophysics Journal, 2008, 37, 197-204.  | 2.2 | 34        |
| 88 | Structure and composition of myelinated axons: A multimodal synchrotron spectro-microscopy study. Journal of Structural Biology, 2011, 173, 202-212.                                | 2.8 | 34        |
| 89 | Low-dose three-dimensional hard x-ray imaging of bacterial cells. Optical Nanoscopy, 2012, 1, 10.   | 4.0 | 34        |
| 90 | Axonal Ensheathment in the Nervous System of Lamprey: Implications for the Evolution of Myelinating Glia. Journal of Neuroscience, 2018, 38, 6586-6596.                             | 3.6 | 34        |

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|-----|---|------|-----------|
| 91  | Title is missing!. European Physical Journal E, 2002, 7, 105-116.   | 1.6  | 34        |
| 92  | Solid-supported lipid multilayers: Structure factor and fluctuations. European Physical Journal E, 2003, 12, 283-290.   | 1.6  | 33        |
| 93  | SARS Coronavirus E Protein in Phospholipid Bilayers: An X-Ray Study. Biophysical Journal, 2006, 90, 2038-2050.  | 0.5  | 33        |
| 94  | Correlative microscopy approach for biology using X-ray holography, X-ray scanning diffraction and STED microscopy. Nature Communications, 2018, 9, 3641.   | 12.8 | 33        |
| 95  | Interaction of Alamethicin Pores in DMPC Bilayers. Biophysical Journal, 2007, 92, 3978-3987.  | 0.5  | 32        |
| 96  | High-dynamic-range coherent diffractive imaging: ptychography using the mixed-mode pixel array detector. Journal of Synchrotron Radiation, 2014, 21, 1167-1174.                                     | 2.4  | 32        |
| 97  | Structure and fluctuations of highly oriented phospholipid membranes. Current Opinion in Colloid and Interface Science, 2000, 5, 19-26.   | 7.4  | 31        |
| 98  | Layer-by-layer self-assembly of supramolecular and biomolecular films. Reviews in Molecular<br>Biotechnology, 2002, 90, 55-70.  | 2.8  | 31        |
| 99  | High-Transmission Planar X-Ray Waveguides. Physical Review Letters, 2008, 100, 184801.  | 7.8  | 31        |
| 100 | Correlative x-ray phase-contrast tomography and histology of human brain tissue affected by<br>Alzheimer's disease. NeuroImage, 2020, 210, 116523.  | 4.2  | 31        |
| 101 | Single-pulse phase-contrast imaging at free-electron lasers in the hard X-ray regime. Journal of Synchrotron Radiation, 2021, 28, 52-63.  | 2.4  | 31        |
| 102 | Splitting of a domain wall near the diamagnetic phase transition. Physical Review B, 1991, 43, 3775-3777.   | 3.2  | 30        |
| 103 | Investigation of Structure and Growth of Self-Assembled Polyelectrolyte Layers by X-ray and Neutron<br>Scattering under Grazing Angles. Journal of Colloid and Interface Science, 2000, 223, 74-82. | 9.4  | 30        |
| 104 | Holographic and diffractive x-ray imaging using waveguides as quasi-point sources. New Journal of<br>Physics, 2010, 12, 035008.   | 2.9  | 30        |
| 105 | Near-field ptychography using lateral and longitudinal shifts. New Journal of Physics, 2015, 17, 073033.  | 2.9  | 30        |
| 106 | Scanning X-Ray Nanodiffraction on Dictyostelium discoideum. Biophysical Journal, 2014, 107, 2662-2673.  | 0.5  | 29        |
| 107 | Finite-difference field calculations for one-dimensionally confined X-ray waveguides. Physica B:<br>Condensed Matter, 2005, 357, 57-60.   | 2.7  | 28        |
| 108 | Biomimetic membranes of lipid–peptide model systems prepared on solid support. Journal of Physics<br>Condensed Matter, 2004, 16, S2439-S2453.   | 1.8  | 27        |

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|-----|--|------|-----------|
| 109 | Stimulated emission depletion microscopy on lithographic nanostructures. Journal of Physics B:<br>Atomic, Molecular and Optical Physics, 2005, 38, S695-S705.  | 1.5  | 27        |
| 110 | Functionalized synchrotron in-line phase-contrast computed tomography: a novel approach for simultaneous quantification of structural alterations and localization of barium-labelled alveolar macrophages within mouse lung samples. Journal of Synchrotron Radiation, 2015, 22, 143-155. | 2.4  | 27        |
| 111 | 3D virtual histology of human pancreatic tissue by multiscale phase-contrast X-ray tomography.<br>Journal of Synchrotron Radiation, 2020, 27, 1707-1719.   | 2.4  | 27        |
| 112 | Reflection of waveguided X-rays in two-dimensional nanostructures. Journal of Applied Crystallography, 2002, 35, 430-433.  | 4.5  | 25        |
| 113 | Highly Oriented, Charged Multilamellar Membranes Osmotically Stressed by a Polyelectrolyte of the Same Sign. Langmuir, 2003, 19, 8235-8244.  | 3.5  | 25        |
