

Tim Salditt

List of Publications by Year in descending order

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Version: 2024-02-01

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	Coherent Diffractive Imaging with Diffractive Optics. <i>Physical Review Letters</i> , 2022, 128, .	2.9	4
2	3d phase-contrast nanotomography of unstained human skin biopsies may identify morphological differences in the dermis and epidermis between subjects. <i>Skin Research and Technology</i> , 2021, 27, 316-323.	0.8	3
3	Single-pulse phase-contrast imaging at free-electron lasers in the hard X-ray regime. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 52-63.	1.0	31
4	Observation of electron-induced characteristic x-ray and bremsstrahlung radiation from a waveguide cavity. <i>Science Advances</i> , 2021, 7, .	4.7	9
5	A stalk fluid forming above the transition from the lamellar to the rhombohedral phase of lipid membranes. <i>European Biophysics Journal</i> , 2021, 50, 265-278.	1.2	5
6	The effect of polydispersity, shape fluctuations and curvature on small unilamellar vesicle small-angle X-ray scattering curves. <i>Journal of Applied Crystallography</i> , 2021, 54, 557-568.	1.9	7
7	3D X-ray Nanotomography Reveals Different Carbon Deposition Mechanisms in a Single Catalyst Particle. <i>ChemCatChem</i> , 2021, 13, 2494-2507.	1.8	22
8	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
9	Nanosecond timing and synchronization scheme for holographic pump-probe studies at the MID instrument at European XFEL. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 987-994.	1.0	6
10	In-line holography with hard x-rays at sub-15-nm resolution. <i>Optica</i> , 2021, 8, 818.	4.8	8
11	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
12	On incoherent diffractive imaging. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, 480-496.	0.0	3
13	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
14	Combined scanning small-angle X-ray scattering and holography probes multiple length scales in cell nuclei. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 518-529.	1.0	1
15	Three-dimensional virtual histology of the cerebral cortex based on phase-contrast X-ray tomography. <i>Biomedical Optics Express</i> , 2021, 12, 7582.	1.5	10
16	Three-dimensional virtual histology of the human hippocampus based on phase-contrast computed tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
17	Finite-difference propagation for the simulation of x-ray multilayer optics. <i>Optics Express</i> , 2021, 29, 41932.	1.7	3
18	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

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19	X-Ray Structural Analysis of Single Adult Cardiomyocytes: Tomographic Imaging and Microdiffraction. <i>Biophysical Journal</i> , 2020, 119, 1309-1323.	0.2	5
20	Nanotomographic evaluation of precipitate structure evolution in a Mg-Zn-Zr alloy during plastic deformation. <i>Scientific Reports</i> , 2020, 10, 16101.	1.6	4
21	3D analysis of the myenteric plexus of the human bowel by X-ray phase-contrast tomography – a future method?. <i>Scandinavian Journal of Gastroenterology</i> , 2020, 55, 1261-1267.	0.6	5
22	X-ray diffraction and second harmonic imaging reveal new insights into structural alterations caused by pressure-overload in murine hearts. <i>Scientific Reports</i> , 2020, 10, 19317.	1.6	10
23	Correlative x-ray phase-contrast tomography and histology of human brain tissue affected by Alzheimer’s disease. <i>NeuroImage</i> , 2020, 210, 116523.	2.1	31
24	Vesicle adhesion in the electrostatic strong-coupling regime studied by time-resolved small-angle X-ray scattering. <i>Soft Matter</i> , 2020, 16, 4142-4154.	1.2	11
25	X-ray Focusing and Optics. <i>Topics in Applied Physics</i> , 2020, , 71-124.	0.4	4
26	A phase-retrieval toolbox for X-ray holography and tomography. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 852-859.	1.0	49
27	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
28	Phase-contrast x-ray tomography of neuronal tissue at laboratory sources with submicron resolution. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	15
29	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
30	Multi-scale X-ray phase-contrast tomography of murine heart tissue. <i>Biomedical Optics Express</i> , 2020, 11, 2633.	1.5	12
31	Elemental quantification and analysis of structural abnormalities in neurons from Parkinson’s-diseased brains by X-ray fluorescence microscopy and diffraction. <i>Biomedical Optics Express</i> , 2020, 11, 3423.	1.5	8
32	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
33	Nanoscale x-ray holotomography of human brain tissue with phase retrieval based on multienergy recordings. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	6
34	Scanning Small-Angle X-ray Scattering and Coherent X-ray Imaging of Cells. <i>Topics in Applied Physics</i> , 2020, , 405-433.	0.4	1
35	Coherent X-ray Imaging. <i>Topics in Applied Physics</i> , 2020, , 35-70.	0.4	0
36	Holographic Imaging and Tomography of Biological Cells and Tissues. <i>Topics in Applied Physics</i> , 2020, , 339-376.	0.4	1

