

Franz Pfeiffer

List of Publications by Year in descending order

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268
papers

14,061
citations

43617

47
h-index

23631

109
g-index

297
all docs

297
docs citations

297
times ranked

8156
citing authors

#	ARTICLE	IF	CITATIONS
1	Correction for Mechanical Inaccuracies in a Scanning Talbot-Lau Interferometer. IEEE Transactions on Medical Imaging, 2024, 43, 28-38.	9.1	1
2	X-Ray Dark-Field Signal Reduction Due to Hardening of the Visibility Spectrum. IEEE Transactions on Medical Imaging, 2024, 43, 1422-1433.	9.1	1
3	Correction for X-Ray Scatter and Detector Crosstalk in Dark-Field Radiography. IEEE Transactions on Medical Imaging, 2024, 43, 2646-2656.	9.1	2
4	Improving Automated Hemorrhage Detection at Sparse-View CT via U-Net-based Artifact Reduction. Radiology: Artificial Intelligence, 2024, 6, .	7.2	1
5	Robust Sample Information Retrieval in Dark-Field Computed Tomography with a Vibrating Talbot-Lau Interferometer. IEEE Transactions on Medical Imaging, 2024, , 1-1.	9.1	0
6	Feasibility of Dark-Field Radiography to Enhance Detection of Nondisplaced Fractures. Radiology, 2024, 311, .	8.5	0
7	Technical Design Considerations of a Human-Scale Talbot-Lau Interferometer for Dark-Field CT. IEEE Transactions on Medical Imaging, 2023, 42, 220-232.	9.1	6
8	Modeling Vibrations of a Tiled Talbot-Lau Interferometer on a Clinical CT. IEEE Transactions on Medical Imaging, 2023, 42, 774-784.	9.1	7
9	Initial Characterization of Dark-Field CT on a Clinical Gantry. IEEE Transactions on Medical Imaging, 2023, 42, 1035-1045.	9.1	7
10	WNet: A Data-Driven Dual-Domain Denoising Model for Sparse-View Computed Tomography With a Trainable Reconstruction Layer. IEEE Transactions on Computational Imaging, 2023, 9, 120-132.	4.5	16
11	Advanced Phase-Retrieval for Stepping-Free X-Ray Dark-Field Computed Tomography. IEEE Transactions on Medical Imaging, 2023, 42, 2876-2885.	9.1	3
12	Qualitative and Quantitative Assessment of Emphysema Using Dark-Field Chest Radiography. Radiology, 2022, 303, 119-127.	8.5	26
13	Dark-field computed tomography reaches the human scale. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.5	57
14	Fabrication of X-ray absorption gratings by centrifugal deposition of bimodal tungsten particles in high aspect ratio silicon templates. Scientific Reports, 2022, 12, 5405.	3.4	4
15	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency. European Radiology Experimental, 2022, 6, 9.	3.6	6
16	X-ray Dark-Field CT for Early Detection of Radiation-induced Lung Injury in a Murine Model. Radiology, 2022, 303, 696-698.	8.5	5
17	X-ray Stain Localization with Near-Field Ptychographic Computed Tomography. Advanced Science, 2022, 9, .	12.3	4
18	X-ray computed tomography with seven degree of freedom robotic sample holder. Engineering Research Express, 2022, 4, 035022.	1.6	6