| 114 | Nanosecond molecular relaxations in lipid bilayers studied by high energy-resolution neutron scattering andin situdiffraction. Physical Review E, 2007, 75, 011907.  | 2.1  | 25        |
| 115 | Coherent diffractive imaging beyond the projection approximation: waveguiding at extreme ultraviolet wavelengths. Optics Express, 2015, 23, 19911.   | 3.4  | 25        |
| 116 | Anisotropic x-ray scattering and orientation fields in cardiac tissue cells. New Journal of Physics, 2017, 19, 013012.   | 2.9  | 25        |
| 117 | Three-dimensional single-cell imaging with X-ray waveguides in the holographic regime. Acta<br>Crystallographica Section A: Foundations and Advances, 2017, 73, 282-292.   | 0.1  | 25        |
| 118 | Grain rotation and lattice deformation during photoinduced chemical reactions revealed by inÂsitu<br>X-ray nanodiffraction. Nature Materials, 2015, 14, 691-695.   | 27.5 | 24        |
| 119 | How many photons are needed to reconstruct random objects in coherent X-ray diffractive imaging?.<br>Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 19-29.  | 0.1  | 24        |
| 120 | Finite difference methods for stationary and time-dependent X-ray propagation. Optics Express, 2017, 25, 32090.  | 3.4  | 24        |
| 121 | Monolayer of metallo-supramolecular complexes. Chemical Communications, 1998, , 2731-2732.   | 4.1  | 23        |
| 122 | Phase-contrast x-ray imaging and tomography of the nematodeCaenorhabditis elegans. Physics in<br>Medicine and Biology, 2012, 57, 5309-5323.  | 3.0  | 23        |
| 123 | Fiber orientation in a whole mouse heart reconstructed by laboratory phase-contrast micro-CT.<br>Journal of Medical Imaging, 2020, 7, 1.   | 1.5  | 23        |
| 124 | Propagation of X-rays in ultra-narrow slits. Optics Communications, 2006, 265, 140-146.  | 2.1  | 22        |
| 125 | Structure and interaction potentials in solid-supported lipid membranes studied by X-ray reflectivity at varied osmotic pressure. European Physical Journal E, 2006, 20, 221-230.  | 1.6  | 22        |
| 126 | Interbilayer repulsion forces between tension-free lipid bilayers from simulation. Soft Matter, 2013, 9, 10705.  | 2.7  | 22        |

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|-----|--|------|-----------|
| 127 | High aspect ratio x-ray waveguide channels fabricated by e-beam lithography and wafer bonding.<br>Journal of Applied Physics, 2014, 115, 214305.                     | 2.5  | 22        |
| 128 | X-Ray Optics on a Chip: Guiding X Rays in Curved Channels. Physical Review Letters, 2015, 115, 203902.   | 7.8  | 22        |
| 129 | X-Ray Micro- and Nanodiffraction Imaging on Human Mesenchymal Stem Cells and Differentiated Cells.<br>Biophysical Journal, 2016, 110, 680-690.                       | 0.5  | 22        |
| 130 | 3â€Ð Xâ€ray Nanotomography Reveals Different Carbon Deposition Mechanisms in a Single Catalyst<br>Particle. ChemCatChem, 2021, 13, 2494-2507.                        | 3.7  | 22        |
| 131 | Pump-probe X-ray holographic imaging of laser-induced cavitation bubbles with femtosecond FEL pulses. Nature Communications, 2021, 12, 3468.                         | 12.8 | 22        |
| 132 | Stacked 2D Crystalline Sheets of the Membrane-Protein Bacteriorhodopsin: A Specular and Diffuse<br>Reflectivity Study. Physical Review Letters, 1998, 81, 2494-2497. | 7.8  | 21        |
| 133 | Biomolecular and amphiphilic films probed by surface sensitive X-ray and neutron scattering.<br>Analytical and Bioanalytical Chemistry, 2004, 379, 960-73.           | 3.7  | 21        |
| 134 | Finite-difference field calculations for two-dimensionally confined x-ray waveguides. Applied Optics, 2006, 45, 4603.  | 2.1  | 21        |
| 135 | Transmission X-ray microscopy of spider dragline silk. International Journal of Biological<br>Macromolecules, 2007, 40, 87-95.                                       | 7.5  | 21        |
| 136 | A combined Kirkpatrick-Baez mirror and multilayer lens for sub-10 nm x-ray focusing. AIP Advances, 2012, 2, .  | 1.3  | 21        |
| 137 | Measuring Ca2+-Induced Structural Changes in Lipid Monolayers: Implications for Synaptic Vesicle Exocytosis. Biophysical Journal, 2012, 102, 1394-1402.              | 0.5  | 21        |
| 138 | Validity of the empty-beam correction in near-field imaging. Physical Review A, 2015, 91, .  | 2.5  | 21        |
| 139 | Propagation-based phase-contrast x-ray tomography of cochlea using a compact synchrotron source.<br>Scientific Reports, 2018, 8, 4922.                               | 3.3  | 21        |
| 140 | Phase retrieval for near-field X-ray imaging beyond linearisation or compact support. Applied Physics<br>Letters, 2018, 113, 041109.                                 | 3.3  | 21        |