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37	Spectral μ CT with an energy resolving and interpolating pixel detector. <i>Optics Express</i> , 2020, 28, 9842.	1.7	2
38	Iterative micro-tomography of biopsy samples from truncated projections with quantitative gray values. <i>Physics in Medicine and Biology</i> , 2020, 65, 235034.	1.6	1
39	X-ray diffraction imaging of cardiac cells and tissue. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 144, 151-165.	1.4	12
40	Time-resolved x-ray phase-contrast tomography of sedimenting micro-spheres. <i>New Journal of Physics</i> , 2019, 21, 043017.	1.2	2
41	A beamline-compatible STED microscope for combined visible-light and X-ray studies of biological matter. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1144-1151.	1.0	1
42	Radiation damage studies in cardiac muscle cells and tissue using microfocused X-ray beams: experiment and simulation. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 980-990.	1.0	11
43	Contrast enhancement for visualizing neuronal cytoarchitecture by propagation-based x-ray phase-contrast tomography. <i>NeuroImage</i> , 2019, 199, 70-80.	2.1	40
44	Formation and development of the male copulatory organ in the spider <i>Parasteatoda tepidariorum</i> involves a metamorphosis-like process. <i>Scientific Reports</i> , 2019, 9, 6945.	1.6	16
45	STXM analysis: Preparing to go live @ 750 Hz. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
46	2. X-ray structure analysis of lipid membrane systems: solid-supported bilayers, bilayer stacks, and vesicles. , 2019, , 43-86.		2
47	Focus characterization of the NanoMAX Kirkpatrick-Baez mirror system. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1173-1180.	1.0	12
48	Multiscale x-ray phase-contrast tomography in a mouse model of transient focal cerebral ischemia. <i>Biomedical Optics Express</i> , 2019, 10, 92.	1.5	12
49	Evaluation of different heavy-metal stains and embedding media for phase contrast tomography of neuronal tissue. , 2019, , .		1
50	Fiber orientation in a whole mouse heart reconstructed by laboratory phase-contrast micro-CT. , 2019, , .		1
51	Phase-contrast x-ray tomography of neuronal tissue at laboratory sources with submicron resolution. , 2019, , .		2
52	Nanoscale x-ray holo-tomography of human brain tissue with phase retrieval based on multiphoton energy recordings. , 2019, , .		2
53	Vesicle Adhesion and Fusion Studied by Small-Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2018, 114, 1908-1920.	0.2	39
54	Propagation-based phase-contrast x-ray tomography of cochlea using a compact synchrotron source. <i>Scientific Reports</i> , 2018, 8, 4922.	1.6	21

