List of Publications by Year in descending order

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Μλαταρίι Υλεμιρο

#	Article	IF	CITATIONS
1	On the origin of visibility contrast in x-ray Talbot interferometry. Optics Express, 2010, 18, 16890.	3.4	315
2	Phase Tomography by X-ray Talbot Interferometry for Biological Imaging. Japanese Journal of Applied Physics, 2006, 45, 5254-5262.	1.5	310
3	High-speed X-ray phase imaging and X-ray phase tomography with Talbot interferometer and white synchrotron radiation. Optics Express, 2009, 17, 12540.	3.4	148
4	Four-dimensional X-ray phase tomography with Talbot interferometry and white synchrotron radiation: dynamic observation of a living worm. Optics Express, 2011, 19, 8423.	3.4	112
5	Efficiency of capturing a phase image using cone-beam x-ray Talbot interferometry. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2025.	1.5	82
6	X-ray phase imaging: from synchrotron to hospital. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130023.	3.4	78
7	Osteocyte-directed bone demineralization along canaliculi. Bone, 2016, 84, 279-288.	2.9	78
8	Hard-X-Ray Phase-Difference Microscopy Using a Fresnel Zone Plate and a Transmission Grating. Physical Review Letters, 2009, 103, 180801.	7.8	63
9	X-ray Phase Imaging Using Lau Effect. Applied Physics Express, 2011, 4, 066603.	2.4	61
10	Fabrication of large area diffraction grating using LIGA process. Microsystem Technologies, 2008, 14, 1311-1315.	2.0	58
11	Grating-Based X-ray Phase Imaging Using Multiline X-ray Source. Japanese Journal of Applied Physics, 2009, 48, 076512.	1.5	55
12	Wavefront measurement for a hard-X-ray nanobeam using single-grating interferometry. Optics Express, 2012, 20, 24977.	3.4	52
13	Differential Phase X-ray Imaging Microscopy with X-ray Talbot Interferometer. Applied Physics Express, 0, 1, 117002.	2.4	50
14	Effects of unresolvable edges in grating-based X-ray differential phase imaging. Optics Express, 2015, 23, 9233.	3.4	49
15	X-Ray Phase Imaging with Single Phase Grating. Japanese Journal of Applied Physics, 2007, 46, L89-L91.	1.5	48
16	Distribution of unresolvable anisotropic microstructures revealed in visibility-contrast images using x-ray Talbot interferometry. Physical Review B, 2011, 84, .	3.2	45
17	Effect of beam hardening on a visibility-contrast image obtained by X-ray grating interferometry. Optics Express, 2015, 23, 23462.	3.4	44
18	Sub-10-ms X-ray tomography using a grating interferometer. Applied Physics Express, 2017, 10, 052501.	2.4	31

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19	Millisecond-order X-ray phase tomography with a fringe-scanning method. Applied Physics Express, 2018, 11, 122501.	2.4	31
20	X-ray diffraction from an atomic plane. Acta Crystallographica Section A: Foundations and Advances, 2000, 56, 163-167.	0.3	30
21	Hard-X-ray Phase-Difference Microscopy with a Low-Brilliance Laboratory X-ray Source. Applied Physics Express, 2011, 4, 062502.	2.4	29
22	Hard-x-ray phase-imaging microscopy using the self-imaging phenomenon of a transmission grating. Physical Review A, 2010, 82, .	2.5	26
23	Millisecond-order X-ray phase tomography with compressed sensing. Japanese Journal of Applied Physics, 2017, 56, 112503.	1.5	26
24	Multibeam x-ray optical system for high-speed tomography. Optica, 2020, 7, 514.	9.3	26
25	Structural study of Si(111) 21×21 -(Ag+Au) surface by X-ray diffraction. Surface Science, 2001, 493, 214-220.	1.9	25
26	Sensitivity of X-ray Phase Imaging Based on Talbot Interferometry. Japanese Journal of Applied Physics, 2008, 47, 8077.	1.5	24
27	Iterative reconstruction in x-ray computed laminography from differential phase measurements. Optics Express, 2011, 19, 16560.	3.4	23
28	Encapsulation of atomic-scale Bi wires in epitaxial silicon without loss of structure. Physical Review B, 2005, 72, .	3.2	22
29	Effectiveness of X-ray grating interferometry for non-destructive inspection of packaged devices. Journal of Applied Physics, 2013, 114, 134901.	2.5	20
30	Osteogenic capillaries orchestrate growth plate-independent ossification of the malleus. Development (Cambridge), 2015, 142, 3912-20.	2.5	20
31	A metallic glass grating for X-ray grating interferometers fabricated by imprinting. Applied Physics Express, 2014, 7, 032501.	2.4	18
32	High-speed rotating device for X-ray tomography with 10 ms temporal resolution. Journal of Synchrotron Radiation, 2021, 28, 322-326.	2.4	16
33	Fabrication of High Aspect Ratio X-ray Grating Using X-ray Lithography. Journal of Solid Mechanics and Materials Engineering, 2009, 3, 416-423.	0.5	15
34	Talbot-defocus multiscan tomography using the synchrotron X-ray microscope to study the lacuno-canalicular network in mouse bone. Biomedical Optics Express, 2013, 4, 917.	2.9	15
35	Effect of insufficient temporal coherence on visibility contrast in X-ray grating interferometry. Optics Express, 2018, 26, 1012.	3.4	15
36	New method to characterize mesoscopic range and very small strain with using multi-wave X-ray diffraction. Surface Science, 2004, 550, 93-105.	1.9	14

