Julia Herzen

List of Publications by Year
in descending order

174 papers	3,886 citations	117453 34 h-index	182168 51 g-index
182 all docs	182 docs citations	182 times ranked	2917 citing authors

#	Article	IF	Citations
1	Emphysema diagnosis using X-ray dark-field imaging at a laser-driven compact synchrotron light source. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17880-17885.	3.3	167
2	Dosimetric evaluation of a 2D pixel ionization chamber for implementation in clinical routine. Physics in Medicine and Biology, 2007, 52, 1197-1208.	1.6	121
3	Spectral Photon-counting CT: Initial Experience with Dualâ€“Contrast Agent K-Edge Colonography. Radiology, 2017, 283, 723-728.	3.6	111
4	Quantitative phase-contrast tomography of a liquid phantom using a conventional x-ray tube source. Optics Express, 2009, 17, 10010.	1.7	95
5	Three-dimensional virtual histology enabled through cytoplasm-specific X-ray stain for microscopic and nanoscopic computed tomography. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2293-2298.	3.3	85
6	In-vivo X-ray Dark-Field Chest Radiography of a Pig. Scientific Reports, 2017, 7, 4807.	1.6	83
7	The contractile sponge epitheliumsensu latoâ€“ body contraction of the demospongeTethya wilhelmais mediated by the pinacoderm. Journal of Experimental Biology, 2011, 214, 1692-1698.	0.8	81
8	Grating-based X-ray phase contrast for biomedical imaging applications. Zeitschrift Fur Medizinische Physik, 2013, 23, 176-185.	0.6	78
9	X-ray dark-field imaging of the human lungâ€”A feasibility study on a deceased body. PLoS ONE, 2018, 13, e0204565.	1.1	76
10	X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study. The Lancet Digital Health, 2021, 3, e733-e744.	5.9	70
11	Quantitative breast tissue characterization using grating-based x-ray phase-contrast imaging. Physics in Medicine and Biology, 2014, 59, 1557-1571.	1.6	69
12	Spatial resolution characterization of a X-ray microCT system. Applied Radiation and Isotopes, 2014, 94, 230-234.	0.7	68
13	Experimental Realisation of High-sensitivity Laboratory X-ray Grating-based Phase-contrast Computed Tomography. Scientific Reports, 2016, 6, 24022.	1.6	65
14	Assessment of quantification accuracy and image quality of a fullâ€body dualâ€layer spectral <scp>CT</scp> system. Journal of Applied Clinical Medical Physics, 2018, 19, 204-217.	0.8	65
15	X-ray Dark-field Radiography - In-Vivo Diagnosis of Lung Cancer in Mice. Scientific Reports, 2017, 7, 402.	1.6	63
16	Phase-Contrast CT: Qualitative and Quantitative Evaluation of Atherosclerotic Carotid Artery Plaque. Radiology, 2014, 271, 870-878.	3.6	62
17	Simultaneous dual-contrast multi-phase liver imaging using spectral photon-counting computed tomography: a proof-of-concept study. European Radiology Experimental, 2017, 1, 25.	1.7	61
18	Quantitative X-ray phase-contrast computed tomography at 82 keV. Optics Express, 2013, 21, 4155.	1.7	59

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19	High density resolution in synchrotron-radiation-based attenuation-contrast microtomography. Proceedings of SPIE, 2008, , .	0.8	53
20	Short-range order in mesoscale systems probed by X-ray grating interferometry. Europhysics Letters, 2015, 112, 68002.	0.7	51
21	Insights into the Skeletonization, Lifestyle, and Affinity of the Unusual Ediacaran Fossil Corumbella. PLoS ONE, 2015, 10, e0114219.	1.1	47
22	Comparison between x-ray tube-based and synchrotron radiation-based Î¼CT. Proceedings of SPIE, 2008, , .	0.8	46
23	Assessment of grating-based X-ray phase-contrast CT for differentiation of invasive ductal carcinoma and ductal carcinoma in situ in an experimental ex vivo set-up. European Radiology, 2013, 23, 381-387.	2.3	45
