

Zhentian Wang

List of Publications by Year in descending order

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61
papers

1,388
citations

430874

18
h-index

345221

36
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all docs

61
docs citations

61
times ranked

1525
citing authors

#	ARTICLE	IF	CITATIONS
1	INSIDEnet: Interpretable Nonexpansive Data-efficient network for denoising in grating interferometry breast CT. <i>Medical Physics</i> , 2022, 49, 3729-3748.	3.0	3
2	Intensity-based iterative reconstruction for helical grating interferometry breast CT with static grating configuration. <i>Optics Express</i> , 2022, 30, 13847.	3.4	5
3	Iterative signal retrieval for X-ray grating interferometry with dual-shot. <i>Journal of X-Ray Science and Technology</i> , 2022, , 1-11.	1.0	0
4	Simultaneous Reciprocal and Real Space X-Ray Imaging of Time-Evolving Systems. <i>Physical Review Applied</i> , 2021, 15, .	3.8	8
5	Fabrication of X-ray Gratings for Interferometric Imaging by Conformal Seedless Gold Electroplating. <i>Micromachines</i> , 2021, 12, 517.	2.9	14
6	High sensitivity X-ray phase contrast imaging by laboratory grating-based interferometry at high Talbot order geometry. <i>Optics Express</i> , 2021, 29, 2049.	3.4	35
7	The classification of renal stones by gratings-based dark-field radiography. <i>Central European Journal of Urology</i> , 2021, 74, 453-458.	0.3	0
8	Towards clinical grating-interferometry mammography. <i>European Radiology</i> , 2020, 30, 1419-1425.	4.5	43
9	Can grating interferometry-based mammography discriminate benign from malignant microcalcifications in fresh biopsy samples?. <i>European Journal of Radiology</i> , 2020, 129, 109077.	2.6	5
10	Characterization of oriented microstructures through anisotropic small-angle scattering by 2D neutron dark-field imaging. <i>Communications Physics</i> , 2020, 3, .	5.3	12
11	Modeling of beam hardening effects in a dual-phase X-ray grating interferometer for quantitative dark-field imaging. <i>Optics Express</i> , 2020, 28, 19187.	3.4	13
12	Diffraction small angle X-ray scattering imaging for anisotropic structures. <i>Nature Communications</i> , 2019, 10, 5130.	12.8	36
13	Microbubbles as a contrast agent in grating interferometry mammography: an ex vivo proof-of-mechanism study. <i>European Radiology Experimental</i> , 2019, 3, 19.	3.4	8
14	Fabrication of Au gratings by seedless electroplating for X-ray grating interferometry. <i>Materials Science in Semiconductor Processing</i> , 2019, 92, 73-79.	4.0	34
15	Three-dimensional visualization of rat retina by X-ray differential phase contrast tomographic microscopy. <i>Microscopy Research and Technique</i> , 2018, 81, 655-662.	2.2	4
16	Dual phase grating interferometer for tunable dark-field sensitivity. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	46
17	High-aspect ratio silicon structures by displacement Talbot lithography and Bosch etching. <i>Proceedings of SPIE</i> , 2017, , .	0.8	18
18	Investigation of suitable biopsy markers for grating-based phase contrast mammography. <i>Journal of Instrumentation</i> , 2017, 12, T01007-T01007.	1.2	2

#	ARTICLE	IF	CITATIONS
19	Circular Unit Cell Gratings for X-ray Dark-Field Imaging. Journal of Physics: Conference Series, 2017, 849, 012053.	0.4	0
20	Sensitivity-based optimization for the design of a grating interferometer for clinical X-ray phase contrast mammography. Optics Express, 2017, 25, 6349.	3.4	25
21	Single shot x-ray phase contrast imaging using a direct conversion microstrip detector with single photon sensitivity. Applied Physics Letters, 2016, 108, .	3.3	14
22	Suppression of Enhancer Overactivation by a RACK7-Histone Demethylase Complex. Cell, 2016, 165, 331-342.	28.9	163
23	Joint absorption and phase retrieval in grating-based x-ray radiography. Optics Express, 2016, 24, 7253.	3.4	5
24	Correspondence: Reply to "Quantitative evaluation of X-ray dark-field images for microcalcification analysis in mammography". Nature Communications, 2016, 7, 10868.	12.8	8
25	A generalized quantitative interpretation of dark-field contrast for highly concentrated microsphere suspensions. Scientific Reports, 2016, 6, 35259.	3.3	27
26	Nono, a Bivalent Domain Factor, Regulates Erk Signaling and Mouse Embryonic Stem Cell Pluripotency. Cell Reports, 2016, 17, 997-1007.	6.4	40
27	2D-Omnidirectional Hard-X-Ray Scattering Sensitivity in a Single Shot. Physical Review Letters, 2016, 116, 093902.	7.8	45
28	Grating-based interferometry and hybrid photon counting detectors: Towards a new era in X-ray medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 809, 23-30.	1.6	10
29	Micrometer-resolution imaging using $M\tilde{A}$ -NCH: towards $G^{2₂}$ -less grating interferometry. Journal of Synchrotron Radiation, 2016, 23, 1462-1473.	2.4	53
30	Quantitative volumetric breast density estimation using phase contrast mammography. Physics in Medicine and Biology, 2015, 60, 4123-4135.	3.0	11
31	Spline based iterative phase retrieval algorithm for X-ray differential phase contrast radiography. Optics Express, 2015, 23, 10631.	3.4	10
32	Tilted-grating approach for scanning-mode X-ray phase contrast imaging. Optics Express, 2014, 22, 15447.	3.4	21
33	Simple merging technique for improving resolution in qualitative single image phase contrast tomography. Optics Express, 2014, 22, 27257.	3.4	14
34	Non-invasive classification of microcalcifications with phase-contrast X-ray mammography. Nature Communications, 2014, 5, 3797.	12.8	110
35	A Study on Mastectomy Samples to Evaluate Breast Imaging Quality and Potential Clinical Relevance of Differential Phase Contrast Mammography. Investigative Radiology, 2014, 49, 131-137.	6.2	57
36	Mathematical Methods and Applications in Medical Imaging. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-2.	1.3	2