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55	Scanning Small-Angle-X-Ray Scattering for Imaging Biological Cells. <i>Microscopy and Microanalysis</i> , 2018, 24, 336-339.	0.2	1
56	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
57	Phase retrieval for near-field X-ray imaging beyond linearisation or compact support. <i>Applied Physics Letters</i> , 2018, 113, 041109.	1.5	21
58	Correlative Microscopy of Biological Cells and Tissues by Scanning X-ray Diffraction, Holography, Tomography and Super-Resolution Optical Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 64-67.	0.2	3
59	3d Virtual Histology of Human Cerebellum by Propagation-Based X-Ray Phase-Contrast Tomography. <i>Microscopy and Microanalysis</i> , 2018, 24, 24-25.	0.2	0
60	Correlative microscopy approach for biology using X-ray holography, X-ray scanning diffraction and STED microscopy. <i>Nature Communications</i> , 2018, 9, 3641.	5.8	33
61	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	1.3	99
62	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
63	Coherence-resolution relationship in holographic and coherent diffractive imaging. <i>Optics Express</i> , 2018, 26, 242.	1.7	12
64	Solving the Phase Problem in X-Ray Near-Field Holography Beyond the Assumption of Weak Objects. <i>Microscopy and Microanalysis</i> , 2018, 24, 40-41.	0.2	2
65	The optical stretcher as a tool for single-particle X-ray imaging and diffraction. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1196-1205.	1.0	5
66	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
67	Reconstitution of SNARE proteins into solid-supported lipid bilayer stacks and X-ray structure analysis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 566-578.	1.4	7
68	Three-dimensional mouse brain cytoarchitecture revealed by laboratory-based x-ray phase-contrast tomography. <i>Scientific Reports</i> , 2017, 7, 42847.	1.6	67
69	Combined scanning X-ray diffraction and holographic imaging of cardiomyocytes. <i>Journal of Applied Crystallography</i> , 2017, 50, 612-620.	1.9	18
70	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
71	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
72	6. Phase contrast radiography. , 2017, , 244-320.		0

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73	Four dimensional material movies: High speed phase-contrast tomography by backprojection along dynamically curved paths. Scientific Reports, 2017, 7, 6487.	1.6	43
74	X-ray waveguide arrays: tailored near fields by multi-beam interference. X-Ray Spectrometry, 2017, 46, 107-115.	0.9	5
75	Tomography with extended sources: Theory, error estimates, and a reconstruction algorithm. Physical Review A, 2017, 96, .	1.0	1
76	Anisotropic x-ray scattering and orientation fields in cardiac tissue cells. New Journal of Physics, 2017, 19, 013012.	1.2	25
77	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
78	Reconstructing mode mixtures in the optical near-field. Optics Express, 2017, 25, 13973.	1.7	5
79	Goos-Hänchen effect observed for focused x-ray beams under resonant mode excitation. Optics Express, 2017, 25, 17431.	1.7	2
80	Divide and update: towards single-shot object and probe retrieval for near-field holography. Optics Express, 2017, 25, 20953.	1.7	7
81	Finite difference methods for stationary and time-dependent X-ray propagation. Optics Express, 2017, 25, 32090.	1.7	24
82	Scanning X-ray diffraction on cardiac tissue: automatized data analysis and processing. Journal of Synchrotron Radiation, 2017, 24, 1163-1172.	1.0	20
83	Phase-contrast tomography of sciatic nerves: image quality and experimental parameters. Journal of Physics: Conference Series, 2017, 849, 012001.	0.3	2
84	The fluence-resolution relationship in holographic and coherent diffractive imaging. Journal of Applied Crystallography, 2017, 50, 531-538.	1.9	18
85	Probe reconstruction for holographic X-ray imaging. Journal of Synchrotron Radiation, 2017, 24, 498-505.	1.0	16
86	Three-dimensional single-cell imaging with X-ray waveguides in the holographic regime. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 282-292.	0.0	25
87	Nanoscale holographic tomography of heart tissue with x-ray waveguide optics. , 2017, , .		4
88	Reconstruction of the near-field distribution in an X-ray waveguide array. Journal of Applied Crystallography, 2017, 50, 701-711.	1.9	2
89	Simulations and experiments on vibration damping for zoom-holography and nano-scanning at the GINIX. , 2017, , .		0
90	Heavy-Atom Labeled Transmembrane Peptides: Synthesis, CD Spectroscopy, and X-ray Diffraction Studies in Model Lipid Multilayer. ChemPhysChem, 2016, 17, 2525-2534.	1.0	8