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37	Demonstration of Stroboscopic X-ray Talbot Interferometry Using Polychromatic Synchrotron and Laboratory X-ray Sources. Applied Physics Express, 2013, 6, 096601.	2.4	14
38	Effect of surface structure on crystal-truncation-rod scattering under the Bragg condition. Physical Review B, 2000, 62, 3630-3638.	3.2	13
39	X-ray Bragg magnifier microscope as a linear shift invariant imaging system: image formation and phase retrieval. Optics Express, 2014, 22, 21508.	3.4	13
40	Development of Multi-colored Neutron Talbot–Lau Interferometer with Absorption Grating Fabricated by Imprinting Method of Metallic Glass. Journal of the Physical Society of Japan, 2017, 86, 044001.	1.6	13
41	Darwin's theory for the grazing incidence geometry. Surface Science, 2001, 490, 394-408.	1.9	12
42	High aspect ratio grating by isochronal imprinting of less viscous workable Gd-based metallic glass for neutron phase imaging. Intermetallics, 2016, 78, 55-63.	3.9	12
43	Experimental Evaluation of Neutron Absorption Grating Fabricated by Oblique Evaporation of Gadolinium for Phase Imaging. Physics Procedia, 2017, 88, 217-223.	1.2	11
44	A multi-beam X-ray imaging detector using a branched optical fiber bundle. Japanese Journal of Applied Physics, 2020, 59, 038003.	1.5	11
45	High-speed multi-beam X-ray imaging using a lens coupling detector system. Applied Physics Express, 2020, 13, 077002.	2.4	11
46	Exploring Frontiers of 4D X-ray Tomography. Applied Sciences (Switzerland), 2021, 11, 8868.	2.5	11
47	Biomedical imaging by Talbot-type x-ray phase tomography. , 2006, 6318, 259.		10
48	X-ray phase laminography with Talbot interferometer. Proceedings of SPIE, 2010, , .	0.8	9
49	High-speed X-ray phase tomography with Talbot interferometer and fringe scanning method. AIP Conference Proceedings, 2012, , .	0.4	9
50	Hard X-ray imaging microscopy with self-imaging phenomenon. Microscopy (Oxford, England), 2018, 67, 303-316.	1.5	9
51	Interface reconstructed structure of Ag/Si(111) revealed by X-ray diffraction. Surface Science, 2001, 493, 194-199.	1.9	8
52	Direct Phase Measurement of the X-Ray Specular Reflection Using Modulation under the Bragg Condition. Japanese Journal of Applied Physics, 2002, 41, L592-L594.	1.5	8
53	A Phase Retrieval Method for Noncrystalline Layers on Crystal Surfaces. Japanese Journal of Applied Physics, 2003, 42, 6658-6662.	1.5	8
54	A probe-positioning method with two-dimensional calibration pattern for micro-multi-point probes. Review of Scientific Instruments, 2003, 74, 2722-2725.	1.3	8