24	Diagnosing and Mapping Pulmonary Emphysema on X-Ray Projection Images: Incremental Value of Grating-Based X-Ray Dark-Field Imaging. PLoS ONE, 2013, 8, e59526.	1.1	44
25	Latest developments in microtomography and nanotomography at PETRA III. Powder Diffraction, 2010, 25, 161-164.	0.4	43
26	Toward Clinically Compatible Phase-Contrast Mammography. PLoS ONE, 2015, 10, e0130776.	1.1	41
27	Improved visualization of breast cancer features in multifocal carcinoma using phase-contrast and dark-field mammography: an ex vivo study. European Radiology, 2015, 25, 3659-3668.	2.3	41
28	Helical X-ray phase-contrast computed tomography without phase stepping. Scientific Reports, 2016, 6, 23953.	1.6	41
29	X-ray phase-contrast imaging of the breastâ€"advances towards clinical implementation. British Journal of Radiology, 2014, 87, 20130606.	1.0	40
30	Dark-field X-ray imaging of unsaturated water transport in porous materials. Applied Physics Letters, 2014, 105, .	1.5	38
31	AHA classification of coronary and carotid atherosclerotic plaques by grating-based phase-contrast computed tomography. European Radiology, 2016, 26, 3223-3233.	2.3	38
32	Large field-of-view tiled grating structures for X-ray phase-contrast imaging. Review of Scientific Instruments, 2017, 88, 015104.	0.6	38
33	Non-invasive Differentiation of Kidney Stone Types using X-ray Dark-Field Radiography. Scientific Reports, 2015, 5, 9527.	1.6	37
34	Evaluation of phase-contrast CT of breast tissue at conventional X-ray sources â€“ presentation of selected findings. Zeitschrift Fur Medizinische Physik, 2013, 23, 212-221.	0.6	36
35	Nucleus-specific X-ray stain for 3D virtual histology. Scientific Reports, 2018, 8, 17855.	1.6	36
36	Scalable routing easy as PIE: A practical isometric embedding protocol. , 2011, , .		35

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37	Quantitative imaging using high-energy X-ray phase-contrast CT with a 70 kVp polychromatic X-ray spectrum. Optics Express, 2015, 23, 523.	1.7	35
38	Simultaneous wood and metal particle detection on dark-field radiography. European Radiology Experimental, 2018, 2, 1.	1.7	35
39	The nanotomography endstation at the PETRA III Imaging Beamline. Journal of Physics: Conference Series, 2013, 425, 182002.	0.3	34
40	Bi-Directional X-Ray Phase-Contrast Mammography. PLoS ONE, 2014, 9, e93502.	1.1	34
41	P05 imaging beamline at PETRA III: first results. Proceedings of SPIE, 2014, , .	0.8	33
42	Imaging Liver Lesions Using Grating-Based Phase-Contrast Computed Tomography with Bi-Lateral Filter Post-Processing. PLoS ONE, 2014, 9, e83369.	1.1	31
43	Multi-contrast 3D X-ray imaging of porous and composite materials. Applied Physics Letters, 2015, 106, .	1.5	31
44	Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. Scientific Reports, 2018, 8, 2602.	1.6	31
45	Grating-based phase-contrast and dark-field computed tomography: a single-shot method. Scientific Reports, 2017, 7, 7476.	1.6	30
46	Direct quantitative material decomposition employing grating-based X-ray phase-contrast CT. Scientific Reports, 2018, 8, 16394.	1.6	30
47	Is solid always best? Cranial performance in solid and fenestrated caecilian skulls. Journal of Experimental Biology, 2012, 215, 833-844.	0.8	29
48	Visualizing Typical Features of Breast Fibroadenomas Using Phase-Contrast CT: An Ex-Vivo Study. PLoS ONE, 2014, 9, e97101.	1.1	29
49	X-ray phase contrast tomography by tracking near field speckle. Scientific Reports, 2015, 5, 8762.	1.6	28
50	Improved Diagnostics by Assessing the Micromorphology of Breast Calcifications via X-Ray Dark-Field Radiography. Scientific Reports, 2016, 6, 36991.	1.6	28