| 141 | Multiscale photonic imaging of the native and implanted cochlea. Proceedings of the National<br>Academy of Sciences of the United States of America, 2021, 118, .    | 7.1  | 21        |
| 142 | 3D virtual histopathology of cardiac tissue from Covid-19 patients based on phase-contrast X-ray tomography. ELife, 2021, 10, .                                      | 6.0  | 21        |
| 143 | Counterion distribution near a monolayer of variable charge density. Europhysics Letters, 2007, 79, 18003.   | 2.0  | 20        |
| 144 | Interactions across liquid thin films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 303, 97-109.  | 4.7  | 20        |

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|-----|---|-----|-----------|
| 145 | Effect of PIP <sub>2</sub> on Bilayer Structure and Phase Behavior of DOPC: An Xâ€ray Scattering Study.<br>ChemPhysChem, 2011, 12, 2633-2640.   | 2.1 | 20        |
| 146 | Phase retrieval for object and probe using a series of defocus near-field images. Optics Express, 2013, 21, 23345.  | 3.4 | 20        |
| 147 | Multilayer Fresnel zone plates for high energy radiation resolve 21 nm features at 12 keV. Optics<br>Express, 2014, 22, 18440.  | 3.4 | 20        |
| 148 | Hard X-ray Detection Using a Single 100 nm Diameter Nanowire. Nano Letters, 2014, 14, 7071-7076.  | 9.1 | 20        |
| 149 | Imaging of neuronal tissues by x-ray diffraction and x-ray fluorescence microscopy: evaluation of contrast and biomarkers for neurodegenerative diseases. Biomedical Optics Express, 2017, 8, 4331.       | 2.9 | 20        |
| 150 | Scanning X-ray diffraction on cardiac tissue: automatized data analysis and processing. Journal of Synchrotron Radiation, 2017, 24, 1163-1172.  | 2.4 | 20        |
| 151 | Collective dynamics in phospholipid bilayers investigated by inelastic neutron scattering: exploring the dynamics of biological membranes with neutrons. Physica B: Condensed Matter, 2004, 350, 136-139. | 2.7 | 19        |
| 152 | X-ray beam compression by tapered waveguides. Applied Physics Letters, 2015, 106, .   | 3.3 | 19        |
| 153 | Three-dimensional virtual histology of the human hippocampus based on phase-contrast computed tomography. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .   | 7.1 | 19        |
| 154 | X-ray waveguides and thin macromolecular films. Physica B: Condensed Matter, 2003, 336, 181-192.  | 2.7 | 18        |
| 155 | Exploring the collective dynamics of lipid membranes with inelastic neutron scattering. Journal of<br>Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1191-1196.                   | 2.1 | 18        |
| 156 | X-Ray propagation imaging of a lipid bilayer in solution. Soft Matter, 2012, 8, 4595.   | 2.7 | 18        |
| 157 | Laboratory-based x-ray phase-contrast tomography enables 3D virtual histology. Proceedings of SPIE, 2016, , .   | 0.8 | 18        |
| 158 | Combined scanning X-ray diffraction and holographic imaging of cardiomyocytes. Journal of Applied<br>Crystallography, 2017, 50, 612-620.  | 4.5 | 18        |
| 159 | The fluence–resolution relationship in holographic and coherent diffractive imaging. Journal of<br>Applied Crystallography, 2017, 50, 531-538.  | 4.5 | 18        |
| 160 | Self-assembled thin films of organo-metal complexes. Thin Solid Films, 1999, 354, 208-214.  | 1.8 | 17        |
| 161 | Waveguide-enhanced scattering from thin biomolecular films. Journal of Applied Crystallography, 2002, 35, 163-167.  | 4.5 | 17        |
| 162 | Front-coupling of a prefocused x-ray beam into a monomodal planar waveguide. Applied Physics<br>Letters, 2004, 85, 1907-1909.   | 3.3 | 17        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 163 | Electric field unbinding of solid-supported lipid multilayers. European Physical Journal E, 2005, 18, 273-278.   | 1.6 | 17        |
| 164 | X-ray Structure Analysis of Free-Standing Lipid Membranes Facilitated by Micromachined Apertures.<br>Langmuir, 2008, 24, 4952-4958.  | 3.5 | 17        |
| 165 | Iterative reconstruction of a refractive-index profile from x-ray or neutron reflectivity measurements. Physical Review E, 2008, 77, 051604.   | 2.1 | 16        |
| 166 | <i>In vitro</i> study of interaction of synaptic vesicles with lipid membranes. New Journal of Physics, 2010, 12, 105004.  | 2.9 | 16        |
| 167 | Collective Lipid Bilayer Dynamics Excited by Surface Acoustic Waves. Physical Review Letters, 2014, 113, 118102.   | 7.8 | 16        |
| 168 | High-flux ptychographic imaging using the new 55â€Âµm-pixel detector `Lambda' based on the Medipix3<br>readout chip. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 552-562.              | 0.1 | 16        |