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37	Noise-Analysis-Based Non-Local Means Method for X-ray Grating-Based Mammography Denoising. IEEE Transactions on Nuclear Science, 2013, 60, 802-809.	2.0	5
38	Human hand radiography using X-ray differential phase contrast combined with dark-field imaging. Skeletal Radiology, 2013, 42, 827-835.	2.0	39
39	Reconstruction method incorporating the object-position dependence of visibility loss in dark-field imaging. Proceedings of SPIE, 2013, , .	0.8	7
40	Wavelet-based noise-model driven denoising algorithm for differential phase contrast mammography. Optics Express, 2013, 21, 10572.	3.4	12
41	Quantitative x-ray radiography using grating interferometry: a feasibility study. Physics in Medicine and Biology, 2013, 58, 6815-6826.	3.0	16
42	Toward clinical differential phase contrast mammography: preliminary evaluations and image processing schemes. Journal of Instrumentation, 2013, 8, C05009-C05009.	1.2	15
43	Image fusion scheme for differential phase contrast mammography. Journal of Instrumentation, 2013, 8, C07011-C07011.	1.2	18
44	Phase-contrast enhanced mammography: A new diagnostic tool for breast imaging. , 2012, , .		0
45	Multi-scale image fusion for x-ray grating-based mammography. , 2012, , .		1
46	Image fusion algorithm for differential phase contrast imaging. , 2012, , .		14
47	GAMOS: An easy and flexible way to use GEANT4. , 2011, , .		12
48	Non-linear regularized phase retrieval for unidirectional X-ray differential phase contrast radiography. Optics Express, 2011, 19, 25545.	3.4	49
49	The First Analysis and Clinical Evaluation of Native Breast Tissue Using Differential Phase-Contrast Mammography. Investigative Radiology, 2011, 46, 801-806.	6.2	228
50	Low-dose multiple-information retrieval algorithm for X-ray grating-based imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, 103-107.	1.6	20
51	Low dose reconstruction algorithm for differential phase contrast imaging. Journal of X-Ray Science and Technology, 2011, 19, 403-415.	1.0	16
52	Large phase-stepping approach for high-resolution hard X-ray grating-based multiple-information imaging. Optics Express, 2010, 18, 10222.	3.4	11
53	Attenuation-refraction-scattering computed tomographic experimental system with a conventional X-ray tube: System optimization & image fusion. , 2009, , .		1
54	Linear partial derivative matrix for iterative algorithm to reconstruct refractive index from refraction angle data. , 2009, , .		0

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55	Differential Phase-Contrast Imaging Experimental System Under the Incoherent Condition With Conventional X-Ray Tubes. IEEE Transactions on Nuclear Science, 2009, 56, 1438-1443.	2.0	4
56	Implement X-ray refraction effect in Geant4 for phase contrast imaging. , 2009, , .		6
57	Fast X-Ray Phase-Contrast Imaging Using High Resolution Detector. IEEE Transactions on Nuclear Science, 2009, 56, 1383-1388.	2.0	11
58	X-ray phase contrast computed tomographic elementary experiments under incoherent conditions. , 2008, , .		0
59	Differential phase-contrast tomosynthetic experimental system with weakly coherent hard X-rays. , 2008, , .		1
60	Picture comparison binarization method for cosmic ray muon radiography. , 2008, , .		1
61	Bayesian reconstructions with PDE image model for emission tomography. , 2007, , .		0