51	K-edge subtraction imaging for coronary angiography with a compact synchrotron X-ray source. PLoS ONE, 2018, 13, e0208446.	1.1	28
52	Optimization of tube voltage in X-ray dark-field chest radiography. Scientific Reports, 2019, 9, 8699.	1.6	28
53	Translation of Atherosclerotic Plaque Phase-Contrast CT Imaging from Synchrotron Radiation to a Conventional Lab-Based X-Ray Source. PLoS ONE, 2013, 8, e73513.	1.1	25
54	Energy-resolved visibility analysis of grating interferometers operated at polychromatic X-ray sources. Optics Express, 2014, 22, 30394.	1.7	25

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55	Phase-Contrast Hounsfield Units of Fixated and Non-Fixated Soft-Tissue Samples. PLoS ONE, 2015, 10, e0137016.	1.1	25
56	Mono-Energy Coronary Angiography with a Compact Synchrotron Source. Scientific Reports, 2017, 7, 42211.	1.6	25
57	High resolution laboratory grating-based X-ray phase-contrast CT. Scientific Reports, 2018, 8, 15884.	1.6	25
58	Accurate effective atomic number determination with polychromatic grating-based phase-contrast computed tomography. Optics Express, 2018, 26, 15153.	1.7	25
59	Micro- and nano-tomography at the GKSS Imaging Beamline at PETRA III. Proceedings of SPIE, 2010, , .	0.8	24
60	Comparison of Contrast-to-Noise Ratios of Transmission and Dark-Field Signal in Grating-Based X-ray Imaging for Healthy Murine Lung Tissue. Zeitschrift Fur Medizinische Physik, 2013, 23, 236-242.	0.6	24
61	X-ray grating interferometer for materials-science imaging at a low-coherent wiggler source. Review of Scientific Instruments, 2011, 82, 113711.	0.6	23
62	Grating-based X-ray phase-contrast tomography of atherosclerotic plaque at high photon energies. Zeitschrift Fur Medizinische Physik, 2013, 23, 194-203.	0.6	23
63	Analysis and correction of bias induced by phase stepping jitter in grating-based X-ray phase-contrast imaging. Optics Express, 2018, 26, 12707.	1.7	23
64	Sponge budding is a spatiotemporal morphological patterning process: Insights from synchrotron radiation-based x-ray microtomography into the asexual reproduction of Tethya wilhelma. Frontiers in Zoology, 2009, 6, 19.	0.9	22
65	Visualization of subcutaneous insulin injections by x-ray computed tomography. Physics in Medicine and Biology, 2012, 57, 7191-7203.	1.6	22
66	Recent advances in X-ray imaging of breast tissue: From two- to three-dimensional imaging. Physica Medica, 2020, 79, 69-79.	0.4	22
67	X-ray Phase-Contrast Computed Tomography of Human Coronary Arteries. Investigative Radiology, 2015, 50, 686-694.	3.5	21
68	Imaging features in post-mortem x-ray dark-field chest radiographs and correlation with conventional x-ray and CT. European Radiology Experimental, 2019, 3, 25.	1.7	21
69	Unwrapping differential x-ray phase-contrast images through phase estimation from multiple energy data. Optics Express, 2013, 21, 29101.	1.7	19
70	X-ray phase-contrast tomosynthesis for improved breast tissue discrimination. European Journal of Radiology, 2014, 83, 531-536.	1.2	19
71	Helical differential X-ray phase-contrast computed tomography. Physica Medica, 2014, 30, 374-379.	0.4	19
72	Phase Unwrapping in Spectral X-Ray Differential Phase-Contrast Imaging With an Energy-Resolving Photon-Counting Pixel Detector. IEEE Transactions on Medical Imaging, 2015, 34, 816-823.	5.4	19

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73	Low-dose, phase-contrast mammography with high signal-to-noise ratio. Biomedical Optics Express, 2016, 7, 381.	1.5	18
74	Increasing the field of view in grating based X-ray phase contrast imaging using stitched gratings. Journal of X-Ray Science and Technology, 2016, 24, 379-388.	0.7	18