| 169 | Formation and development of the male copulatory organ in the spider Parasteatoda tepidariorum involves a metamorphosis-like process. Scientific Reports, 2019, 9, 6945.   | 3.3 | 16        |
| 170 | Probe reconstruction for holographic X-ray imaging. Journal of Synchrotron Radiation, 2017, 24, 498-505.   | 2.4 | 16        |
| 171 | Fully hydrated and highly oriented membranes: an experimental setup amenable to specular and diffuse<br>X-ray scattering. Physica B: Condensed Matter, 2000, 283, 32-36.   | 2.7 | 15        |
| 172 | Solid supported multicomponent lipid membranes studied by x-ray spectromicroscopy. Biointerphases, 2008, 3, FB44-FB54.   | 1.6 | 15        |
| 173 | Real structure effects in X-ray waveguide optics: The influence of interfacial roughness and refractive index profile on the near-field and far-field distribution. Optics Communications, 2009, 282, 3250-3256. | 2.1 | 15        |
| 174 | Influence of cholesterol on the collective dynamics of the phospholipid acyl chains in model membranes. European Physical Journal E, 2010, 31, 419-428.  | 1.6 | 15        |
| 175 | Synaptic vesicles studied by dynamic light scattering. European Physical Journal E, 2011, 34, 63.  | 1.6 | 15        |
| 176 | Versatility of a hard X-ray Kirkpatrick–Baez focus characterized by ptychography. Journal of<br>Synchrotron Radiation, 2013, 20, 490-497.  | 2.4 | 15        |
| 177 | Phase-contrast tomography of neuronal tissues: from laboratory- to high resolution synchrotron CT. Proceedings of SPIE, 2016, , .  | 0.8 | 15        |
| 178 | Phase-contrast x-ray tomography of neuronal tissue at laboratory sources with submicron resolution. Journal of Medical Imaging, 2020, 7, 1.  | 1.5 | 15        |
| 179 | Kinetic roughening of a terrace ledge. Physical Review E, 1993, 47, 3524-3531.   | 2.1 | 14        |
| 180 | Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1999, 35, 35-43.  | 1.6 | 14        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 181 | Active membranes studied by X-ray scattering. European Physical Journal E, 2007, 23, 431-437.  | 1.6  | 14        |
| 182 | Stalk formation as a function of lipid composition studied by X-ray reflectivity. Biochimica Et<br>Biophysica Acta - Biomembranes, 2015, 1848, 41-50.                    | 2.6  | 14        |
| 183 | Using sparsity information for iterative phase retrieval in x-ray propagation imaging. Optics Express, 2016, 24, 8332.   | 3.4  | 14        |
| 184 | In Operando Xâ€Ray Nanodiffraction Reveals Electrically Induced Bending and Lattice Contraction in a<br>Single Nanowire Device. Advanced Materials, 2016, 28, 1788-1792. | 21.0 | 14        |
| 185 | Observation of the Huygens-principle growth mechanism in sputtered W/Si multilayers. Europhysics<br>Letters, 1996, 36, 565-570.  | 2.0  | 13        |
| 186 | X-ray propagation in tapered waveguides: Simulation and optimization. Optics Communications, 2008, 281, 2779-2783.   | 2.1  | 13        |
| 187 | Single pulse coherence measurements in the water window at the free-electron laser FLASH. Optics Express, 2013, 21, 13005.   | 3.4  | 13        |
| 188 | X-ray reflectivity of solid-supported, multilamellar membranes. European Physical Journal E, 2002, 7,<br>105-116.  | 1.6  | 12        |
| 189 | Diffraction from the $\hat{l}^2$ -sheet crystallites in spider silk. European Physical Journal E, 2008, 27, 229-42.  | 1.6  | 12        |
| 190 | Hard x-ray phase contrast imaging of black lipid membranes. Applied Physics Letters, 2009, 95, .   | 3.3  | 12        |
| 191 | Orientation of biomolecular assemblies in a microfluidic jet. New Journal of Physics, 2010, 12, 043056.  | 2.9  | 12        |
| 192 | The holography endstation of beamline P10 at PETRA III. AIP Conference Proceedings, 2010, , .  | 0.4  | 12        |
| 193 | Standing surface acoustic waves in LiNbO3 studied by time resolved X-ray diffraction at Petra III. AIP Advances, 2013, 3, 072127.  | 1.3  | 12        |
| 194 | Quantitative X-ray phase contrast waveguide imaging of bacterial endospores. Journal of Applied<br>Crystallography, 2015, 48, 464-476.                                   | 4.5  | 12        |
| 195 | Advances in fabrication of X-ray waveguides. Microelectronic Engineering, 2016, 164, 135-138.  | 2.4  | 12        |
| 196 | X-ray structural investigations of fusion intermediates: Lipid model systems and beyond. Seminars in<br>Cell and Developmental Biology, 2016, 60, 65-77.                 | 5.0  | 12        |
| 197 | Three-dimensional propagation in near-field tomographic X-ray phase retrieval. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 215-221.            | 0.1  | 12        |
