

# Tim Salditt

## List of Publications by Year in descending order

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315  
papers

11,959  
citations

36203

51  
h-index

48187

88  
g-index

327  
all docs

327  
docs citations

327  
times ranked

9089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of DNA-Cationic Liposome Complexes: DNA Intercalation in Multilamellar Membranes in Distinct Interhelical Packing Regimes. <i>Science</i> , 1997, 275, 810-814.	6.0	1,385
2	An Inverted Hexagonal Phase of Cationic Liposome-DNA Complexes Related to DNA Release and Delivery. <i>Science</i> , 1998, 281, 78-81.		1,183
3	Phase Diagram, Stability, and Overcharging of Lamellar Cationic Lipid-DNA Self-Assembled Complexes. <i>Biophysical Journal</i> , 1999, 77, 915-924.	0.2	301
4	Quantitative biological imaging by ptychographic x-ray diffraction microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 529-534.	3.3	242
5	Preparation of Solid-Supported Lipid Bilayers by Spin-Coating. <i>Langmuir</i> , 2002, 18, 8172-8177.	1.6	212
6	Two-Dimensional Smectic Ordering of Linear DNA Chains in Self-Assembled DNA-Cationic Liposome Mixtures. <i>Physical Review Letters</i> , 1997, 79, 2582-2585.	2.9	206
7	Small-angle x-ray scattering under grazing incidence: The cross section in the distorted-wave Born approximation. <i>Physical Review B</i> , 1995, 52, 16855-16863.	1.1	192
8	Hard x-ray nanobeam characterization by coherent diffraction microscopy. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	159
9	Optogenetic stimulation of the auditory pathway. <i>Journal of Clinical Investigation</i> , 2014, 124, 1114-1129.	3.9	147
10	Kinetic Roughness of Amorphous Multilayers Studied by Diffuse X-Ray Scattering. <i>Physical Review Letters</i> , 1994, 73, 2228-2231.	2.9	146
11	Two-Dimensional X-ray Waveguides and Point Sources. <i>Science</i> , 2002, 297, 230-234.	6.0	145
12	Sub-5 nm hard x-ray point focusing by a combined Kirkpatrick-Baez mirror and multilayer zone plate. <i>Optics Express</i> , 2013, 21, 19311.	1.7	139
13	Energetics of stalk intermediates in membrane fusion are controlled by lipid composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1609-18.	3.3	138
14	Structure and Interfacial Aspects of Self-Assembled Cationic Lipid-DNA Gene Carrier Complexes. <i>Langmuir</i> , 1998, 14, 4272-4283.	1.6	132
15	Mechanical Properties of Spider Dragline Silk: Humidity, Hysteresis, and Relaxation. <i>Biophysical Journal</i> , 2007, 93, 4425-4432.	0.2	126
16	Collective Dynamics of Lipid Membranes Studied by Inelastic Neutron Scattering. <i>Physical Review Letters</i> , 2004, 93, 108107.	2.9	120
17	Three-dimensional virtual histology of human cerebellum by X-ray phase-contrast tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6940-6945.	3.3	112
18	Hard X-ray imaging of bacterial cells: nano-diffraction and ptychographic reconstruction. <i>Optics Express</i> , 2012, 20, 19232.	1.7	107