75	Assessment of intraductal carcinoma in situ (DCIS) using grating-based X-ray phase-contrast CT at conventional X-ray sources: An experimental ex-vivo study. PLoS ONE, 2019, 14, e0210291.	1.1	18
76	A step towards valid detection and quantification of lung cancer volume in experimental mice with contrast agent-based X-ray microtomography. Scientific Reports, 2019, 9, 1325.	1.6	17
77	Quantitative X-ray phase contrast computed tomography with grating interferometry. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 4171-4188.	3.3	17
78	Quantitative Three-Dimensional Imaging of Lipid, Protein, and Water Contents via X-Ray Phase-Contrast Tomography. PLoS ONE, 2016, 11, e0151889.	1.1	17
79	Qualitative and Quantitative Imaging Evaluation of Renal Cell Carcinoma Subtypes with Grating-based X-ray Phase-contrast CT. Scientific Reports, 2017, 7, 45400.	1.6	16
80	Dose-compatible grating-based phase-contrast mammography on mastectomy specimens using a compact synchrotron source. Scientific Reports, 2018, 8, 15700.	1.6	16
81	Spectral Angiography Material Decomposition Using an Empirical Forward Model and a Dictionary-Based Regularization. IEEE Transactions on Medical Imaging, 2018, 37, 2298-2309.	5.4	16
82	K-edge Subtraction Computed Tomography with a Compact Synchrotron X-ray Source. Scientific Reports, 2019, 9, 13332.	1.6	16
83	Simulated Cystic Renal Lesions: Quantitative X-ray Phase-Contrast CTâ€"An in Vitro Phantom Study. Radiology, 2014, 272, 739-748.	3.6	15
84	Biomedical x-ray imaging with a GaAs photon-counting detector: A comparative study. APL Photonics, 2020, 5, .	3.0	15
85	High-resolution and sensitivity bi-directional x-ray phase contrast imaging using 2D Talbot array illuminators. Optica, 2021, 8, 1588.	4.8	15
86	Grating-based spectral X-ray dark-field imaging for correlation with structural size measures. Scientific Reports, 2020, 10, 13195.	1.6	14
87	The nonâ€hierarchical, nonâ€uniformly branching topology of a leuconoid sponge aquiferous system revealed by 3D reconstruction and morphometrics using corrosion casting and Xâ€ray microtomography. Acta Zoologica, 2012, 93, 160-170.	0.6	13
88	Evaluation of the potential of phase-contrast computed tomography for improved visualization of cancerous human liver tissue. Zeitschrift Fur Medizinische Physik, 2013, 23, 204-211.	0.6	13
89	Lens-term- and edge-effect in X-ray grating interferometry. Biomedical Optics Express, 2015, 6, 4812.	1.5	13
90	Electron Density of Adipose Tissues Determined by Phase-Contrast Computed Tomography Provides a Measure for Mitochondrial Density and Fat Content. Frontiers in Physiology, 2018, 9, 707.	1.3	13

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91	Applying x-ray tomography in the field of vertebrate biology: form, function, and evolution of the skull of caecilians (Lissamphibia: Gymnophiona). , 2008, , .		12
92	Cone-beam differential phase-contrast laminography with x-ray tube source. Europhysics Letters, 2014, 106, 68002.	0.7	12
93	Correspondence: Quantitative evaluation of X-ray dark-field images for microcalcification analysis in mammography. Nature Communications, 2016, 7, 10863.	5.8	12
94	Spectral Differential Phase Contrast X-Ray Radiography. IEEE Transactions on Medical Imaging, 2020, 39, 578-587.	5.4	12
95	Two-shot X-ray dark-field imaging. Optics Express, 2016, 24, 27032.	1.7	11
96	Grating-based X-ray dark-field computed tomography for the characterization of friction stir welds: A feasibility study. Materials Characterization, 2017, 129, 143-148.	1.9	11
97	Qualitative and Quantitative Evaluation of Structural Myocardial Alterations by Grating-Based Phase-Contrast Computed Tomography. Investigative Radiology, 2018, 53, 26-34.	3.5	11