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91	Phase-contrast tomography of neuronal tissues: from laboratory- to high resolution synchrotron CT. Proceedings of SPIE, 2016, , .	0.8	15
92	Propagation-based phase-contrast tomography for high-resolution lung imaging with laboratory sources. AIP Advances, 2016, 6, 035007.	0.6	42
93	Advances in fabrication of X-ray waveguides. Microelectronic Engineering, 2016, 164, 135-138.	1.1	12
94	Laboratory-based x-ray phase-contrast tomography enables 3D virtual histology. Proceedings of SPIE, 2016, , .	0.8	18
95	Using sparsity information for iterative phase retrieval in x-ray propagation imaging. Optics Express, 2016, 24, 8332.	1.7	14
96	Miniaturized beamsplitters realized by X-ray waveguides. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 515-522.	0.0	5
97	Combined in-situ imaging of structural organization and elemental composition of substantia nigra neurons in the elderly. Talanta, 2016, 161, 368-376.	2.9	11
98	Regularized Newton methods for x-ray phase contrast and general imaging problems. Optics Express, 2016, 24, 6490.	1.7	43
99	X-ray structural investigations of fusion intermediates: Lipid model systems and beyond. Seminars in Cell and Developmental Biology, 2016, 60, 65-77.	2.3	12
100	New X-Ray Tomography Method Based on the 3D Radon Transform Compatible with Anisotropic Sources. Physical Review Letters, 2016, 116, 088101.	2.9	7
101	Three-dimensional propagation in near-field tomographic X-ray phase retrieval. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 215-221.	0.0	12
102	In Operando X-ray Nanodiffraction Reveals Electrically Induced Bending and Lattice Contraction in a Single Nanowire Device. Advanced Materials, 2016, 28, 1788-1792.	11.1	14
103	X-Ray Micro- and Nanodiffraction Imaging on Human Mesenchymal Stem Cells and Differentiated Cells. Biophysical Journal, 2016, 110, 680-690.	0.2	22
104	Actin bundles cross-linked with α -actinin studied by nanobeam X-ray diffraction. European Biophysics Journal, 2016, 45, 383-392.	1.2	2
105	Holographic imaging with a hard x-ray nanoprobe: ptychographic versus conventional phase retrieval. Optics Letters, 2016, 41, 5519.	1.7	11
106	10.1063/1.4943898.1., 2016, , .		0
107	X-Ray Optics on a Chip: Guiding X Rays in Curved Channels. Physical Review Letters, 2015, 115, 203902.	2.9	22
108	Simultaneous high-resolution scanning Bragg contrast and ptychographic imaging of a single solar cell nanowire. Journal of Applied Crystallography, 2015, 48, 1818-1826.	1.9	4