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19	Multi-Scale Investigation of Human Renal Tissue in Three Dimensions. IEEE Transactions on Medical Imaging, 2022, 41, 3489-3497.	9.1	3
20	Dark-field chest X-ray imaging for the assessment of COVID-19-pneumonia. Communications Medicine, 2022, 2, .	4.2	11
21	Assessment of Inflation in a Human Cadaveric Lung with Dark-Field Chest Radiography. Radiology: Cardiothoracic Imaging, 2022, 4, .	2.2	2
22	Opportunistic osteoporosis screening: contrast-enhanced dual-layer spectral CT provides accurate measurements of vertebral bone mineral density. European Radiology, 2021, 31, 3147-3155.	4.6	17
23	Experimental and numerical analysis of void structure in random packed beds of spheres. Powder Technology, 2021, 380, 613-628.	4.3	32
24	Early detection of radiation-induced lung damage with X-ray dark-field radiography in mice. European Radiology, 2021, 31, 4175-4183.	4.6	7
25	3D Non-destructive Imaging through Heavy-Metal Eosin Salt Contrast Agents. Chemistry - A European Journal, 2021, 27, 4561-4566.	3.8	9
26	Heterogeneity of Graphite Lithiation in State-of-the-Art Cylinder-Type Li-Ion Cells. Batteries and Supercaps, 2021, 4, 327-335.	5.0	10
27	Whole-body x-ray dark-field radiography of a human cadaver. European Radiology Experimental, 2021, 5, 6.	3.6	11
28	Quantitative X-ray phase contrast computed tomography with grating interferometry. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 4171-4188.	6.6	22
29	Detection of Bone Marrow Edema in Patients with Osteoid Osteoma Using Three-Material Decomposition with Dual-Layer Spectral CT. Diagnostics, 2021, 11, 953.	2.8	5
30	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.	9.1	4
31	Correlation of image quality parameters with tube voltage in X-ray dark-field chest radiography: a phantom study. Scientific Reports, 2021, 11, 14130.	3.4	4
32	X-ray dark-field tomography reveals tooth cracks. Scientific Reports, 2021, 11, 14017.	3.4	8
33	Lung nodule detection in chest X-rays using synthetic ground-truth data comparing CNN-based diagnosis to human performance. Scientific Reports, 2021, 11, 15857.	3.4	18
34	Dosimetry on first clinical dark-field chest radiography. Medical Physics, 2021, 48, 6152-6159.	2.9	10
35	X-ray Dark-Field Chest Imaging: Qualitative and Quantitative Results in Healthy Humans. Radiology, 2021, 301, 389-395.	8.5	52
36	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.	2.8	11

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37	Laboratory-scale <i>in situ</i> X-ray absorption spectroscopy of a palladium catalyst on a compact inverse-Compton scattering X-ray beamline. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2649-2659.	2.6	4
38	Signal Retrieval from Non-Sinusoidal Intensity Modulations in X-ray and Neutron Interferometry Using Piecewise-Defined Polynomial Function. <i>Journal of Imaging</i> , 2021, 7, 209.	3.1	1
39	Fabrication of x-ray absorption gratings via deep x-ray lithography using a conventional x-ray tube. <i>Journal of Micro-nanopatterning, Materials, and Metrology</i> , 2021, 20, .	0.9	4
40	X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study. <i>The Lancet Digital Health</i> , 2021, 3, e733-e744.	11.3	89
41	Comparison of Thermal Neutron and Hard X-ray Dark-Field Tomography. <i>Journal of Imaging</i> , 2021, 7, 1.	3.1	2
42	Simultaneous two-color X-ray absorption spectroscopy using Laue crystals at an inverse-compton scattering X-ray facility. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1874-1880.	2.4	0
43	On the Mechanism of Catalytic Decarboxylation of Carboxylic Acids on Carbon-Supported Palladium Hydride. <i>ACS Catalysis</i> , 2021, 11, 14625-14634.	11.5	14
44	Retrieval of 3D information in X-ray dark-field imaging with a large field of view. <i>Scientific Reports</i> , 2021, 11, 23504.	3.4	3
45	A proof of principle experiment for microbeam radiation therapy at the Munich compact light source. <i>Radiation and Environmental Biophysics</i> , 2020, 59, 111-120.	1.4	15
46	Towards subject-level cerebral infarction classification of CT scans using convolutional networks. <i>PLoS ONE</i> , 2020, 15, e0235765.	2.5	2
47	Imaging characteristics of intravascular spherical contrast agents for grating-based x-ray dark-field imaging – effects of concentrations, spherical sizes and applied voltage. <i>Scientific Reports</i> , 2020, 10, 9405.	3.4	5
48	Dynamic K-edge Subtraction Fluoroscopy at a Compact Inverse-Compton Synchrotron X-ray Source. <i>Scientific Reports</i> , 2020, 10, 9612.	3.4	8
49	A robust convolutional neural network for lung nodule detection in the presence of foreign bodies. <i>Scientific Reports</i> , 2020, 10, 12987.	3.4	26
50	A proof-of principal study using phase-contrast imaging for the detection of large airway pathologies after lung transplantation. <i>Scientific Reports</i> , 2020, 10, 18444.	3.4	3
51	Technical and dosimetric realization of <i>in vivo</i> x-ray microbeam irradiations at the Munich Compact Light Source. <i>Medical Physics</i> , 2020, 47, 5183-5193.	2.9	4
52	Grating-based spectral X-ray dark-field imaging for correlation with structural size measures. <i>Scientific Reports</i> , 2020, 10, 13195.	3.4	16
53	X-ray Dark-Field Radiography. <i>Investigative Radiology</i> , 2020, 55, 494-498.	6.3	11
54	Photon-counting spectral basis component material decomposition for musculoskeletal radiographs. <i>Scientific Reports</i> , 2020, 10, 13889.	3.4	3