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19	X-Ray Holographic Imaging of Hydrated Biological Cells in Solution. <i>Physical Review Letters</i> , 2015, 114, 048103.	2.9	103
20	Thermal Unbinding of Highly Oriented Phospholipid Membranes. <i>Physical Review Letters</i> , 2000, 84, 390-393.	2.9	99
21	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	1.3	99
22	Determination of the Height-Height Correlation Function of Rough Surfaces from Diffuse X-Ray Scattering. <i>Europhysics Letters</i> , 1995, 32, 331-336.	0.7	98
23	Two-Dimensional Hard X-Ray Beam Compression by Combined Focusing and Waveguide Optics. <i>Physical Review Letters</i> , 2005, 94, 074801.	2.9	90
24	A Highly Unusual Palindromic Transmembrane Helical Hairpin Formed by SARS Coronavirus E Protein. <i>Journal of Molecular Biology</i> , 2004, 341, 769-779.	2.0	89
25	Self-assembled DNA-cationic-lipid complexes: Two-dimensional smectic ordering, correlations, and interactions. <i>Physical Review E</i> , 1998, 58, 889-904.	0.8	84
26	Compound focusing mirror and X-ray waveguide optics for coherent imaging and nano-diffraction. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 867-878.	1.0	83
27	Chemical Contrast in Soft X-Ray Ptychography. <i>Physical Review Letters</i> , 2011, 107, 208101.	2.9	82
28	Determination of the static scaling exponent of self-affine interfaces by nonspecular x-ray scattering. <i>Physical Review B</i> , 1995, 51, 5617-5627.	1.1	81
29	Conformation of Peptides in Lipid Membranes Studied by X-Ray Grazing Incidence Scattering. <i>Biophysical Journal</i> , 2004, 87, 396-407.	0.2	81
30	Specific ion effects in physicochemical and biological systems: Simulations, theory and experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 303, 110-136.	2.3	78
31	Interfacial roughness and related growth mechanisms in sputtered W/Si multilayers. <i>Physical Review B</i> , 1996, 54, 5860-5872.	1.1	77
32	Short-Range Order and Collective Dynamics of DMPC Bilayers: A Comparison between Molecular Dynamics Simulations, X-Ray, and Neutron Scattering Experiments. <i>Biophysical Journal</i> , 2007, 93, 3156-3168.	0.2	77
33	Structure of antimicrobial peptides and lipid membranes probed by interface-sensitive X-ray scattering. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1483-1498.	1.4	74
34	Drift correction in ptychographic diffractive imaging. <i>Ultramicroscopy</i> , 2013, 126, 44-47.	0.8	71
35	Dispersion Relation of Lipid Membrane Shape Fluctuations by Neutron Spin-Echo Spectrometry. <i>Physical Review Letters</i> , 2006, 97, 048103.	2.9	70
36	Strain Dependent Structural Changes of Spider Dragline Silk. <i>Macromolecules</i> , 2008, 41, 390-398.	2.2	70

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37	Three-dimensional mouse brain cytoarchitecture revealed by laboratory-based x-ray phase-contrast tomography. <i>Scientific Reports</i> , 2017, 7, 42847.	1.6	67
38	A two-dimensional waveguide beam for X-ray nanodiffraction. <i>Journal of Applied Crystallography</i> , 2012, 45, 85-92.	1.9	66
39	Transport of intensity phase reconstruction to solve the twin image problem in holographic x-ray imaging. <i>Optics Express</i> , 2013, 21, 2220.	1.7	63
40	Phase-contrast zoom tomography reveals precise locations of macrophages in mouse lungs. <i>Scientific Reports</i> , 2015, 5, 9973.	1.6	63
41	Dewetting of solid-supported multilamellar lipid layers. <i>European Physical Journal E</i> , 2002, 8, 275-282.	0.7	61
42	Sub-10-nm beam confinement by X-ray waveguides: design, fabrication and characterization of optical properties. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 227-236.	1.0	61
43	Thermal fluctuations and stability of solid-supported lipid membranes. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R287-R314.	0.7	58
44	Molecular motions in lipid bilayers studied by the neutron backscattering technique. <i>Physical Review E</i> , 2005, 71, 061908.	0.8	58
45	X-ray waveguides with multiple guiding layers. <i>Physical Review B</i> , 2000, 62, 16939-16943.	1.1	56
46	Ptychographic coherent x-ray diffractive imaging in the water window. <i>Optics Express</i> , 2011, 19, 1037.	1.7	56
47	X-ray propagation microscopy of biological cells using waveguides as a quasipoint source. <i>Physical Review A</i> , 2011, 83, .	1.0	56
48	Phase contrast tomography of the mouse cochlea at microfocus x-ray sources. <i>Applied Physics Letters</i> , 2013, 103, 083703.	1.5	55
49	Structure of two-component lipid membranes on solid support: An x-ray reflectivity study. <i>Physical Review E</i> , 2006, 74, 051911.	0.8	54
50	Short Range Order of Hydrocarbon Chains in Fluid Phospholipid Bilayers Studied by X-Ray Diffraction from Highly Oriented Membranes. <i>Biophysical Journal</i> , 2003, 85, 1576-1584.	0.2	53
51	Structure of Magainin and Alamethicin in Model Membranes Studied by X-Ray Reflectivity. <i>Biophysical Journal</i> , 2006, 91, 3285-3300.	0.2	53
52	Waveguide-Based Off-Axis Holography with Hard X Rays. <i>Physical Review Letters</i> , 2006, 97, 254801.	2.9	52
53	Non-specular X-ray scattering from thin films and multilayers with small-angle scattering equipment. <i>Journal Physics D: Applied Physics</i> , 1995, 28, A236-A240.	1.3	51
54	Effect of cholesterol on the lateral nanoscale dynamics of fluid membranes. <i>European Biophysics Journal</i> , 2012, 41, 901-913.	1.2	51