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55	Surface bismuth removal after Bi nanoline encapsulation in silicon. Surface Science, 2005, 595, L311-L317.	1.9	8
56	X-ray phase imaging using a Gd-based absorption grating fabricated by imprinting technique. Japanese Journal of Applied Physics, 2016, 55, 048003.	1.5	8
57	Efficient phase imaging using wavelength-resolved neutron Talbot-Lau interferometry with TOF method. Europhysics Letters, 2018, 123, 12002.	2.0	8
58	Probing Surface Morphology using X-ray Grating Interferometry. Scientific Reports, 2019, 9, 14120.	3.3	8
59	Fabrication of X-ray absorption grating using an ultracentrifuge machine. Japanese Journal of Applied Physics, 2019, 58, 088003.	1.5	7
60	Fabrication of multi-blade crystals for hard-X-ray multi-beam imaging system. Japanese Journal of Applied Physics, 2020, 59, 092001.	1.5	7
61	Sensitivity of x-ray phase tomography based on Talbot and Talbot-Lau interferometer. Proceedings of SPIE, 2008, , .	0.8	6
62	X-ray phase tomography with a Talbot interferometer in combination with an X-ray imaging microscope. Journal of Physics: Conference Series, 2009, 186, 012044.	0.4	6
63	X-ray elastography by visualizing propagating shear waves. Applied Physics Express, 2020, 13, 042004.	2.4	6
64	X-ray Talbot-Lau interferometer for high-speed phase imaging and tomography using white synchrotron radiation. , 2012, , .		5
65	Grazing-incidence ultrasmall-angle X-ray scattering imaging with X-ray transmission gratings: A feasibility study. Japanese Journal of Applied Physics, 2014, 53, 05FH04.	1.5	5
66	Edge-illumination x-ray phase contrast imaging with Pt-based metallic glass masks. Review of Scientific Instruments, 2017, 88, 063705.	1.3	5
67	RECIPROCAL-LATTICE SPACE IMAGING OF X-RAY INTENSITIES DIFFRACTED FROM NANOWIRES. Materials Research Society Symposia Proceedings, 2004, 840, Q6.4.1.	0.1	4
68	Development of the Talbot-Lau interferometry system available for clinical use. AIP Conference Proceedings, 2012, , .	0.4	4
69	Photon detection efficiency of laboratory-based x-ray phase contrast imaging techniques for mammography: a Monte Carlo study. Physics in Medicine and Biology, 2017, 62, 7394-7406.	3.0	4
70	Fabrication of Multiple Slit Using Stacked-Sliced Method for Hard X-ray Talbot–Lau Interferometer. Japanese Journal of Applied Physics, 2008, 47, 7412-7414.	1.5	3
71	Fabrication of the X-Ray Mask using the Silicon Dry Etching. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2008, 2, 246-251.	0.7	3
72	Four-dimensional x-ray phase tomography with Talbot interferometer and white synchrotron light. Proceedings of SPIE, 2010, , .	0.8	3

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73	X-ray phase imaging-From static observation to dynamic observation AIP Conference Proceedings, 2012, , .	0.4	3
74	X-ray Phase Microtomography by Single Transmission Grating. AIP Conference Proceedings, 2007, , .	0.4	2
75	Phase Tomography Using X-ray Talbot Interferometer. AIP Conference Proceedings, 2007, , .	0.4	2
76	X-ray Phase Measurements with Talbot Interferometry and Its Applications. , 2010, , .		2
77	Nano-Resolution X-ray Tomography for Deciphering Wiring Diagram of Mammalian Brain. , 2011, , .		2
78	Research toward the development of compact neutron interference imaging instrument with gratings. Journal of Physics: Conference Series, 2012, 340, 012035.	0.4	2
79	Quantitative visibility-contrast tomography in the X-ray Talbot interferometry. , 2012, , .		2
80	X-ray Reciprocal-Lattice Space Imaging Method for Quick analysis of Buried Crystalline Nanostructure - a Diffraction Method Fixed at an Angular Position. Transactions of the Materials Research Society of Japan, 2008, 33, 625-628.	0.2	2
81	Determination of crystal orientation by an area-detector image for surface X-ray diffraction. Journal of Applied Crystallography, 2005, 38, 319-323.	4.5	1
82	Fabrication of Gratings for an X-ray Talbot Interferometer. , 2006, , .		1
83	High-Speed X-ray Phase Imaging with Grating Interferometer and White Synchrotron Light. , 2010, , .		1
84	X-ray Phase Imaging and Tomography Using a Fresnel Zone Plate and a Transmission Grating. , 2011, , .		1
85	X-ray phase laminography with a grating interferometer using iterative reconstruction. AIP Conference Proceedings, 2012, , .	0.4	1
86	Solving Ill-Posed Linear Systems With Constraints on Statistical Moments. IEEE Signal Processing Letters, 2012, 19, 103-106.	3.6	1
87	An improved phase shift reconstruction algorithm of fringe scanning technique for X-ray microscopy. Review of Scientific Instruments, 2015, 86, 023707.	1.3	1
88	Development of grating-based x-ray phase tomography under the ERATO project. Proceedings of SPIE, 2016, , .	0.8	1
89	Strain Field under the SiO2/Si Interface Revealed by a Multiple-Wave X-ray Diffraction Phenomenon. Transactions of the Materials Research Society of Japan, 2007, 32, 227-229.	0.2	1
90	Dynamic X-ray elastography using a pulsed photocathode source. Scientific Reports, 2021, 11, 24128.	3.3	1

