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	Correction of Motion Artifacts in Dark-Field Radiography of the Human Chest. IEEE Transactions on Medical Imaging, 2022, 41, 895-902.	5.4	5
2	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency. European Radiology Experimental, 2022, 6, 9.	1.7	5
3	Early detection of radiation-induced lung damage with X-ray dark-field radiography in mice. European Radiology, 2021, 31, 4175-4183.	2.3	7
4	Dual-Energy X-Ray Dark-Field Material Decomposition. IEEE Transactions on Medical Imaging, 2021, 40, 974-985.	5.4	9
5	Whole-body x-ray dark-field radiography of a human cadaver. European Radiology Experimental, 2021, 5, 6.	1.7	9
6	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
7	Filling the Gap: Entirely Beige/Brite Adipose Tissues in One of the Smallest Mammals, Suncus etruscus. FASEB Journal, 2021, 35, .	0.2	0
8	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
9	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
10	Dosimetry on first clinical darkâ€field chest radiography. Medical Physics, 2021, 48, 6152-6159.	1.6	9
11	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
12	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
13	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
14	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
15	High-resolution and sensitivity bi-directional x-ray phase contrast imaging using 2D Talbot array illuminators. Optica, 2021, 8, 1588.	4.8	15
16	Retrieval of 3D information in X-ray dark-field imaging with a large field of view. Scientific Reports, 2021, 11, 23504.	1.6	2
17	Spectral Differential Phase Contrast X-Ray Radiography. IEEE Transactions on Medical Imaging, 2020, 39, 578-587.	5.4	12
18	Recent advances in X-ray imaging of breast tissue: From two- to three-dimensional imaging. Physica Medica, 2020, 79, 69-79.	0.4	22

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19	Biomedical x-ray imaging with a GaAs photon-counting detector: A comparative study. APL Photonics, 2020, 5, .	3.0	15
20	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
21	Grating-based spectral X-ray dark-field imaging for correlation with structural size measures. Scientific Reports, 2020, 10, 13195.	1.6	14
22	X-ray Dark-Field Radiography. Investigative Radiology, 2020, 55, 494-498.	3.5	9
23	Photon-counting spectral basis component material decomposition for musculoskeletal radiographs. Scientific Reports, 2020, 10, 13889.	1.6	3
24	Single spectrum three-material decomposition with grating-based x-ray phase-contrast CT. Physics in Medicine and Biology, 2020, 65, 185011.	1.6	5
25	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
26	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
27	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
28	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
29	Optimization of tube voltage in X-ray dark-field chest radiography. Scientific Reports, 2019, 9, 8699.	1.6	28
30	Contrast-enhanced spectral mammography with a compact synchrotron source. PLoS ONE, 2019, 14, e0222816.	1.1	11
31	Optimization of in vivo murine X-ray dark-field computed tomography. Review of Scientific Instruments, 2019, 90, 103103.	0.6	3
32	Dynamic Quantitative Iodine Myocardial Perfusion Imaging with Dual-Layer CT using a Porcine Model. Scientific Reports, 2019, 9, 16046.	1.6	5
33	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
34	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
35	K-edge Subtraction Computed Tomography with a Compact Synchrotron X-ray Source. Scientific Reports, 2019, 9, 13332.	1.6	16
36	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

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37	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
38	Signal-to-thickness calibration and pixel-wise interpolation for beam-hardening artefact reduction in microCT. Europhysics Letters, 2019, 125, 38003.	0.7	3
39	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
40	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
41	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
42	Quality and parameter control of X-ray absorption gratings by angular X-ray transmission. Optics Express, 2019, 27, 15943.	1.7	9
43	Statistical iterative reconstruction for spectral phase contrast CT. , 2019, , .		0
44	Dose and spatial resolution analysis of grating-based phase-contrast mammography using an inverse Compton x-ray source. , 2019, , .		0
45	Single-energy material decomposition with grating-based x-ray phase-contrast CT. , 2019, , .		0
46	New staining tools and developments for 3D soft tissue CT imaging. , 2019, , .		0
47	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
48	Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. Scientific Reports, 2018, 8, 2602.	1.6	31
49	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
50	Tilted grating phase-contrast computed tomography using statistical iterative reconstruction. Scientific Reports, 2018, 8, 6608.	1.6	4
51	Qualitative and Quantitative Evaluation of Structural Myocardial Alterations by Grating-Based Phase-Contrast Computed Tomography. Investigative Radiology, 2018, 53, 26-34.	3.5	11
52	Nucleus-specific X-ray stain for 3D virtual histology. Scientific Reports, 2018, 8, 17855.	1.6	36
53	K-edge subtraction imaging for coronary angiography with a compact synchrotron X-ray source. PLoS ONE, 2018, 13, e0208446.	1.1	28
54	Direct quantitative material decomposition employing grating-based X-ray phase-contrast CT. Scientific Reports, 2018, 8, 16394.	1.6	30