98	Contrast-enhanced spectral mammography with a compact synchrotron source. PLoS ONE, 2019, 14, e0222816.	1.1	11
99	Contrast-to-noise ratios and thickness-normalized, ventilation-dependent signal levels in dark-field and conventional in vivo thorax radiographs of two pigs. PLoS ONE, 2019, 14, e0217858.	1.1	11
100	Comparative micro computed tomography study of a vertebral body. Proceedings of SPIE, 2008, , .	0.8	10
101	Morphology of urethral tissues. Proceedings of SPIE, 2010, , .	0.8	10
102	Characterization of the CCD and CMOS cameras for grating-based phase-contrast tomography. Proceedings of SPIE, 2014, , .	0.8	10
103	A theoretical framework for comparing noise characteristics of spectral, differential phase-contrast and spectral differential phase-contrast x-ray imaging. Physics in Medicine and Biology, 2020, 65, 065010.	1.6	10
104	In-vivo X-ray dark-field computed tomography for the detection of radiation-induced lung damage in mice. Physics and Imaging in Radiation Oncology, 2021, 20, 11-16.	1.2	10
105	The New GKSS Materials Science Beamlines at DESY: Recent Results and Future Options. Materials Science Forum, 2010, 638-642, 2470-2475.	0.3	9
106	Anatomy, function, and evolution of jaw and hyobranchial muscles in cryptobranchoid salamander larvae. Journal of Morphology, 2014, 275, 230-246.	0.6	9
107	X-ray dark-field contrast imaging of water transport during hydration and drying of early-age cement-based materials. Materials Characterization, 2018, 142, 560-576.	1.9	9
108	3D grating-based X-ray phase-contrast computed tomography for high-resolution quantitative assessment of cartilage: An experimental feasibility study with 3T MRI, 7T MRI and biomechanical correlation. PLoS ONE, 2019, 14, e0212106.	1.1	9

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109	X-ray Dark-Field Radiography. Investigative Radiology, 2020, 55, 494-498.	3.5	9
110	Dual-Energy X-Ray Dark-Field Material Decomposition. IEEE Transactions on Medical Imaging, 2021, 40, 974-985.	5.4	9
111	Whole-body x-ray dark-field radiography of a human cadaver. European Radiology Experimental, 2021, 5, 6.	1.7	9
112	Dosimetry on first clinical darkâ€field chest radiography. Medical Physics, 2021, 48, 6152-6159.	1.6	9
113	Quality and parameter control of X-ray absorption gratings by angular X-ray transmission. Optics Express, 2019, 27, 15943.	1.7	9
114	Synchrotronâ€“microcomputed tomography studies of normal and pathological cranial sutures: further insight. Journal of Neurosurgery: Pediatrics, 2010, 5, 238-242.	0.8	8
115	Ex Vivo Assessment of Coronary Atherosclerotic Plaque by Grating-Based Phase-Contrast Computed Tomography. Investigative Radiology, 2017, 52, 223-231.	3.5	8
116	Advanced Non-Destructive Ocular Visualization Methods by Improved X-Ray Imaging Techniques. PLoS ONE, 2017, 12, e0170633.	1.1	8
117	Fourier domain image fusion for differential X-ray phase-contrast breast imaging. European Journal of Radiology, 2017, 89, 27-32.	1.2	7
118	Early detection of radiation-induced lung damage with X-ray dark-field radiography in mice. European Radiology, 2021, 31, 4175-4183.	2.3	7
119	High density resolution synchrotron radiation based x-ray microtomography (SR Î¼CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
120	X-ray grating interferometer for imaging at a second-generation synchrotron radiation source. Proceedings of SPIE, 2010, , .	0.8	6
121	Morphology of atherosclerotic coronary arteries. Proceedings of SPIE, 2012, , .	0.8	6
122	The female cloaca of an oviparous caecilian amphibian (Gymnophiona): functional and seasonal aspects. Acta Zoologica, 2012, 93, 208-221.	0.6	6