| 198 | Coherence-resolution relationship in holographic and coherent diffractive imaging. Optics Express, 2018, 26, 242.  | 3.4  | 12        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 199 | X-ray diffraction imaging of cardiac cells and tissue. Progress in Biophysics and Molecular Biology, 2019, 144, 151-165.   | 2.9 | 12        |
| 200 | Diffuse X-ray scattering of amorphous multilayers. Journal De Physique III, 1994, 4, 1573-1580.  | 0.3 | 12        |
| 201 | Time-resolved coherent X-ray diffraction imaging of surface acoustic waves. Journal of Applied<br>Crystallography, 2014, 47, 1596-1605.  | 4.5 | 12        |
| 202 | Focus characterization of the NanoMAX Kirkpatrick–Baez mirror system. Journal of Synchrotron<br>Radiation, 2019, 26, 1173-1180.  | 2.4 | 12        |
| 203 | Multiscale x-ray phase-contrast tomography in a mouse model of transient focal cerebral ischemia.<br>Biomedical Optics Express, 2019, 10, 92.  | 2.9 | 12        |
| 204 | Multi-scale X-ray phase-contrast tomography of murine heart tissue. Biomedical Optics Express, 2020, 11, 2633.   | 2.9 | 12        |
| 205 | Characterization of interface roughness in W/Si multilayers by high resolution diffuse X-ray scattering. Physica B: Condensed Matter, 1996, 221, 13-17.                              | 2.7 | 11        |
| 206 | White beam x-ray waveguide optics. Applied Physics Letters, 2004, 85, 161-163.   | 3.3 | 11        |
| 207 | Elasticity of fluctuating charged membranes probed by X-ray grazing-incidence diffuse scattering.<br>Europhysics Letters, 2006, 75, 992-998.   | 2.0 | 11        |
| 208 | Conformation and Interaction of a <scp>d,l</scp> â€Alternating Peptide with a Bilayer Membrane: Xâ€ray<br>Reflectivity, CD, and FTIR Spectroscopy. ChemPhysChem, 2007, 8, 2336-2343. | 2.1 | 11        |
| 209 | Synaptic Vesicles Studied by SAXS: Derivation and Validation of a Model Form Factor. Journal of Physics: Conference Series, 2010, 247, 012015.                                       | 0.4 | 11        |
| 210 | Peptide model helices in lipid membranes: insertion, positioning, and lipid response on aggregation studied by X-ray scattering. European Biophysics Journal, 2011, 40, 417-436.     | 2.2 | 11        |
| 211 | Nano-Scale Morphology of Melanosomes Revealed by Small-Angle X-Ray Scattering. PLoS ONE, 2014, 9, e90884.  | 2.5 | 11        |
| 212 | Combined in-situ imaging of structural organization and elemental composition of substantia nigra neurons in the elderly. Talanta, 2016, 161, 368-376.                               | 5.5 | 11        |
| 213 | Radiation damage studies in cardiac muscle cells and tissue using microfocused X-ray beams: experiment and simulation. Journal of Synchrotron Radiation, 2019, 26, 980-990.          | 2.4 | 11        |
| 214 | Vesicle adhesion in the electrostatic strong-coupling regime studied by time-resolved small-angle<br>X-ray scattering. Soft Matter, 2020, 16, 4142-4154.                             | 2.7 | 11        |
| 215 | Holographic imaging with a hard x-ray nanoprobe: ptychographic versus conventional phase retrieval.<br>Optics Letters, 2016, 41, 5519.   | 3.3 | 11        |
| 216 | Dynamics of bulk fluctuations in a lamellar phase studied by coherent x-ray scattering. Physical<br>Review E, 2006, 74, 031706.  | 2.1 | 10        |

| #   | Article  | IF        | CITATIONS |
|-----|--|-----------|-----------|
| 217 | X-ray waveguide nanostructures: Design, fabrication, and characterization. Journal of Applied Physics, 2007, 101, 054306.  | 2.5       | 10        |
| 218 | Projection phase contrast microscopy with a hard x-ray nanofocused beam: Defocus and contrast transfer. Physical Review B, 2009, 79, .   | 3.2       | 10        |
| 219 | Nonequilibrium Collective Dynamics in Photoexcited Lipid Multilayers by Time Resolved Diffuse X-Ray<br>Scattering. Physical Review Letters, 2013, 111, 268101.   | 7.8       | 10        |
| 220 | Towards multi-order hard X-ray imaging with multilayer zone plates. Journal of Applied<br>Crystallography, 2015, 48, 116-124.  | 4.5       | 10        |
| 221 | X-ray diffraction and second harmonic imaging reveal new insights into structural alterations caused by pressure-overload in murine hearts. Scientific Reports, 2020, 10, 19317.                                 | 3.3       | 10        |
| 222 | Three-dimensional virtual histology of the cerebral cortex based on phase-contrast X-ray<br>tomography. Biomedical Optics Express, 2021, 12, 7582.   | 2.9       | 10        |
| 223 | Observation of electron-induced characteristic x-ray and bremsstrahlung radiation from a waveguide cavity. Science Advances, 2021, 7, .  | 10.3      | 9         |
| 224 | Elastic scattering under simultaneous excitation of x-ray standing waves in multilayers. Journal of<br>Applied Physics, 1998, 83, 5179-5184.   | 2.5       | 8         |