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55	X-ray dark-field imaging of the human lungâ€"A feasibility study on a deceased body. PLoS ONE, 2018, 13, e0204565.	1.1	76
56	Dose-compatible grating-based phase-contrast mammography on mastectomy specimens using a compact synchrotron source. Scientific Reports, 2018, 8, 15700.	1.6	16
57	High resolution laboratory grating-based X-ray phase-contrast CT. Scientific Reports, 2018, 8, 15884.	1.6	25
58	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
59	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
60	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
61	Accurate effective atomic number determination with polychromatic grating-based phase-contrast computed tomography. Optics Express, 2018, 26, 15153.	1.7	25
62	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
63	Simultaneous wood and metal particle detection on dark-field radiography. European Radiology Experimental, 2018, 2, 1.	1.7	35
64	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
65	Large field-of-view tiled grating structures for X-ray phase-contrast imaging. Review of Scientific Instruments, 2017, 88, 015104.	0.6	38
66	Fourier domain image fusion for differential X-ray phase-contrast breast imaging. European Journal of Radiology, 2017, 89, 27-32.	1.2	7
67	Mono-Energy Coronary Angiography with a Compact Synchrotron Source. Scientific Reports, 2017, 7, 42211.	1.6	25
68	Classification of the micromorphology of breast calcifications in x-ray dark-field mammography. Proceedings of SPIE, 2017, , .	0.8	0
69	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
70	Ex Vivo Assessment of Coronary Atherosclerotic Plaque by Grating-Based Phase-Contrast Computed Tomography. Investigative Radiology, 2017, 52, 223-231.	3.5	8
71	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
72	X-ray Dark-field Radiography - In-Vivo Diagnosis of Lung Cancer in Mice. Scientific Reports, 2017, 7, 402.	1.6	63

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73	Improving image quality in laboratory x-ray phase-contrast imaging. , 2017, , .		0
74	High resolution laboratory grating-based x-ray phase-contrast CT. , 2017, , .		2
75	Spectral Photon-counting CT: Initial Experience with Dualâ€“Contrast Agent K-Edge Colonography. Radiology, 2017, 283, 723-728.	3.6	111
76	Ex vivo characterization of pathologic fluids with quantitative phase-contrast computed tomography. European Journal of Radiology, 2017, 86, 99-104.	1.2	2
77	Dark-field imaging in coronary atherosclerosis. European Journal of Radiology, 2017, 94, 38-45.	1.2	6
78	Grating-based phase-contrast and dark-field computed tomography: a single-shot method. Scientific Reports, 2017, 7, 7476.	1.6	30
79	In-vivo X-ray Dark-Field Chest Radiography of a Pig. Scientific Reports, 2017, 7, 4807.	1.6	83
80	Advanced Non-Destructive Ocular Visualization Methods by Improved X-Ray Imaging Techniques. PLoS ONE, 2017, 12, e0170633.	1.1	8
81	Revising the lower statistical limit of x-ray grating-based phase-contrast computed tomography. PLoS ONE, 2017, 12, e0184217.	1.1	4
82	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
83	High-resolution grating interferometer for phase-contrast imaging at PETRA III. , 2017, , .		0
84	Low-dose, phase-contrast mammography with high signal-to-noise ratio. Biomedical Optics Express, 2016, 7, 381.	1.5	18
85	Two-shot X-ray dark-field imaging. Optics Express, 2016, 24, 27032.	1.7	11
86	Single-grating interferometer for high-resolution phase-contrast imaging at synchrotron radiation sources. , 2016, , .		4
87	Improved Diagnostics by Assessing the Micromorphology of Breast Calcifications via X-Ray Dark-Field Radiography. Scientific Reports, 2016, 6, 36991.	1.6	28
88	Experimental Realisation of High-sensitivity Laboratory X-ray Grating-based Phase-contrast Computed Tomography. Scientific Reports, 2016, 6, 24022.	1.6	65
89	AHA classification of coronary and carotid atherosclerotic plaques by grating-based phase-contrast computed tomography. European Radiology, 2016, 26, 3223-3233.	2.3	38
90	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