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55	Thermal Fluctuations and Positional Correlations in Oriented Lipid Membranes. <i>Physical Review Letters</i> , 2003, 90, 178101.	2.9	50
56	A phase-retrieval toolbox for X-ray holography and tomography. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 852-859.	1.0	49
57	Specular and diffuse scattering of highly aligned phospholipid membranes. <i>Physical Review E</i> , 1999, 60, 7285-7289.	0.8	47
58	Myelinated mouse nerves studied by X-ray phase contrast zoom tomography. <i>Journal of Structural Biology</i> , 2015, 192, 561-568.	1.3	47
59	Nonspecular neutron scattering from highly aligned phospholipid membranes. <i>Europhysics Letters</i> , 1999, 46, 486-492.	0.7	43
60	Structure Parameters of Synaptic Vesicles Quantified by Small-Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2010, 98, 1200-1208.	0.2	43
61	X-ray nano-diffraction on cytoskeletal networks. <i>New Journal of Physics</i> , 2012, 14, 085013.	1.2	43
62	Regularized Newton methods for x-ray phase contrast and general imaging problems. <i>Optics Express</i> , 2016, 24, 6490.	1.7	43
63	Bending and Twisting Lattice Tilt in Strained Core-Shell Nanowires Revealed by Nanofocused X-ray Diffraction. <i>Nano Letters</i> , 2017, 17, 4143-4150.	4.5	43
64	Four dimensional material movies: High speed phase-contrast tomography by backprojection along dynamically curved paths. <i>Scientific Reports</i> , 2017, 7, 6487.	1.6	43
65	Propagation-based phase-contrast tomography for high-resolution lung imaging with laboratory sources. <i>AIP Advances</i> , 2016, 6, 035007.	0.6	42
66	The Göttingen Holography Endstation of Beamline P10 at PETRA III-DESY. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	41
67	X-ray computed tomography and its potential in ecological research: A review of studies and optimization of specimen preparation. <i>Ecology and Evolution</i> , 2018, 8, 7717-7732.	0.8	40
68	Contrast enhancement for visualizing neuronal cytoarchitecture by propagation-based x-ray phase-contrast tomography. <i>NeuroImage</i> , 2019, 199, 70-80.	2.1	40
69	Phase Behavior and Interactions of the Membrane-Protein Bacteriorhodopsin. <i>Physical Review Letters</i> , 1999, 82, 3184-3187.	2.9	39
70	Semi-transparent central stop in high-resolution X-ray ptychography using Kirkpatrick-Baez focusing. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 490-497.	0.3	39
71	Fabrication of laser deposited high-quality multilayer zone plates for hard X-ray nanofocusing. <i>Applied Surface Science</i> , 2014, 307, 638-644.	3.1	39
72	Vesicle Adhesion and Fusion Studied by Small-Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2018, 114, 1908-1920.	0.2	39