| 225 | Atomic force microscopy study of thick lamellar stacks of phospholipid bilayers. Physical Review E, 2008, 77, 021905.  | 2.1       | 8         |
| 226 | Non-iterative coherent diffractive imaging using a phase-shifting reference frame. New Journal of Physics, 2009, 11, 043021.   | 2.9       | 8         |
| 227 | Acyl-Chain Correlation in Membrane Fusion Intermediates: X-Ray Diffraction from the Rhombohedral<br>Lipid Phase. Biophysical Journal, 2012, 102, 2121-2129.  | 0.5       | 8         |
| 228 | Heavyâ€Atom Labeled Transmembrane βâ€Peptides: Synthesis, CDâ€&pectroscopy, and Xâ€ray Diffraction Studi<br>in Model Lipid Multilayer. ChemPhysChem, 2016, 17, 2525-2534.  | es<br>2.1 | 8         |
| 229 | In-line holography with hard x-rays at sub-15  nm resolution. Optica, 2021, 8, 818.  | 9.3       | 8         |
| 230 | Elemental quantification and analysis of structural abnormalities in neurons from<br>Parkinson's-diseased brains by X-ray fluorescence microscopy and diffraction. Biomedical Optics<br>Express, 2020, 11, 3423. | 2.9       | 8         |
| 231 | Two-dimensional X-ray waveguides on a grating. Physica B: Condensed Matter, 2005, 357, 53-56.  | 2.7       | 7         |
| 232 | Disorder Influence on Linear Dichroism Analyses of Smectic Phases. Biophysical Journal, 2005, 89,<br>563-571.  | 0.5       | 7         |
| 233 | A Novel Heavyâ€Atom Label for Sideâ€Specific Peptide Iodination: Synthesis, Membrane Incorporation and<br>Xâ€ray Reflectivity. ChemPhysChem, 2009, 10, 1567-1576.  | 2.1       | 7         |
| 234 | New X-Ray Tomography Method Based on the 3D Radon Transform Compatible with Anisotropic Sources. Physical Review Letters, 2016, 116, 088101.   | 7.8       | 7         |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 235 | Divide and update: towards single-shot object and probe retrieval for near-field holography. Optics<br>Express, 2017, 25, 20953.  | 3.4 | 7         |
| 236 | The effect of polydispersity, shape fluctuations and curvature on small unilamellar vesicle small-angle X-ray scattering curves. Journal of Applied Crystallography, 2021, 54, 557-568. | 4.5 | 7         |
| 237 | Reconstitution of SNARE proteins into solid-supported lipid bilayer stacks and X-ray structure analysis. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 566-578.             | 2.6 | 7         |
| 238 | <title>New design schemes for x-ray waveguides based on multiple guiding layers and two-dimensional nanostructures</title> . , 2001, 4145, 193.   |     | 6         |
| 239 | SARS E protein in phospholipid bilayers: an anomalous X-ray reflectivity study. Physica B: Condensed<br>Matter, 2005, 357, 34-38.   | 2.7 | 6         |
| 240 | Coherent X-ray scattering and speckle pattern of solid-supported multilayers of surfactant bilayers.<br>Physica B: Condensed Matter, 2005, 357, 61-65.                                  | 2.7 | 6         |
| 241 | Probing dynamics at interfaces: options for neutron and X-ray spectroscopy. Journal of Neutron Research, 2006, 14, 257-268.   | 1.1 | 6         |
| 242 | Viral ion channel proteins in model membranes: a comparative study by X-ray reflectivity. European<br>Biophysics Journal, 2006, 36, 45-55.  | 2.2 | 6         |
| 243 | Object localization with 10nm accuracy by x-ray phase contrast projection imaging. Applied Physics<br>Letters, 2007, 91, .  | 3.3 | 6         |
| 244 | Two-dimensional X-ray waveguides: fabrication by wafer-bonding process and characterization.<br>Applied Physics A: Materials Science and Processing, 2008, 91, 7-12.                    | 2.3 | 6         |
| 245 | X-Ray Microscopy for Neuroscience: Novel Opportunities by Coherent Optics. Neuromethods, 2014, , 257-290.   | 0.3 | 6         |
| 246 | X-ray phase contrast tomography from whole organ down to single cells. Proceedings of SPIE, 2014, , .   | 0.8 | 6         |
| 247 | Nanosecond timing and synchronization scheme for holographic pump–probe studies at the MID<br>instrument at European XFEL. Journal of Synchrotron Radiation, 2021, 28, 987-994.         | 2.4 | 6         |
| 248 | Nanoscale x-ray holotomography of human brain tissue with phase retrieval based on multienergy recordings. Journal of Medical Imaging, 2020, 7, 1.                                      | 1.5 | 6         |
| 249 | Lipid membranes on a surface grating studied by neutron reflectometry. Europhysics Letters, 2005, 71, 311-317.  | 2.0 | 5         |
| 250 | Coherent propagation of white X-rays in a planar waveguide. Journal of Synchrotron Radiation, 2006, 13, 69-73.  | 2.4 | 5         |
| 251 | Structure and Volta Potential of Lipid Multilayers: Effect of X-ray Irradiation. Langmuir, 2013, 29, 815-824.   | 3.5 | 5         |
|     |   |     |           |