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91	Correspondence: Quantitative evaluation of X-ray dark-field images for microcalcification analysis in mammography. Nature Communications, 2016, 7, 10863.	5.8	12
92	Helical X-ray phase-contrast computed tomography without phase stepping. Scientific Reports, 2016, 6, 23953.	1.6	41
93	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
94	Quantitative Three-Dimensional Imaging of Lipid, Protein, and Water Contents via X-Ray Phase-Contrast Tomography. PLoS ONE, 2016, 11, e0151889.	1.1	17
95	Absorption and Phase Contrast X-Ray Imaging in Paleontology Using Laboratory and Synchrotron Sources. Microscopy and Microanalysis, 2015, 21, 1288-1295.	0.2	4
96	Lens-term- and edge-effect in X-ray grating interferometry. Biomedical Optics Express, 2015, 6, 4812.	1.5	13
97	Non-invasive Differentiation of Kidney Stone Types using X-ray Dark-Field Radiography. Scientific Reports, 2015, 5, 9527.	1.6	37
98	X-ray phase contrast tomography by tracking near field speckle. Scientific Reports, 2015, 5, 8762.	1.6	28
99	X-ray Phase-Contrast Computed Tomography of Human Coronary Arteries. Investigative Radiology, 2015, 50, 686-694.	3.5	21
100	Phase-Contrast Hounsfield Units of Fixated and Non-Fixated Soft-Tissue Samples. PLoS ONE, 2015, 10, e0137016.	1.1	25
101	Toward Clinically Compatible Phase-Contrast Mammography. PLoS ONE, 2015, 10, e0130776.	1.1	41
102	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
103	Insights into the Skeletonization, Lifestyle, and Affinity of the Unusual Ediacaran Fossil Corumbella. PLoS ONE, 2015, 10, e0114219.	1.1	47
104	Short-range order in mesoscale systems probed by X-ray grating interferometry. Europhysics Letters, 2015, 112, 68002.	0.7	51
105	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
106	Multi-contrast 3D X-ray imaging of porous and composite materials. Applied Physics Letters, 2015, 106, .	1.5	31
107	Redefining the lower statistical limit in x-ray phase-contrast imaging. Proceedings of SPIE, 2015, , .	0.8	1
108	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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109	Imaging Liver Lesions Using Grating-Based Phase-Contrast Computed Tomography with Bi-Lateral Filter Post-Processing. PLoS ONE, 2014, 9, e83369.	1.1	31
110	Visualizing Typical Features of Breast Fibroadenomas Using Phase-Contrast CT: An Ex-Vivo Study. PLoS ONE, 2014, 9, e97101.	1.1	29
111	Grating interferometry-based phase microtomography of atherosclerotic human arteries. Proceedings of SPIE, 2014, , .	0.8	3
112	Grating-based x-ray phase-contrast imaging at PETRA III. Proceedings of SPIE, 2014, , .	0.8	5
113	P05 imaging beamline at PETRA III: first results. Proceedings of SPIE, 2014, , .	0.8	33
114	Three-dimensional registration of synchrotron radiation-based micro-computed tomography images with advanced laboratory micro-computed tomography data from murine kidney casts. , 2014, , .		1
115	Dark-field X-ray imaging of unsaturated water transport in porous materials. Applied Physics Letters, 2014, 105, .	1.5	38
116	Simulated Cystic Renal Lesions: Quantitative X-ray Phase-Contrast CTâ€"An in Vitro Phantom Study. Radiology, 2014, 272, 739-748.	3.6	15
117	Spatial resolution characterization of a X-ray microCT system. Applied Radiation and Isotopes, 2014, 94, 230-234.	0.7	68
118	Anatomy, function, and evolution of jaw and hyobranchial muscles in cryptobranchoid salamander larvae. Journal of Morphology, 2014, 275, 230-246.	0.6	9
119	Applied x-ray computed tomography with high resolution in paleontology using laboratory and synchrotron sources. , 2014, , .		0
120	Energy-resolved visibility analysis of grating interferometers operated at polychromatic X-ray sources. Optics Express, 2014, 22, 30394.	1.7	25
121	Cone-beam differential phase-contrast laminography with x-ray tube source. Europhysics Letters, 2014, 106, 68002.	0.7	12
122	Characterization of the CCD and CMOS cameras for grating-based phase-contrast tomography. Proceedings of SPIE, 2014, , .	0.8	10
123	X-ray phase-contrast tomosynthesis for improved breast tissue discrimination. European Journal of Radiology, 2014, 83, 531-536.	1.2	19
124	Quantitative breast tissue characterization using grating-based x-ray phase-contrast imaging. Physics in Medicine and Biology, 2014, 59, 1557-1571.	1.6	69
125	X-ray phase-contrast imaging of the breastâ€"advances towards clinical implementation. British Journal of Radiology, 2014, 87, 20130606.	1.0	40
126	Phase-Contrast CT: Qualitative and Quantitative Evaluation of Atherosclerotic Carotid Artery Plaque. Radiology, 2014, 271, 870-878.	3.6	62