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73	Membrane fusion intermediates and the effect of cholesterol: An in-house X-ray scattering study. <i>European Physical Journal E</i> , 2009, 30, 205-14.	0.7	38
74	Three-dimensional phase retrieval in propagation-based phase-contrast imaging. <i>Physical Review A</i> , 2014, 89, .	1.0	38
75	Temperature dependent structure of spider silk by X-ray diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 63-69.	1.1	37
76	3D virtual pathohistology of lung tissue from Covid-19 patients based on phase contrast X-ray tomography. <i>ELife</i> , 2020, 9, .	2.8	37
77	Grazing incidence X-ray diffraction of highly aligned phospholipid membranes containing the antimicrobial peptide magainin 2. <i>European Biophysics Journal</i> , 2000, 28, 683-688.	1.2	36
78	Magainin 2 in phospholipid bilayers: peptide orientation and lipid chain ordering studied by X-ray diffraction. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1562, 37-44.	1.4	36
79	Lipid-peptide interaction in oriented bilayers probed by interface-sensitive scattering methods. <i>Current Opinion in Structural Biology</i> , 2003, 13, 467-478.	2.6	36
80	Reconstruction of wave front and object for inline holography from a set of detection planes. <i>Optics Express</i> , 2014, 22, 11552.	1.7	36
81	Sub-15 nm beam confinement by two crossed x-ray waveguides. <i>Optics Express</i> , 2010, 18, 13492.	1.7	35
82	Partially coherent nano-focused x-ray radiation characterized by Talbot interferometry. <i>Optics Express</i> , 2011, 19, 9656.	1.7	35
83	Coherence filtering of x-ray waveguides: analytical and numerical approach. <i>New Journal of Physics</i> , 2011, 13, 103026.	1.2	35
84	X-ray coherence and ultra small angle resolution at grazing incidence and exit angles. <i>European Physical Journal B</i> , 1994, 96, 227-230.	0.6	34
85	Thermal Denaturing of Bacteriorhodopsin by X-Ray Scattering from Oriented Purple Membranes. <i>Biophysical Journal</i> , 2000, 78, 3208-3217.	0.2	34
86	Thermal Fluctuations of Oriented Lipid Membranes by Nonspecular Neutron Reflectometry. <i>Langmuir</i> , 2003, 19, 7703-7711.	1.6	34
87	Spider silk softening by water uptake: an AFM study. <i>European Biophysics Journal</i> , 2008, 37, 197-204.	1.2	34
88	Structure and composition of myelinated axons: A multimodal synchrotron spectro-microscopy study. <i>Journal of Structural Biology</i> , 2011, 173, 202-212.	1.3	34
89	Low-dose three-dimensional hard x-ray imaging of bacterial cells. <i>Optical Nanoscopy</i> , 2012, 1, 10.	4.0	34
90	Axonal Ensheathment in the Nervous System of Lamprey: Implications for the Evolution of Myelinating Glia. <i>Journal of Neuroscience</i> , 2018, 38, 6586-6596.	1.7	34

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91	Title is missing!. European Physical Journal E, 2002, 7, 105-116.	0.7	34
92	Solid-supported lipid multilayers: Structure factor and fluctuations. European Physical Journal E, 2003, 12, 283-290.	0.7	33
93	SARS Coronavirus E Protein in Phospholipid Bilayers: An X-Ray Study. Biophysical Journal, 2006, 90, 2038-2050.	0.2	33
94	Correlative microscopy approach for biology using X-ray holography, X-ray scanning diffraction and STED microscopy. Nature Communications, 2018, 9, 3641.	5.8	33
95	Interaction of Alamethicin Pores in DMPC Bilayers. Biophysical Journal, 2007, 92, 3978-3987.	0.2	32
96	High-dynamic-range coherent diffractive imaging: ptychography using the mixed-mode pixel array detector. Journal of Synchrotron Radiation, 2014, 21, 1167-1174.	1.0	32
97	Structure and fluctuations of highly oriented phospholipid membranes. Current Opinion in Colloid and Interface Science, 2000, 5, 19-26.	3.4	31
98	Layer-by-layer self-assembly of supramolecular and biomolecular films. Reviews in Molecular Biotechnology, 2002, 90, 55-70.	2.9	31
99	High-Transmission Planar X-Ray Waveguides. Physical Review Letters, 2008, 100, 184801.	2.9	31
100	Correlative x-ray phase-contrast tomography and histology of human brain tissue affected by Alzheimer's disease. NeuroImage, 2020, 210, 116523.	2.1	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.	1.0	31
102	Splitting of a domain wall near the diamagnetic phase transition. Physical Review B, 1991, 43, 3775-3777.	1.1	30
103	Investigation of Structure and Growth of Self-Assembled Polyelectrolyte Layers by X-ray and Neutron Scattering under Grazing Angles. Journal of Colloid and Interface Science, 2000, 223, 74-82.	5.0	30
104	Holographic and diffractive x-ray imaging using waveguides as quasi-point sources. New Journal of Physics, 2010, 12, 035008.	1.2	30
105	Near-field ptychography using lateral and longitudinal shifts. New Journal of Physics, 2015, 17, 073033.	1.2	30
106	Scanning X-Ray Nanodiffraction on Dictyostelium discoideum. Biophysical Journal, 2014, 107, 2662-2673.	0.2	29
107	Finite-difference field calculations for one-dimensionally confined X-ray waveguides. Physica B: Condensed Matter, 2005, 357, 57-60.	1.3	28
108	Biomimetic membranes of lipid-peptide model systems prepared on solid support. Journal of Physics Condensed Matter, 2004, 16, S2439-S2453.	0.7	27