252 Two-dimensional sub-5-nm hard x-ray focusing with MZP. , 2013, , .

5

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 253 | Miniaturized beamsplitters realized by X-ray waveguides. Acta Crystallographica Section A:<br>Foundations and Advances, 2016, 72, 515-522.                                   | 0.1 | 5         |
| 254 | Xâ€ray waveguide arrays: tailored near fields by multiâ€beam interference. X-Ray Spectrometry, 2017, 46,<br>107-115.   | 1.4 | 5         |
| 255 | Reconstructing mode mixtures in the optical near-field. Optics Express, 2017, 25, 13973.   | 3.4 | 5         |
| 256 | The optical stretcher as a tool for single-particle X-ray imaging and diffraction. Journal of Synchrotron Radiation, 2018, 25, 1196-1205.                                    | 2.4 | 5         |
| 257 | X-Ray Structural Analysis of Single Adult Cardiomyocytes: Tomographic Imaging and Microdiffraction.<br>Biophysical Journal, 2020, 119, 1309-1323.                            | 0.5 | 5         |
| 258 | 3D analysis of the myenteric plexus of the human bowel by X-ray phase-contrast tomography – a future method?. Scandinavian Journal of Gastroenterology, 2020, 55, 1261-1267. | 1.5 | 5         |
| 259 | A stalk fluid forming above the transition from the lamellar to the rhombohedral phase of lipid membranes. European Biophysics Journal, 2021, 50, 265-278.                   | 2.2 | 5         |
| 260 | Field induced motion of domain walls in uniaxial ferromagnets and ferroelectrics. Solid State Communications, 1992, 82, 911-913.   | 1.9 | 4         |
| 261 | Recent advances in use of atomic layer deposition and focused ion beams for fabrication of Fresnel zone plates for hard x-rays. , 2013, , .                                  |     | 4         |
| 262 | Simultaneous high-resolution scanning Bragg contrast and ptychographic imaging of a single solar cell nanowire. Journal of Applied Crystallography, 2015, 48, 1818-1826.     | 4.5 | 4         |
| 263 | Scanning Hard X-ray Microscopy Imaging Modalities for Geobiological Samples. Geomicrobiology<br>Journal, 2015, 32, 380-383.  | 2.0 | 4         |
| 264 | Nanotomographic evaluation of precipitate structure evolution in a Mg–Zn–Zr alloy during plastic deformation. Scientific Reports, 2020, 10, 16101.                           | 3.3 | 4         |
| 265 | X-ray Focusing and Optics. Topics in Applied Physics, 2020, , 71-124.  | 0.8 | 4         |
| 266 | Nanoscale holographic tomography of heart tissue with x-ray waveguide optics. , 2017, , .  |     | 4         |
| 267 | Coherent Diffractive Imaging with Diffractive Optics. Physical Review Letters, 2022, 128, .  | 7.8 | 4         |
| 268 | 1D and 2D X-ray waveguides: Optics and applications. European Physical Journal Special Topics, 2003, 104, 211-216.   | 0.2 | 3         |
| 269 | The â€~neutron window' of collective excitations in lipid membranes. Physica B: Condensed Matter, 2006, 385-386, 722-724.  | 2.7 | 3         |
| 270 | Pulse-resolved multi-photon X-ray detection at 31â€MHz based on a quadrant avalanche photodiode.<br>Journal of Synchrotron Radiation, 2014, 21, 708-715.                     | 2.4 | 3         |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 271 | Correlative Microscopy of Biological Cells and Tissues by Scanning X-ray Diffraction, Holography,<br>Tomography and Super-Resolution Optical Microscopy. Microscopy and Microanalysis, 2018, 24, 64-67.        | 0.4 | 3         |
| 272 | 3d phaseâ€contrast nanotomography of unstained human skin biopsies may identify morphological<br>differences in the dermis and epidermis between subjects. Skin Research and Technology, 2021, 27,<br>316-323. | 1.6 | 3         |
| 273 | On incoherent diffractive imaging. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 480-496.  | 0.1 | 3         |
| 274 | Nuclear Spin-Lattice Relaxation Under the QHE Conditions in the Edge States. Springer Series in Solid-state Sciences, 1992, , 131-134.   | 0.3 | 3         |
| 275 | Partially coherent x-ray beam simulations: mirrors and more. Proceedings of SPIE, 2011, , .  | 0.8 | 3         |
| 276 | Finite-difference propagation for the simulation of x-ray multilayer optics. Optics Express, 2021, 29, 41932.  | 3.4 | 3         |
| 277 | Fluorescence imaging ofDictyostelium discoideumwith a hard X-ray nanoprobe. Journal of Physics:<br>Conference Series, 2009, 186, 012086.   | 0.4 | 2         |
| 278 | Actin bundles cross-linked with \$\$upalpha\$\$ α -actinin studied by nanobeam X-ray diffraction.<br>European Biophysics Journal, 2016, 45, 383-392.   | 2.2 | 2         |
| 279 | Goos-Hächen effect observed for focused x-ray beams under resonant mode excitation. Optics<br>Express, 2017, 25, 17431.  | 3.4 | 2         |
| 280 | Phase-contrast tomography of sciatic nerves: image quality and experimental parameters. Journal of<br>Physics: Conference Series, 2017, 849, 012001.   | 0.4 | 2         |
| 281 | Solving the Phase Problem in X-Ray Near-Field Holography Beyond the Assumption of Weak Objects.<br>Microscopy and Microanalysis, 2018, 24, 40-41.  | 0.4 | 2         |