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55	MCL-1 gains occur with high frequency in lung adenocarcinoma and can be targeted therapeutically. Nature Communications, 2020, 11, 4527.	13.0	36
56	Energy-Dispersive X-ray Absorption Spectroscopy with an Inverse Compton Source. Scientific Reports, 2020, 10, 8772.	3.4	28
57	Nanosopic X-ray tomography for correlative microscopy of a small meiofaunal sea-cucumber. Scientific Reports, 2020, 10, 3960.	3.4	11
58	Qualitative comparison of non-destructive methods for inspection of carbon fiber-reinforced polymer laminates. Journal of Composite Materials, 2020, 54, 4325-4337.	2.4	16
59	A high visibility Talbot-Lau neutron grating interferometer to investigate stress-induced magnetic degradation in electrical steel. Scientific Reports, 2020, 10, 1764.	3.4	24
60	An approach to construct a three-dimensional isogeometric model from $\hat{1}/4$ -CT scan data with an application to the bridge of a violin. Computer Aided Geometric Design, 2020, 78, 101815.	1.3	3
61	Grating-based phase-contrast CT (PCCT): histopathological correlation of human liver cirrhosis and hepatocellular carcinoma specimen. Journal of Clinical Pathology, 2020, 73, 483-487.	2.2	6
62	Advanced X-ray Imaging Technology. Recent Results in Cancer Research, 2020, 216, 3-30.	0.0	18
63	Spectroscopic imaging at compact inverse Compton X-ray sources. Physica Medica, 2020, 79, 137-144.	0.7	7
64	Spectral-detector based x-ray absorptiometry (SDXA): in-vivo bone mineral density measurements in patients with and without osteoporotic fractures. Biomedical Physics and Engineering Express, 2020, 6, 055021.	1.2	4
65	Phase-Vortex Removal for Quantitative X-Ray Nanotomography with Near-Field Ptychography. Physical Review Applied, 2020, 14, .	3.8	3
66	Methods for dynamic synchrotron X-ray respiratory imaging in live animals. Journal of Synchrotron Radiation, 2020, 27, 164-175.	2.4	25
67	The versatile X-ray beamline of the Munich Compact Light Source: design, instrumentation and applications. Journal of Synchrotron Radiation, 2020, 27, 1395-1414.	2.4	44
68	K-edge subtraction imaging for iodine and calcium separation at a compact synchrotron x-ray source. Journal of Medical Imaging, 2020, 7, 1.	1.6	6
69	X-ray phase tomography with near-field speckles for three-dimensional virtual histology. Optica, 2020, 7, 1221.	9.2	40
70	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.	1.6	0
71	Quantitative dual-energy micro-CT with a photon-counting detector for material science and non-destructive testing. PLoS ONE, 2019, 14, e0219659.	2.5	18
72	Optimization of tube voltage in X-ray dark-field chest radiography. Scientific Reports, 2019, 9, 8699.	3.4	30