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109	Stimulated emission depletion microscopy on lithographic nanostructures. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S695-S705.	0.6	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. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 143-155.	1.0	27
111	3D virtual histology of human pancreatic tissue by multiscale phase-contrast X-ray tomography. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1707-1719.	1.0	27
112	Reflection of waveguided X-rays in two-dimensional nanostructures. <i>Journal of Applied Crystallography</i> , 2002, 35, 430-433.	1.9	25
113	Highly Oriented, Charged Multilamellar Membranes Osmotically Stressed by a Polyelectrolyte of the Same Sign. <i>Langmuir</i> , 2003, 19, 8235-8244.	1.6	25
114	Nanosecond molecular relaxations in lipid bilayers studied by high energy-resolution neutron scattering and in situ diffraction. <i>Physical Review E</i> , 2007, 75, 011907.	0.8	25
115	Coherent diffractive imaging beyond the projection approximation: waveguiding at extreme ultraviolet wavelengths. <i>Optics Express</i> , 2015, 23, 19911.	1.7	25
116	Anisotropic x-ray scattering and orientation fields in cardiac tissue cells. <i>New Journal of Physics</i> , 2017, 19, 013012.	1.2	25
117	Three-dimensional single-cell imaging with X-ray waveguides in the holographic regime. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 282-292.	0.0	25
118	Grain rotation and lattice deformation during photoinduced chemical reactions revealed by in situ X-ray nanodiffraction. <i>Nature Materials</i> , 2015, 14, 691-695.	13.3	24
119	How many photons are needed to reconstruct random objects in coherent X-ray diffractive imaging?. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 19-29.	0.0	24
120	Finite difference methods for stationary and time-dependent X-ray propagation. <i>Optics Express</i> , 2017, 25, 32090.	1.7	24
121	Monolayer of metallo-supramolecular complexes. <i>Chemical Communications</i> , 1998, , 2731-2732.	2.2	23
122	Phase-contrast x-ray imaging and tomography of the nematode <i>Caenorhabditis elegans</i> . <i>Physics in Medicine and Biology</i> , 2012, 57, 5309-5323.	1.6	23
123	Fiber orientation in a whole mouse heart reconstructed by laboratory phase-contrast micro-CT. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	23
124	Propagation of X-rays in ultra-narrow slits. <i>Optics Communications</i> , 2006, 265, 140-146.	1.0	22
125	Structure and interaction potentials in solid-supported lipid membranes studied by X-ray reflectivity at varied osmotic pressure. <i>European Physical Journal E</i> , 2006, 20, 221-230.	0.7	22
126	Interbilayer repulsion forces between tension-free lipid bilayers from simulation. <i>Soft Matter</i> , 2013, 9, 10705.	1.2	22