| 282 | Time-resolved x-ray phase-contrast tomography of sedimenting micro-spheres. New Journal of Physics, 2019, 21, 043017.  | 2.9 | 2         |
| 283 | 2. X-ray structure analysis of lipid membrane systems: solid-supported bilayers, bilayer stacks, and vesicles. , 2019, , 43-86.  |     | 2         |
| 284 | Reconstruction of the near-field distribution in an X-ray waveguide array. Journal of Applied<br>Crystallography, 2017, 50, 701-711.   | 4.5 | 2         |
| 285 | Phase-contrast x-ray tomography of neuronal tissue at laboratory sources with submicron resolution. , 2019, , .  |     | 2         |
| 286 | Nanoscale x-ray holo-tomography of human brain tissue with phase retrieval based on multiphoton energy recordings. , 2019, , .   |     | 2         |
| 287 | Spectral µCT with an energy resolving and interpolating pixel detector. Optics Express, 2020, 28, 9842.  | 3.4 | 2         |
| 288 | X-ray fluorescence microscopy of olfactory receptor neurons. Journal of Physics: Conference Series,  | 0.4 | 1         |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 289 | Hard X-Ray Phase Contrast Imaging of Black Lipid Membranes. , 2010, , .   |     | 1         |
| 290 | Tomography with extended sources: Theory, error estimates, and a reconstruction algorithm.<br>Physical Review A, 2017, 96, .  | 2.5 | 1         |
| 291 | Scanning Small-Angle-X-Ray Scattering for Imaging Biological Cells. Microscopy and Microanalysis, 2018, 24, 336-339.  | 0.4 | 1         |
| 292 | A beamline-compatible STED microscope for combined visible-light and X-ray studies of biological matter. Journal of Synchrotron Radiation, 2019, 26, 1144-1151.                     | 2.4 | 1         |
| 293 | STXM analysis: Preparing to go live @ 750â€Hz. AIP Conference Proceedings, 2019, , .  | 0.4 | 1         |
| 294 | X-ray phase-contrast tomography as a tool for 3D virtual histology: the example of lung tissue in severe cases of Covid-19. , 2021, , .   |     | 1         |
| 295 | Combined scanning small-angle X-ray scattering and holography probes multiple length scales in cell nuclei. Journal of Synchrotron Radiation, 2021, 28, 518-529.                    | 2.4 | 1         |
| 296 | Evaluation of different heavy-metal stains and embedding media for phase contrast tomography of neuronal tissue. , 2019, , .  |     | 1         |
| 297 | Fiber orientation in a whole mouse heart reconstructed by laboratory phase-contrast micro-CT. , 2019,   |     | 1         |
| 298 | Scanning Small-Angle X-ray Scattering and Coherent X-ray Imaging of Cells. Topics in Applied Physics, 2020, , 405-433.  | 0.8 | 1         |
| 299 | Holographic Imaging and Tomography of Biological Cells and Tissues. Topics in Applied Physics, 2020, , 339-376.   | 0.8 | 1         |
| 300 | Iterative micro-tomography of biopsy samples from truncated projections with quantitative gray values. Physics in Medicine and Biology, 2020, 65, 235034.                           | 3.0 | 1         |
| 301 | Characterization of roughness correlations in W/Si multilayers by diffuse x-ray scattering. European<br>Physical Journal Special Topics, 1994, 04, C9-171-C9-174.                   | 0.2 | 0         |
| 302 | Interface Morphology of RF-Sputtered NB/AL2O3 Multilayers Studied by X-Ray Reflectivity and Diffuse<br>Scattering. Materials Research Society Symposia Proceedings, 1994, 355, 269. | 0.1 | 0         |
| 303 | Kinetic Roughness of Amorphous Multilayers Studied by Diffuse X-Ray Scattering. Physical Review<br>Letters, 1995, 74, 1890-1890.  | 7.8 | 0         |
| 304 | Structure Analysis of Synaptic Vesicles by Solution Small-Angle Scattering of X-Rays. Biophysical<br>Journal, 2010, 98, 284a.   | 0.5 | 0         |
| 305 | X-Ray Phase Contrast Imaging of Freestanding Lipid Model Membranes. Biophysical Journal, 2011, 100, 337a-338a.  | 0.5 | 0         |
| 306 | RĶntgenmikroskopie ohne Linsen: vom Objekt zum Beugungsbild und zurļck. Akademie Der<br>Wissenschaften Zu Goettingen Jahrbuch, 2012, 2011, 299-319.                                 | 0.0 | 0         |

IF ARTICLE # CITATIONS Membrane Fusion by X-Rays: From Model Membranes to Organelles. Biophysical Journal, 2014, 106, 3a. Progress on multi-order hard x-ray imaging with multilayer zone plates., 2015,,. 308 0 6. Phase contrast radiography., 2017, , 244-320. 3d Virtual Histology of Human Cerebellum by Propagation-Based X-Ray Phase-Contrast Tomography. 310 0.4 0 Microscopy and Microanalysis, 2018, 24, 24-25. La dynamique collective des membranes bicouches de modÃ"le étudié par diffusion inélastique de neutrons. European Physical Journal Special Topics, 2005, 130, 141-151. Structure and Dynamics of Model Membrane Systems Probed by Elastic and Inelastic Neutron Scattering. Biological and Medical Physics Series, 2006, , 503-530. 312 0.4 0 10.1063/1.4943898.1., 2016,,. Simulations and experiments on vibration damping for zoom-holography and nano-scanning at the 314 0 GINIX., 2017,,. Coherent X-ray Imaging. Topics in Applied Physics, 2020, , 35-70.

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