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73	Multimodal Precision Imaging of Pulmonary Nanoparticle Delivery in Mice: Dynamics of Application, Spatial Distribution, and Dosimetry. <i>Small</i> , 2019, 15, e1904112.	11.0	23
74	Optimization of in vivo murine X-ray dark-field computed tomography. <i>Review of Scientific Instruments</i> , 2019, 90, 103103.	1.4	3
75	Dynamic Quantitative Iodine Myocardial Perfusion Imaging with Dual-Layer CT using a Porcine Model. <i>Scientific Reports</i> , 2019, 9, 16046.	3.4	5
76	3D Imaging of Soft-Tissue Samples using an X-ray Specific Staining Method and Nanoscopic Computed Tomography. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	2
77	Functional morphology of a lobopod: case study of an onychophoran leg. <i>Royal Society Open Science</i> , 2019, 6, 191200.	2.5	12
78	Imaging features in post-mortem x-ray dark-field chest radiographs and correlation with conventional x-ray and CT. <i>European Radiology Experimental</i> , 2019, 3, 25.	3.6	21
79	K-edge Subtraction Computed Tomography with a Compact Synchrotron X-ray Source. <i>Scientific Reports</i> , 2019, 9, 13332.	3.4	17
80	X-ray imaging of a water bear offers a new look at tardigrade internal anatomy. <i>Zoological Letters</i> , 2019, 5, 14.	1.3	23
81	Visualizing treatment delivery and deposition in mouse lungs using in vivo x-ray imaging. <i>Journal of Controlled Release</i> , 2019, 307, 282-291.	10.2	29
82	Contrast-to-noise ratios and thickness-normalized, ventilation-dependent signal levels in dark-field and conventional in vivo thorax radiographs of two pigs. <i>PLoS ONE</i> , 2019, 14, e0217858.	2.5	12
83	Full-field structured-illumination super-resolution X-ray transmission microscopy. <i>Nature Communications</i> , 2019, 10, 2494.	13.0	12
84	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. <i>European Radiology</i> , 2019, 29, 6355-6363.	4.6	49
85	Paleometry as a key tool to deal with paleobiological and astrobiological issues: some contributions and reflections on the Brazilian fossil record. <i>International Journal of Astrobiology</i> , 2019, 18, 575-589.	1.5	5
86	Perfusion-ventilation CT via three-material differentiation in dual-layer CT: a feasibility study. <i>Scientific Reports</i> , 2019, 9, 5837.	3.4	9
87	Metric-guided regularisation parameter selection for statistical iterative reconstruction in computed tomography. <i>Scientific Reports</i> , 2019, 9, 6016.	3.4	5
88	A step towards valid detection and quantification of lung cancer volume in experimental mice with contrast agent-based X-ray microtomography. <i>Scientific Reports</i> , 2019, 9, 1325.	3.4	19
89	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. <i>PLoS ONE</i> , 2019, 14, e0212106.	2.5	9
90	Differentiation between blood and iodine in a bovine brainâ€”Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). <i>PLoS ONE</i> , 2019, 14, e0212679.	2.5	28