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127	High aspect ratio x-ray waveguide channels fabricated by e-beam lithography and wafer bonding. <i>Journal of Applied Physics</i> , 2014, 115, 214305.	1.1	22
128	X-Ray Optics on a Chip: Guiding X Rays in Curved Channels. <i>Physical Review Letters</i> , 2015, 115, 203902.	2.9	22
129	X-Ray Micro- and Nanodiffraction Imaging on Human Mesenchymal Stem Cells and Differentiated Cells. <i>Biophysical Journal</i> , 2016, 110, 680-690.	0.2	22
130	3D X-ray Nanotomography Reveals Different Carbon Deposition Mechanisms in a Single Catalyst Particle. <i>ChemCatChem</i> , 2021, 13, 2494-2507.	1.8	22
131	Pump-probe X-ray holographic imaging of laser-induced cavitation bubbles with femtosecond FEL pulses. <i>Nature Communications</i> , 2021, 12, 3468.	5.8	22
132	Stacked 2D Crystalline Sheets of the Membrane-Protein Bacteriorhodopsin: A Specular and Diffuse Reflectivity Study. <i>Physical Review Letters</i> , 1998, 81, 2494-2497.	2.9	21
133	Biomolecular and amphiphilic films probed by surface sensitive X-ray and neutron scattering. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 960-73.	1.9	21
134	Finite-difference field calculations for two-dimensionally confined x-ray waveguides. <i>Applied Optics</i> , 2006, 45, 4603.	2.1	21
135	Transmission X-ray microscopy of spider dragline silk. <i>International Journal of Biological Macromolecules</i> , 2007, 40, 87-95.	3.6	21
136	A combined Kirkpatrick-Baez mirror and multilayer lens for sub-10 nm x-ray focusing. <i>AIP Advances</i> , 2012, 2, .	0.6	21
137	Measuring Ca <sup>2+</sup> -Induced Structural Changes in Lipid Monolayers: Implications for Synaptic Vesicle Exocytosis. <i>Biophysical Journal</i> , 2012, 102, 1394-1402.	0.2	21
138	Validity of the empty-beam correction in near-field imaging. <i>Physical Review A</i> , 2015, 91, .	1.0	21
139	Propagation-based phase-contrast x-ray tomography of cochlea using a compact synchrotron source. <i>Scientific Reports</i> , 2018, 8, 4922.	1.6	21
140	Phase retrieval for near-field X-ray imaging beyond linearisation or compact support. <i>Applied Physics Letters</i> , 2018, 113, 041109.	1.5	21
141	Multiscale photonic imaging of the native and implanted cochlea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
142	3D virtual histopathology of cardiac tissue from Covid-19 patients based on phase-contrast X-ray tomography. <i>ELife</i> , 2021, 10, .	2.8	21
143	Counterion distribution near a monolayer of variable charge density. <i>Europhysics Letters</i> , 2007, 79, 18003.	0.7	20
144	Interactions across liquid thin films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 303, 97-109.	2.3	20

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145	Effect of PIP <sub>2</sub> on Bilayer Structure and Phase Behavior of DOPC: An X-ray Scattering Study. ChemPhysChem, 2011, 12, 2633-2640.	1.0	20
146	Phase retrieval for object and probe using a series of defocus near-field images. Optics Express, 2013, 21, 23345.	1.7	20
147	Multilayer Fresnel zone plates for high energy radiation resolve 21 nm features at 12 keV. Optics Express, 2014, 22, 18440.	1.7	20
148	Hard X-ray Detection Using a Single 100 nm Diameter Nanowire. Nano Letters, 2014, 14, 7071-7076.	4.5	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.	1.5	20
150	Scanning X-ray diffraction on cardiac tissue: automatized data analysis and processing. Journal of Synchrotron Radiation, 2017, 24, 1163-1172.	1.0	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.	1.3	19
152	X-ray beam compression by tapered waveguides. Applied Physics Letters, 2015, 106, .	1.5	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, .	3.3	19
154	X-ray waveguides and thin macromolecular films. Physica B: Condensed Matter, 2003, 336, 181-192.	1.3	18
155	Exploring the collective dynamics of lipid membranes with inelastic neutron scattering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1191-1196.	0.9	18
156	X-Ray propagation imaging of a lipid bilayer in solution. Soft Matter, 2012, 8, 4595.	1.2	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 Crystallography, 2017, 50, 612-620.	1.9	18
159	The fluence resolution relationship in holographic and coherent diffractive imaging. Journal of Applied Crystallography, 2017, 50, 531-538.	1.9	18
160	Self-assembled thin films of organo-metal complexes. Thin Solid Films, 1999, 354, 208-214.	0.8	17
161	Waveguide-enhanced scattering from thin biomolecular films. Journal of Applied Crystallography, 2002, 35, 163-167.	1.9	17
162	Front-coupling of a prefocused x-ray beam into a monomodal planar waveguide. Applied Physics Letters, 2004, 85, 1907-1909.	1.5	17

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163	Electric field unbinding of solid-supported lipid multilayers. <i>European Physical Journal E</i> , 2005, 18, 273-278.	0.7	17
164	X-ray Structure Analysis of Free-Standing Lipid Membranes Facilitated by Micromachined Apertures. <i>Langmuir</i> , 2008, 24, 4952-4958.	1.6	17
165	Iterative reconstruction of a refractive-index profile from x-ray or neutron reflectivity measurements. <i>Physical Review E</i> , 2008, 77, 051604.	0.8	16
166	<i>In vitro</i> study of interaction of synaptic vesicles with lipid membranes. <i>New Journal of Physics</i> , 2010, 12, 105004.	1.2	16
167	Collective Lipid Bilayer Dynamics Excited by Surface Acoustic Waves. <i>Physical Review Letters</i> , 2014, 113, 118102.	2.9	16
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