Marie-Christine Zdora

List of Publications by Year in descending order

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623734 552781 45 708 14 26 citations g-index h-index papers 49 49 49 650 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Speckle-Based X-Ray Phase-Contrast and Dark-Field Imaging with a Laboratory Source. Physical Review Letters, 2014, 112, 253903.	7.8	149
2	X-ray Phase-Contrast Imaging and Metrology through Unified Modulated Pattern Analysis. Physical Review Letters, 2017, 118, 203903.	7.8	78
3	State of the Art of X-ray Speckle-Based Phase-Contrast and Dark-Field Imaging. Journal of Imaging, 2018, 4, 60.	3.0	76
4	Speckle-based x-ray phase-contrast imaging with a laboratory source and the scanning technique. Optics Letters, 2015, 40, 2822.	3.3	42
5	Validation of diffusion tensor MRI measurements of cardiac microstructure with structure tensor synchrotron radiation imaging. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 31.	3.3	42
6	Megahertz x-ray microscopy at x-ray free-electron laser and synchrotron sources. Optica, 2019, 6, 1106.	9.3	41
7	X-ray phase tomography with near-field speckles for three-dimensional virtual histology. Optica, 2020, 7, 1221.	9.3	37
8	X-ray microtomography using correlation of near-field speckles for material characterization. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12569-12573.	7.1	33
9	Simulations of x-ray speckle-based dark-field and phase-contrast imaging with a polychromatic beam. Journal of Applied Physics, 2015, 118, .	2.5	32
10	X-ray phase microtomography with a single grating for high-throughput investigations of biological tissue. Biomedical Optics Express, 2017, 8, 1257.	2.9	19
11	An achromatic X-ray lens. Nature Communications, 2022, 13, 1305.	12.8	19
12	Advances in indirect detector systems for ultra high-speed hard X-ray imaging with synchrotron light. Journal of Instrumentation, 2018, 13, C04004-C04004.	1.2	18
13	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.	3.3	17
14	Functional and multiscale 3D structural investigation of brain tissue through correlative in vivo physiology, synchrotron microtomography and volume electron microscopy. Nature Communications, 2022, 13, .	12.8	17
15	Noise analysis of speckle-based x-ray phase-contrast imaging. Optics Letters, 2016, 41, 5490.	3.3	15
16	At-wavelength optics characterisation via X-ray speckle- and grating-based unified modulated pattern analysis. Optics Express, 2018, 26, 4989.	3.4	11
17	X-ray phase imaging with the unified modulated pattern analysis of near-field speckles at a laboratory source. Applied Optics, 2020, 59, 2270.	1.8	11
18	Tunable X-ray speckle-based phase-contrast and dark-field imaging using the unified modulated pattern analysis approach. Journal of Instrumentation, 2018, 13, C05005-C05005.	1.2	8

#	Article	IF	CITATIONS
19	Multimodal imaging of the human knee down to the cellular level. Journal of Physics: Conference Series, 2017, 849, 012026.	0.4	5
20	Characterisation of speckle-based X-ray phase-contrast imaging. Journal of Physics: Conference Series, 2017, 849, 012024.	0.4	4
21	Fast Multi-scale imaging using the Beamline I13L at the Diamond Light Source. , 2019, , .		4
22	Hierarchical imaging of the human knee. , 2016, , .		3
23	X-ray micro-tomography for investigations of brain tissues on cellular level. , 2016, , .		3
24	Comparison of laboratory grating-based and speckle-tracking x-ray phase-contrast imaging. Journal of Physics: Conference Series, 2017, 849, 012035.	0.4	3
25	Assessing Myocardial Microstructure With Biophysical Models of Diffusion MRI. IEEE Transactions on Medical Imaging, 2021, 40, 3775-3786.	8.9	3
26	Multi-scale imaging at the diamond beamline I13. AIP Conference Proceedings, 2019, , .	0.4	2
27	Micro- and nano-tomography at the DIAMOND beamline I $13L$ imaging and coherence. , $2017, , .$		2
28	Simulations of multi-contrast x-ray imaging using near-field speckles. AIP Conference Proceedings, 2016, , .	0.4	1
29	Hard X-ray submicrometer tomography of human brain tissue at Diamond Light Source. Journal of Physics: Conference Series, 2017, 849, 012030.	0.4	1
30	Multi-Scale Imaging at the Coherence and Imaging Beamline I13 at Diamond. Microscopy and Microanalysis, 2018, 24, 256-257.	0.4	1
31	Advanced X-ray phase-contrast and dark-field imaging with the unified modulated pattern analysis (UMPA). Microscopy and Microanalysis, 2018, 24, 22-23.	0.4	1
32	X-ray speckle-based phase-contrast imaging: principle and applications. , 2021, , .		1
33	Comparison of data processing techniques for single-grating x-ray Talbot interferometer data. , 2017, ,		1
34	Cold and Thermal Neutron Single Grating Dark-Field Imaging Extended to an Inverse Pattern Regime. Applied Sciences (Switzerland), 2022, 12, 2798.	2.5	1
35	Micro- and nano-imaging at the diamond beamline I13L-imaging and coherence. AIP Conference Proceedings, 2016, , .	0.4	O
36	Computational cell quantification in the human brain tissues based on hard x-ray phase-contrast tomograms. Proceedings of SPIE, 2016, , .	0.8	0

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#	Article	IF	Citations
37	Principles of X-ray Imaging. Springer Theses, 2021, , 11-57.	0.1	O
38	X-ray Single-Grating Interferometry. Springer Theses, 2021, , 69-111.	0.1	0
39	3D Virtual Histology Using X-ray Speckle with the Unified Modulated Pattern Analysis. Springer Theses, 2021, , 215-257.	0.1	O
40	Principles and State of the Art of X-ray Speckle-Based Imaging. Springer Theses, 2021, , 113-164.	0.1	0
41	Recent Developments and Ongoing Work in X-ray Speckle-Based Imaging. Springer Theses, 2021, , 259-313.	0.1	O
42	The Unified Modulated Pattern Analysis. Springer Theses, 2021, , 165-193.	0.1	0
43	At-Wavelength Optics Characterisation via X-ray Speckle- and Grating-Based Unified Modulated Pattern Analysis. Springer Theses, 2021, , 195-214.	0.1	O
44	The imaging and coherence beamline I13L at DIAMOND (Conference Presentation)., 2017,,.		0
45	New imaging opportunities at the DIAMOND beamline I13L. , 2019, , .		O