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91	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. <i>European Radiology</i> , 2019, 29, 4624-4634.	4.6	21
92	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. <i>PLoS ONE</i> , 2019, 14, e0210291.	2.5	20
93	Device for source position stabilization and beam parameter monitoring at inverse Compton X-ray sources. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1546-1553.	2.4	12
94	Quality and parameter control of X-ray absorption gratings by angular X-ray transmission. <i>Optics Express</i> , 2019, 27, 15943.	3.3	9
95	Three-dimensional virtual histology enabled through cytoplasm-specific X-ray stain for microscopic and nanoscopic computed tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2293-2298.	7.5	94
96	Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. <i>European Radiology</i> , 2018, 28, 3318-3325.	4.6	81
97	Propagation-based phase-contrast x-ray tomography of cochlea using a compact synchrotron source. <i>Scientific Reports</i> , 2018, 8, 4922.	3.4	21
98	Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. <i>Scientific Reports</i> , 2018, 8, 2602.	3.4	32
99	Incorporating a Noise Reduction Technique Into X-Ray Tensor Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 137-146.	4.5	4
100	Dual-energy CT: a phantom comparison of different platforms for abdominal imaging. <i>European Radiology</i> , 2018, 28, 2745-2755.	4.6	119
101	X-Ray Dark-field Imaging to Depict Acute Lung Inflammation in Mice. <i>Scientific Reports</i> , 2018, 8, 2096.	3.4	25
102	Assessment of quantification accuracy and image quality of a full-body dual-layer spectral CT system. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 204-217.	1.8	66
103	X-ray ptychography. <i>Nature Photonics</i> , 2018, 12, 9-17.	23.0	468
104	Tilted grating phase-contrast computed tomography using statistical iterative reconstruction. <i>Scientific Reports</i> , 2018, 8, 6608.	3.4	4
105	Qualitative and Quantitative Evaluation of Structural Myocardial Alterations by Grating-Based Phase-Contrast Computed Tomography. <i>Investigative Radiology</i> , 2018, 53, 26-34.	6.3	12
106	Laboratory-based X-ray NanoCT Explores Morphology of a Zebrafish Embryo. <i>Microscopy and Microanalysis</i> , 2018, 24, 184-185.	0.4	4
107	The Munich Compact Light Source: Flux Doubling and Source Position Stabilization At a Compact Inverse-Compton Synchrotron X-ray Source.. <i>Microscopy and Microanalysis</i> , 2018, 24, 316-317.	0.4	5
108	Nucleus-specific X-ray stain for 3D virtual histology. <i>Scientific Reports</i> , 2018, 8, 17855.	3.4	41

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109	Bismuth-Oxo-Clusters for Soft-Tissue Staining. <i>Microscopy and Microanalysis</i> , 2018, 24, 368-369.	0.4	0
110	Dual-layer spectral computed tomography: measuring relative electron density. <i>European Radiology Experimental</i> , 2018, 2, 20.	3.6	22
111	K-edge subtraction imaging for coronary angiography with a compact synchrotron X-ray source. <i>PLoS ONE</i> , 2018, 13, e0208446.	2.5	30
112	Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. <i>Scientific Reports</i> , 2018, 8, 17386.	3.4	57
113	Direct quantitative material decomposition employing grating-based X-ray phase-contrast CT. <i>Scientific Reports</i> , 2018, 8, 16394.	3.4	32
114	Brain Connectivity Exposed by Anisotropic X-ray Dark-field Tomography. <i>Scientific Reports</i> , 2018, 8, 14345.	3.4	18
115	X-ray dark-field imaging of the human lung – A feasibility study on a deceased body. <i>PLoS ONE</i> , 2018, 13, e0204565.	2.5	78
116	GPU Accelerated Image Processing in CCD-Based Neutron Imaging. <i>Journal of Imaging</i> , 2018, 4, 104.	3.1	2
117	Dose-compatible grating-based phase-contrast mammography on mastectomy specimens using a compact synchrotron source. <i>Scientific Reports</i> , 2018, 8, 15700.	3.4	17
118	High resolution laboratory grating-based X-ray phase-contrast CT. <i>Scientific Reports</i> , 2018, 8, 15884.	3.4	26
119	Spectral Angiography Material Decomposition Using an Empirical Forward Model and a Dictionary-Based Regularization. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2298-2309.	9.1	16
120	Dual-layer spectral computed tomography: Virtual non-contrast in comparison to true non-contrast images. <i>European Journal of Radiology</i> , 2018, 104, 108-114.	2.7	88
121	X-ray dark-field contrast imaging of water transport during hydration and drying of early-age cement-based materials. <i>Materials Characterization</i> , 2018, 142, 560-576.	4.4	11
122	Analysis and correction of bias induced by phase stepping jitter in grating-based X-ray phase-contrast imaging. <i>Optics Express</i> , 2018, 26, 12707.	3.3	23
123	Accurate effective atomic number determination with polychromatic grating-based phase-contrast computed tomography. <i>Optics Express</i> , 2018, 26, 15153.	3.3	25
124	Electron Density of Adipose Tissues Determined by Phase-Contrast Computed Tomography Provides a Measure for Mitochondrial Density and Fat Content. <i>Frontiers in Physiology</i> , 2018, 9, 707.	2.8	13
125	CT scanning of membrane feed spacers – Impact of spacer model accuracy on hydrodynamic and solute transport modeling in membrane feed channels. <i>Journal of Membrane Science</i> , 2018, 564, 133-145.	8.2	23
126	Simultaneous wood and metal particle detection on dark-field radiography. <i>European Radiology Experimental</i> , 2018, 2, 1.	3.6	38