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109	Phase-contrast zoom tomography reveals precise locations of macrophages in mouse lungs. <i>Scientific Reports</i> , 2015, 5, 9973.	1.6	63
110	Myelinated mouse nerves studied by X-ray phase contrast zoom tomography. <i>Journal of Structural Biology</i> , 2015, 192, 561-568.	1.3	47
111	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
112	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
113	Validity of the empty-beam correction in near-field imaging. <i>Physical Review A</i> , 2015, 91, .	1.0	21
114	Towards multi-order hard X-ray imaging with multilayer zone plates. <i>Journal of Applied Crystallography</i> , 2015, 48, 116-124.	1.9	10
115	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
116	Quantitative X-ray phase contrast waveguide imaging of bacterial endospores. <i>Journal of Applied Crystallography</i> , 2015, 48, 464-476.	1.9	12
117	X-Ray Holographic Imaging of Hydrated Biological Cells in Solution. <i>Physical Review Letters</i> , 2015, 114, 048103.	2.9	103
118	Scanning Hard X-ray Microscopy Imaging Modalities for Geobiological Samples. <i>Geomicrobiology Journal</i> , 2015, 32, 380-383.	1.0	4
119	Progress on multi-order hard x-ray imaging with multilayer zone plates. , 2015, , .		0
120	Coherent diffractive imaging beyond the projection approximation: waveguiding at extreme ultraviolet wavelengths. <i>Optics Express</i> , 2015, 23, 19911.	1.7	25
121	X-ray beam compression by tapered waveguides. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	19
122	Near-field ptychography using lateral and longitudinal shifts. <i>New Journal of Physics</i> , 2015, 17, 073033.	1.2	30
123	Stalk formation as a function of lipid composition studied by X-ray reflectivity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 41-50.	1.4	14
124	Nano-Scale Morphology of Melanosomes Revealed by Small-Angle X-Ray Scattering. <i>PLoS ONE</i> , 2014, 9, e90884.	1.1	11
125	Scanning X-Ray Nanodiffraction on <i>Dictyostelium discoideum</i> . <i>Biophysical Journal</i> , 2014, 107, 2662-2673.	0.2	29
126	X-Ray Microscopy for Neuroscience: Novel Opportunities by Coherent Optics. <i>Neuromethods</i> , 2014, , 257-290.	0.2	6

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127	X-ray phase contrast tomography from whole organ down to single cells. Proceedings of SPIE, 2014, , .	0.8	6
128	Reconstruction of wave front and object for inline holography from a set of detection planes. Optics Express, 2014, 22, 11552.	1.7	36
129	Multilayer Fresnel zone plates for high energy radiation resolve 21 nm features at 12 keV. Optics Express, 2014, 22, 18440.	1.7	20
130	Three-dimensional phase retrieval in propagation-based phase-contrast imaging. Physical Review A, 2014, 89, .	1.0	38
131	Collective Lipid Bilayer Dynamics Excited by Surface Acoustic Waves. Physical Review Letters, 2014, 113, 118102.	2.9	16
132	Hard X-ray Detection Using a Single 100 nm Diameter Nanowire. Nano Letters, 2014, 14, 7071-7076.	4.5	20
133	High aspect ratio x-ray waveguide channels fabricated by e-beam lithography and wafer bonding. Journal of Applied Physics, 2014, 115, 214305.	1.1	22
134	High-flux ptychographic imaging using the new 55-µm-pixel detector 'Lambda' based on the Medipix3 readout chip. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 552-562.	0.0	16
135	Membrane Fusion by X-Rays: From Model Membranes to Organelles. Biophysical Journal, 2014, 106, 3a.	0.2	0
136	Fabrication of laser deposited high-quality multilayer zone plates for hard X-ray nanofocusing. Applied Surface Science, 2014, 307, 638-644.	3.1	39
137	Pulse-resolved multi-photon X-ray detection at 31-MHz based on a quadrant avalanche photodiode. Journal of Synchrotron Radiation, 2014, 21, 708-715.	1.0	3
138	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
139	Time-resolved coherent X-ray diffraction imaging of surface acoustic waves. Journal of Applied Crystallography, 2014, 47, 1596-1605.	1.9	12
140	Optogenetic stimulation of the auditory pathway. Journal of Clinical Investigation, 2014, 124, 1114-1129.	3.9	147
141	Structure and Volta Potential of Lipid Multilayers: Effect of X-ray Irradiation. Langmuir, 2013, 29, 815-824.	1.6	5
142	Interbilayer repulsion forces between tension-free lipid bilayers from simulation. Soft Matter, 2013, 9, 10705.	1.2	22
143	Recent advances in use of atomic layer deposition and focused ion beams for fabrication of Fresnel zone plates for hard x-rays. , 2013, , .		4
144	Drift correction in ptychographic diffractive imaging. Ultramicroscopy, 2013, 126, 44-47.	0.8	71