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127	Helical differential X-ray phase-contrast computed tomography. Physica Medica, 2014, 30, 374-379.	0.4	19
128	Bi-Directional X-Ray Phase-Contrast Mammography. PLoS ONE, 2014, 9, e93502.	1.1	34
129	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
130	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
131	Quantitative X-ray phase-contrast computed tomography at 82 keV. Optics Express, 2013, 21, 4155.	1.7	59
132	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
133	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
134	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
135	Grating-based X-ray phase contrast for biomedical imaging applications. Zeitschrift Fur Medizinische Physik, 2013, 23, 176-185.	0.6	78
136	Unwrapping differential x-ray phase-contrast images through phase estimation from multiple energy data. Optics Express, 2013, 21, 29101.	1.7	19
137	The nanotomography endstation at the PETRA III Imaging Beamline. Journal of Physics: Conference Series, 2013, 425, 182002.	0.3	34
138	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
139	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
140	Improved diagnostic differentiation of renal cystic lesions with phase-contrast computed tomography (PCCT). Proceedings of SPIE, 2012, , .	0.8	0
141	Grating-based tomography of human tissues. AIP Conference Proceedings, 2012, , .	0.3	5
142	Compressed sensing for phase contrast CT. , 2012, , .		1
143	Is solid always best? Cranial performance in solid and fenestrated caecilian skulls. Journal of Experimental Biology, 2012, 215, 833-844.	0.8	29
144	Visualization of subcutaneous insulin injections by x-ray computed tomography. Physics in Medicine and Biology, 2012, 57, 7191-7203.	1.6	22

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145	Morphology of atherosclerotic coronary arteries. Proceedings of SPIE, 2012, , .	0.8	6
146	Compressed sensing for phase-contrast computed tomography. Proceedings of SPIE, 2012, , .	0.8	0
147	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
148	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
149	The female cloaca of an oviparous caecilian amphibian (Gymnophiona): functional and seasonal aspects. Acta Zoologica, 2012, 93, 208-221.	0.6	6
150	Scalable routing easy as PIE: A practical isometric embedding protocol. , 2011, , .		35
151	X-ray grating interferometer for materials-science imaging at a low-coherent wiggler source. Review of Scientific Instruments, 2011, 82, 113711.	0.6	23
152	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
153	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
154	Latest developments in microtomography and nanotomography at PETRA III. Powder Diffraction, 2010, 25, 161-164.	0.4	43
155	X-ray grating interferometer for imaging at a second-generation synchrotron radiation source. Proceedings of SPIE, 2010, , .	0.8	6
156	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
157	The New GKSS Materials Science Beamlines at DESY: Recent Results and Future Options. Materials Science Forum, 2010, 638-642, 2470-2475.	0.3	9
158	Morphology of urethral tissues. Proceedings of SPIE, 2010, , .	0.8	10
159	Micro- and nano-tomography at the GKSS Imaging Beamline at PETRA III. Proceedings of SPIE, 2010, , .	0.8	24
160	Synchrotronâ€microcomputed tomography studies of normal and pathological cranial sutures: further insight. Journal of Neurosurgery: Pediatrics, 2010, 5, 238-242.	0.8	8
161	Mineral distribution in highly fluorotic and in normal teeth: A synchrotron microcomputer tomographic study. Materialwissenschaft Und Werkstofftechnik, 2009, 40, 294-296.	0.5	5
162	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

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163	Quantitative phase-contrast tomography of a liquid phantom using a conventional x-ray tube source. Optics Express, 2009, 17, 10010.	1.7	95
164	High density resolution synchrotron radiation based x-ray microtomography (SR Î¼CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
165	High density resolution in synchrotron-radiation-based attenuation-contrast microtomography. Proceedings of SPIE, 2008, , .	0.8	53
166	The GKSS beamlines at PETRA III and DORIS III. , 2008, , .		2
167	Visualizing the root-PDL-bone interface using high-resolution microtomography. , 2008, , .		0
168	Internal structures of scaffold-free 3D cell cultures visualized by synchrotron radiation-based micro-computed tomography. , 2008, , .		3
169	Comparative micro computed tomography study of a vertebral body. Proceedings of SPIE, 2008, , .	0.8	10
170	Comparison between x-ray tube-based and synchrotron radiation-based Î¼CT. Proceedings of SPIE, 2008, , .	0.8	46
171	SRÎ¼CT study of crack propagation within laser-welded aluminum-alloy T-joints. Proceedings of SPIE, 2008, , .	0.8	3
172	Applying x-ray tomography in the field of vertebrate biology: form, function, and evolution of the skull of caecilians (Lissamphibia: Gymnophiona). , 2008, , .		12
173	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
174	Xâ€ray Stain Localization with Nearâ€Field Ptychographic Computed Tomography. Advanced Science, 0, , 2201723.	5.6	2