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127	In vivo Dynamic Phase-Contrast X-ray Imaging using a Compact Light Source. Scientific Reports, 2018, 8, 6788.	3.4	30
128	The Munich Compact Light Source: Biomedical Research At a Laboratory-Scale Inverse-Compton Synchrotron X-ray Source. Microscopy and Microanalysis, 2018, 24, 984-985.	0.4	4
129	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.	2.9	2
130	Large field-of-view tiled grating structures for X-ray phase-contrast imaging. Review of Scientific Instruments, 2017, 88, 015104.	1.4	39
131	Fourier domain image fusion for differential X-ray phase-contrast breast imaging. European Journal of Radiology, 2017, 89, 27-32.	2.7	7
132	Mono-Energy Coronary Angiography with a Compact Synchrotron Source. Scientific Reports, 2017, 7, 42211.	3.4	25
133	Large-area full field x-ray differential phase-contrast imaging using 2D tiled gratings. Journal Physics D: Applied Physics, 2017, 50, 225401.	2.9	15
134	Grating-based X-ray dark-field computed tomography for the characterization of friction stir welds: A feasibility study. Materials Characterization, 2017, 129, 143-148.	4.4	12
135	Ex Vivo Assessment of Coronary Atherosclerotic Plaque by Grating-Based Phase-Contrast Computed Tomography. Investigative Radiology, 2017, 52, 223-231.	6.3	8
136	Disorientation angle distribution of primary particles in potash alum aggregates. Journal of Crystal Growth, 2017, 467, 93-106.	1.6	10
137	X-ray Dark-field Radiography - In-Vivo Diagnosis of Lung Cancer in Mice. Scientific Reports, 2017, 7, 402.	3.4	66
138	Spectral Photon-counting CT: Initial Experience with Dual-Contrast Agent K-Edge Colonography. Radiology, 2017, 283, 723-728.	8.5	118
139	Ex vivo characterization of pathologic fluids with quantitative phase-contrast computed tomography. European Journal of Radiology, 2017, 86, 99-104.	2.7	3
140	Dark-field imaging in coronary atherosclerosis. European Journal of Radiology, 2017, 94, 38-45.	2.7	7
141	X-ray dark-field radiography facilitates the diagnosis of pulmonary fibrosis in a mouse model. Scientific Reports, 2017, 7, 340.	3.4	25
142	Propagation-based Phase-Contrast X-ray Imaging at a Compact Light Source. Scientific Reports, 2017, 7, 4908.	3.4	39
143	Grating-based phase-contrast and dark-field computed tomography: a single-shot method. Scientific Reports, 2017, 7, 7476.	3.4	35
144	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. Scientific Reports, 2017, 7, 17519.	3.4	35