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145	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
146	Single pulse coherence measurements in the water window at the free-electron laser FLASH. <i>Optics Express</i> , 2013, 21, 13005.	1.7	13
147	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
148	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
149	Versatility of a hard X-ray Kirkpatrick-Baez focus characterized by ptychography. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 490-497.	1.0	15
150	Phase retrieval for object and probe using a series of defocus near-field images. <i>Optics Express</i> , 2013, 21, 23345.	1.7	20
151	Nonequilibrium Collective Dynamics in Photoexcited Lipid Multilayers by Time Resolved Diffuse X-Ray Scattering. <i>Physical Review Letters</i> , 2013, 111, 268101.	2.9	10
152	Phase contrast tomography of the mouse cochlea at microfocus x-ray sources. <i>Applied Physics Letters</i> , 2013, 103, 083703.	1.5	55
153	Two-dimensional sub-5-nm hard x-ray focusing with MZP. , 2013, , .		5
154	Standing surface acoustic waves in LiNbO3 studied by time resolved X-ray diffraction at Petra III. <i>AIP Advances</i> , 2013, 3, 072127.	0.6	12
155	X-ray nano-diffraction on cytoskeletal networks. <i>New Journal of Physics</i> , 2012, 14, 085013.	1.2	43
156	Hard X-ray imaging of bacterial cells: nano-diffraction and ptychographic reconstruction. <i>Optics Express</i> , 2012, 20, 19232.	1.7	107
157	A combined Kirkpatrick-Baez mirror and multilayer lens for sub-10 nm x-ray focusing. <i>AIP Advances</i> , 2012, 2, .	0.6	21
158	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
159	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
160	Measuring Ca ²⁺ -Induced Structural Changes in Lipid Monolayers: Implications for Synaptic Vesicle Exocytosis. <i>Biophysical Journal</i> , 2012, 102, 1394-1402.	0.2	21
161	Acyl-Chain Correlation in Membrane Fusion Intermediates: X-Ray Diffraction from the Rhombohedral Lipid Phase. <i>Biophysical Journal</i> , 2012, 102, 2121-2129.	0.2	8
162	Low-dose three-dimensional hard x-ray imaging of bacterial cells. <i>Optical Nanoscopy</i> , 2012, 1, 10.	4.0	34

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163	Effect of cholesterol on the lateral nanoscale dynamics of fluid membranes. European Biophysics Journal, 2012, 41, 901-913.	1.2	51
164	Röntgenmikroskopie ohne Linsen: vom Objekt zum Beugungsbild und zur Rekonstruktion. Akademie Der Wissenschaften Zu Goettingen Jahrbuch, 2012, 2011, 299-319.	0.0	0
165	A two-dimensional waveguide beam for X-ray nanodiffraction. Journal of Applied Crystallography, 2012, 45, 85-92.	1.9	66
166	X-Ray propagation imaging of a lipid bilayer in solution. Soft Matter, 2012, 8, 4595.	1.2	18
167	Sub-10-nm beam confinement by X-ray waveguides: design, fabrication and characterization of optical properties. Journal of Synchrotron Radiation, 2012, 19, 227-236.	1.0	61
168	Chemical Contrast in Soft X-Ray Ptychography. Physical Review Letters, 2011, 107, 208101.	2.9	82
169	X-Ray Phase Contrast Imaging of Freestanding Lipid Model Membranes. Biophysical Journal, 2011, 100, 337a-338a.	0.2	0
170	Ptychographic coherent x-ray diffractive imaging in the water window. Optics Express, 2011, 19, 1037.	1.7	56
171	Partially coherent nano-focused x-ray radiation characterized by Talbot interferometry. Optics Express, 2011, 19, 9656.	1.7	35
172	Structure and composition of myelinated axons: A multimodal synchrotron spectro-microscopy study. Journal of Structural Biology, 2011, 173, 202-212.	1.3	34
173	The Goettingen Holography Endstation of Beamline P10 at PETRA III at DESY. AIP Conference Proceedings, 2011, , .	0.3	41
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