

Marie-Christine Zdora

List of Publications by Year in descending order

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623734

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49
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49
docs citations

49
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold and Thermal Neutron Single Grating Dark-Field Imaging Extended to an Inverse Pattern Regime. Applied Sciences (Switzerland), 2022, 12, 2798.	2.5	1
2	An achromatic X-ray lens. Nature Communications, 2022, 13, 1305.	12.8	19
3	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
4	Principles of X-ray Imaging. Springer Theses, 2021, , 11-57.	0.1	0
5	Assessing Myocardial Microstructure With Biophysical Models of Diffusion MRI. IEEE Transactions on Medical Imaging, 2021, 40, 3775-3786.	8.9	3
6	X-ray Single-Grating Interferometry. Springer Theses, 2021, , 69-111.	0.1	0
7	3D Virtual Histology Using X-ray Speckle with the Unified Modulated Pattern Analysis. Springer Theses, 2021, , 215-257.	0.1	0
8	Principles and State of the Art of X-ray Speckle-Based Imaging. Springer Theses, 2021, , 113-164.	0.1	0
9	X-ray speckle-based phase-contrast imaging: principle and applications. , 2021, , .		1
10	Recent Developments and Ongoing Work in X-ray Speckle-Based Imaging. Springer Theses, 2021, , 259-313.	0.1	0
11	The Unified Modulated Pattern Analysis. Springer Theses, 2021, , 165-193.	0.1	0
12	At-Wavelength Optics Characterisation via X-ray Speckle- and Grating-Based Unified Modulated Pattern Analysis. Springer Theses, 2021, , 195-214.	0.1	0
13	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
14	X-ray phase tomography with near-field speckles for three-dimensional virtual histology. Optica, 2020, 7, 1221.	9.3	37
15	Multi-scale imaging at the diamond beamline I13. AIP Conference Proceedings, 2019, , .	0.4	2
16	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
17	Fast Multi-scale imaging using the Beamline I13L at the Diamond Light Source. , 2019, , .		4
18	Megahertz x-ray microscopy at x-ray free-electron laser and synchrotron sources. Optica, 2019, 6, 1106.	9.3	41

#	ARTICLE	IF	CITATIONS
19	New imaging opportunities at the DIAMOND beamline I13L , 2019, , .		0
20	Multi-Scale Imaging at the Coherence and Imaging Beamline I13 at Diamond. Microscopy and Microanalysis, 2018, 24, 256-257.	0.4	1
21	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
22	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
23	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
24	At-wavelength optics characterisation via X-ray speckle- and grating-based unified modulated pattern analysis. Optics Express, 2018, 26, 4989.	3.4	11
25	State of the Art of X-ray Speckle-Based Phase-Contrast and Dark-Field Imaging. Journal of Imaging, 2018, 4, 60.	3.0	76
26	X-ray Phase-Contrast Imaging and Metrology through Unified Modulated Pattern Analysis. Physical Review Letters, 2017, 118, 203903.	7.8	78
27	Comparison of laboratory grating-based and speckle-tracking x-ray phase-contrast imaging. Journal of Physics: Conference Series, 2017, 849, 012035.	0.4	3
28	Characterisation of speckle-based X-ray phase-contrast imaging. Journal of Physics: Conference Series, 2017, 849, 012024.	0.4	4
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	Multimodal imaging of the human knee down to the cellular level. Journal of Physics: Conference Series, 2017, 849, 012026.	0.4	5
31	X-ray phase microtomography with a single grating for high-throughput investigations of biological tissue. Biomedical Optics Express, 2017, 8, 1257.	2.9	19
32	Comparison of data processing techniques for single-grating x-ray Talbot interferometer data. , 2017, , .		1
33	Micro- and nano-tomography at the DIAMOND beamline I13L imaging and coherence. , 2017, , .		2
34	The imaging and coherence beamline I13L at DIAMOND (Conference Presentation). , 2017, , .		0
35	Noise analysis of speckle-based x-ray phase-contrast imaging. Optics Letters, 2016, 41, 5490.	3.3	15
36	Micro- and nano-imaging at the diamond beamline I13L-imaging and coherence. AIP Conference Proceedings, 2016, , .	0.4	0

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37	Computational cell quantification in the human brain tissues based on hard x-ray phase-contrast tomograms. Proceedings of SPIE, 2016, , .	0.8	0
38	Hierarchical imaging of the human knee. , 2016, , .		3
39	X-ray micro-tomography for investigations of brain tissues on cellular level. , 2016, , .		3
40	Simulations of multi-contrast x-ray imaging using near-field speckles. AIP Conference Proceedings, 2016, , .	0.4	1
41	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
42	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
43	Speckle-based x-ray phase-contrast imaging with a laboratory source and the scanning technique. Optics Letters, 2015, 40, 2822.	3.3	42
44	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
45	Speckle-Based X-Ray Phase-Contrast and Dark-Field Imaging with a Laboratory Source. Physical Review Letters, 2014, 112, 253903.	7.8	149