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145	Trabecular bone anisotropy imaging with a compact laser-undulator synchrotron x-ray source. <i>Scientific Reports</i> , 2017, 7, 14477.	3.4	28
146	Myoanatomy of the velvet worm leg revealed by laboratory-based nanofocus X-ray source tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12378-12383.	7.5	53
147	Is multidetector CT-based bone mineral density and quantitative bone microstructure assessment at the spine still feasible using ultra-low tube current and sparse sampling?. <i>European Radiology</i> , 2017, 27, 5261-5271.	4.6	47
148	In-vivo X-ray Dark-Field Chest Radiography of a Pig. <i>Scientific Reports</i> , 2017, 7, 4807.	3.4	85
149	Non-iterative Directional Dark-field Tomography. <i>Scientific Reports</i> , 2017, 7, 3307.	3.4	21
150	Dual-energy micro-CT for quantifying the time-course and staining characteristics of ex-vivo animal organs treated with iodine- and gadolinium-based contrast agents. <i>Scientific Reports</i> , 2017, 7, 17387.	3.4	16
151	Dual-energy micro-CT with a dual-layer, dual-color, single-crystal scintillator. <i>Optics Express</i> , 2017, 25, 6924.	3.3	8
152	Advanced Non-Destructive Ocular Visualization Methods by Improved X-Ray Imaging Techniques. <i>PLoS ONE</i> , 2017, 12, e0170633.	2.5	8
153	Revising the lower statistical limit of x-ray grating-based phase-contrast computed tomography. <i>PLoS ONE</i> , 2017, 12, e0184217.	2.5	4
154	Increased cell survival and cytogenetic integrity by spatial dose redistribution at a compact synchrotron X-ray source. <i>PLoS ONE</i> , 2017, 12, e0186005.	2.5	13
155	Simultaneous dual-contrast multi-phase liver imaging using spectral photon-counting computed tomography: a proof-of-concept study. <i>European Radiology Experimental</i> , 2017, 1, 25.	3.6	63
156	Low-dose, phase-contrast mammography with high signal-to-noise ratio. <i>Biomedical Optics Express</i> , 2016, 7, 381.	2.9	18
157	X-ray deconvolution microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 1227.	2.9	10
158	Facilitated Diagnosis of Pneumothoraces in Newborn Mice Using X-ray Dark-Field Radiography. <i>Investigative Radiology</i> , 2016, 51, 597-601.	6.3	40
159	Improved Diagnostics by Assessing the Micromorphology of Breast Calcifications via X-Ray Dark-Field Radiography. <i>Scientific Reports</i> , 2016, 6, 36991.	3.4	29
160	Hard X-ray phase-contrast tomography of non-homogeneous specimens: grating interferometry versus propagation-based imaging. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1202-1209.	2.4	14
161	Visualization of neonatal lung injury associated with mechanical ventilation using x-ray dark-field radiography. <i>Scientific Reports</i> , 2016, 6, 24269.	3.4	38
162	Novelty detection of foreign objects in food using multi-modal X-ray imaging. <i>Food Control</i> , 2016, 67, 39-47.	5.6	59

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163	AHA classification of coronary and carotid atherosclerotic plaques by grating-based phase-contrast computed tomography. <i>European Radiology</i> , 2016, 26, 3223-3233.	4.6	41
164	Dentinal tubules revealed with X-ray tensor tomography. <i>Dental Materials</i> , 2016, 32, 1189-1195.	3.5	30
165	The Munich Compact Light Source: initial performance measures. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1137-1142.	2.4	140
166	Hydrophobic Properties of Biofilm-Enriched Hybrid Mortar. <i>Advanced Materials</i> , 2016, 28, 8138-8143.	24.0	41
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