123	Dark-field imaging in coronary atherosclerosis. European Journal of Radiology, 2017, 94, 38-45.	1.2	6
124	Grating-based phase-contrast CT (PCCT): histopathological correlation of human liver cirrhosis and hepatocellular carcinoma specimen. Journal of Clinical Pathology, 2020, 73, 483-487.	1.0	6
125	K-edge subtraction imaging for iodine and calcium separation at a compact synchrotron x-ray source. Journal of Medical Imaging, 2020, 7, 1.	0.8	6
126	Mineral distribution in highly fluorotic and in normal teeth: A synchrotron microcomputer tomographic study. Materialwissenschaft Und Werkstofftechnik, 2009, 40, 294-296.	0.5	5

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127	Grating-based tomography of human tissues. AIP Conference Proceedings, 2012, , .	0.3	5
128	Grating-based x-ray phase-contrast imaging at PETRA III. Proceedings of SPIE, 2014, , .	0.8	5
129	Dynamic Quantitative Iodine Myocardial Perfusion Imaging with Dual-Layer CT using a Porcine Model. Scientific Reports, 2019, 9, 16046.	1.6	5
130	Paleometry as a key tool to deal with paleobiological and astrobiological issues: some contributions and reflections on the Brazilian fossil record. International Journal of Astrobiology, 2019, 18, 575-589.	0.9	5
131	Single spectrum three-material decomposition with grating-based x-ray phase-contrast CT. Physics in Medicine and Biology, 2020, 65, 185011.	1.6	5
132	Correction of Motion Artifacts in Dark-Field Radiography of the Human Chest. IEEE Transactions on Medical Imaging, 2022, 41, 895-902.	5.4	5
133	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency. European Radiology Experimental, 2022, 6, 9.	1.7	5
134	Ultra-small angle neutron scattering and X-ray tomography studies of caseinateâ€“hydroxyapatite microporous materials. Materials Chemistry and Physics, 2010, 123, 77-82.	2.0	4
135	Absorption and Phase Contrast X-Ray Imaging in Paleontology Using Laboratory and Synchrotron Sources. Microscopy and Microanalysis, 2015, 21, 1288-1295.	0.2	4
136	Single-grating interferometer for high-resolution phase-contrast imaging at synchrotron radiation sources. , 2016, , .		4
137	Revising the lower statistical limit of x-ray grating-based phase-contrast computed tomography. PLoS ONE, 2017, 12, e0184217.	1.1	4
138	Tilted grating phase-contrast computed tomography using statistical iterative reconstruction. Scientific Reports, 2018, 8, 6608.	1.6	4
139	Direct Differentiation of Pathological Changes in the Human Lung Parenchyma With Grating-Based Spectral X-ray Dark-Field Radiography. IEEE Transactions on Medical Imaging, 2021, 40, 1568-1578.	5.4	4
140	Correlation of image quality parameters with tube voltage in X-ray dark-field chest radiography: a phantom study. Scientific Reports, 2021, 11, 14130.	1.6	4
141	X-ray dark-field radiography for in situ gout diagnosis by means of an ex vivo animal study. Scientific Reports, 2021, 11, 19021.	1.6	4
142	Internal structures of scaffold-free 3D cell cultures visualized by synchrotron radiation-based micro-computed tomography. , 2008, , .		3
143	SRÎ¼CT study of crack propagation within laser-welded aluminum-alloy T-joints. Proceedings of SPIE, 2008, , .	0.8	3
144	Grating interferometry-based phase microtomography of atherosclerotic human arteries. Proceedings of SPIE, 2014, , .	0.8	3

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145	Optimization of in vivo murine X-ray dark-field computed tomography. Review of Scientific Instruments, 2019, 90, 103103.	0.6	3
146	Signal-to-thickness calibration and pixel-wise interpolation for beam-hardening artefact reduction in microCT. Europhysics Letters, 2019, 125, 38003.	0.7	3
147	Photon-counting spectral basis component material decomposition for musculoskeletal radiographs. Scientific Reports, 2020, 10, 13889.	1.6	3
148	Evaluation of the degradation behavior of resorbable metal implants for in vivo osteosynthesis by synchrotron radiation based x-ray tomography and histology. Proceedings of SPIE, 2016, , .	0.8	3
149	The GKSS beamlines at PETRA III and DORIS III. , 2008, , .		2
150	High resolution laboratory grating-based x-ray phase-contrast CT. , 2017, , .		2
151	Ex vivo characterization of pathologic fluids with quantitative phase-contrast computed tomography. European Journal of Radiology, 2017, 86, 99-104.	1.2	2
152	3D Imaging of Soft-Tissue Samples using an X-ray Specific Staining Method and Nanoscopic Computed Tomography. Journal of Visualized Experiments, 2019, , .	0.2	2
153	Propagation-based phase-contrast tomography of a guinea pig inner ear with cochlear implant using a model-based iterative reconstruction algorithm. Biomedical Optics Express, 2018, 9, 5330.	1.5	2
154	Retrieval of 3D information in X-ray dark-field imaging with a large field of view. Scientific Reports, 2021, 11, 23504.	1.6	2
155	Xâ€ray Stain Localization with Nearâ€Field Ptychographic Computed Tomography. Advanced Science, 0, , 2201723.	5.6	2
156	Compressed sensing for phase contrast CT. , 2012, , .		1
157	Three-dimensional registration of synchrotron radiation-based micro-computed tomography images with advanced laboratory micro-computed tomography data from murine kidney casts. , 2014, , .		1
158	Redefining the lower statistical limit in x-ray phase-contrast imaging. Proceedings of SPIE, 2015, , .	0.8	1
159	A proof-of principal study using phase-contrast imaging for the detection of large airway pathologies after lung transplantation. Scientific Reports, 2020, 10, 18444.	1.6	1
160	Signal Retrieval from Non-Sinusoidal Intensity Modulations in X-ray and Neutron Interferometry Using Piecewise-Defined Polynomial Function. Journal of Imaging, 2021, 7, 209.	1.7	1
161	Visualizing the root-PDL-bone interface using high-resolution microtomography. , 2008, , .		0
162	Improved diagnostic differentiation of renal cystic lesions with phase-contrast computed tomography (PCCT). Proceedings of SPIE, 2012, , .	0.8	0

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163	Compressed sensing for phase-contrast computed tomography. Proceedings of SPIE, 2012, , .	0.8	0
164	Applied x-ray computed tomography with high resolution in paleontology using laboratory and synchrotron sources. , 2014, , .		0
165	Classification of the micromorphology of breast calcifications in x-ray dark-field mammography. Proceedings of SPIE, 2017, , .	0.8	0
166	Improving image quality in laboratory x-ray phase-contrast imaging. , 2017, , .		0
167	Filling the Gap: Entirely Beige/Brite Adipose Tissues in One of the Smallest Mammals, Suncus etruscus. FASEB Journal, 2021, 35, .	0.2	0
168	SU-E-I-162: Quantitative Analysis of Human Soft Tissue Using Grating-Based X- Ray Phase Contrast. Medical Physics, 2011, 38, 3433-3433.	1.6	0
169	High-resolution grating interferometer for phase-contrast imaging at PETRA III. , 2017, , .		0
170	Statistical iterative reconstruction for spectral phase contrast CT. , 2019, , .		0
171	Dose and spatial resolution analysis of grating-based phase-contrast mammography using an inverse Compton x-ray source. , 2019, , .		0
172	Single-energy material decomposition with grating-based x-ray phase-contrast CT. , 2019, , .		0
173	New staining tools and developments for 3D soft tissue CT imaging. , 2019, , .		0
174	Dose and spatial resolution analysis of grating-based phase-contrast mammography using an inverse Compton x-ray source. Journal of Medical Imaging, 2020, 7, 1.	0.8	0