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91	Three-Dimensional Observation of Polymer Blends with X-ray Phase Tomography. AIP Conference Proceedings, 2007, , .	0.4	0
92	Fabrication of High Precision X-ray Mask Using Silicon Dry Etching. , 2007, , .		0
93	Oxidation process dependence of strain field under the SiO2/Si(001) interface revealed by X-ray multiple-wave diffraction. Journal of Physics: Conference Series, 2007, 83, 012009.	0.4	0
94	X-ray Phase Imaging Microscopy using a Fresnel Zone Plate and a Transmission Grating. , 2010, , .		0
95	Nano-resolution x-ray tomography for deciphering a wiring diagram of the mouse cerebral cortex. Neuroscience Research, 2010, 68, e331-e332.	1.9	0
96	<i>In situ</i> observation of x-ray irradiation effect by using a multiwave x-ray diffraction phenomenon. Journal of Applied Physics, 2011, 110, .	2.5	0
97	Microstructure Analysis Using Visibility Contrast in X-ray Talbot Interferometry. , 2011, , .		0
98	Theoretical description of the intensity of crystal-truncation-rod scattering modulated by a Bragg reflection. IOP Conference Series: Materials Science and Engineering, 2011, 24, 012020.	0.6	0
99	Preface-International workshop on X-ray and neutron phase imaging with gratings (XNPIG). , 2012, , .		0
100	Theoretical aspect of X-ray phase microscopy with transmission gratings. , 2012, , .		0
101	Analysis of moirel̀•fringes by Wiener filtering: An extension to the Fourier method. , 2012, , .		0
102	Evaluation of gratings for X-ray and neutron phase imaging techniques by using x-ray projection microscope. , 2012, , .		0
103	Constructing a multi-scan synchrotron X-ray microscope to study the function of osteocyte canaliculi in mouse bone. , 2012, , .		0
104	Advanced features of X-ray imaging by MIRRORCLE-CV4. , 2012, , .		0
105	Recent progress in four-dimensional phase tomography with grating interferometry. Proceedings of SPIE, 2012, , .	0.8	0
106	Small-Angle X-ray Scattering Imaging Using Gratings. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2015, 66, 603-607.	0.2	0
107	Formation of extremely high-aspect Si sub-micron patterns with smooth wall for MEMS and X-ray devices. , 2017, , .		0
108	Optical Imaging with Moiré Fringes. Vacuum and Surface Science, 2018, 61, 727-732.	0.1	0

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109	Optimizing Imprinting Condition for High Aspect Grating of Pd-based Metallic Glass. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 52-56.	0.2	0
110	31st Japanese Society for Synchrotron Radiation Research Annual Meeting and Synchrotron Radiation Science Symposium (JSR2018). Synchrotron Radiation News, 2018, 31, 31-32.	0.8	0
111	Dynamic X-ray elastography: A new tool for characterizing soft materials. MRS Communications, 2021, 11, 46-50.	1.8	0
112	Regularized phase shift estimation in X-ray grating interferometry. OSA Continuum, 2021, 4, 2813.	1.8	0
113	Transmission X-ray Diffraction from Bismuth Lines Embedded in Silicon. Transactions of the Materials Research Society of Japan, 2008, 33, 619-622.	0.2	0
114	X-ray Diffraction from Buried Bi atomic wire formed on Si(00l) - near the Bi LIII Absorption Edge. Transactions of the Materials Research Society of Japan, 2008, 33, 623-624.	0.2	0
115	Recent Progress in Solving the Phase Problem in Surface and Interface Crystallography. Transactions of the Materials Research Society of Japan, 2008, 33, 551-556.	0.2	0
116	Quantitative Analysis of the Strain Field beneath the Si ₃ N ₄ /Si(001) Interface Formed by the Xe/NH ₃ Plasma Nitridation using a Multiple-Wave X-ray Diffraction Phenomenon. Transactions of the Materials Research Society of Japan, 2009, 34, 597-599.	0.2	0
117	Mesoscopic-Scale and Small Strain Field beneath SiO2/Si Interface Revealed by a Multiple-Wave X-ray Diffraction Phenomenon - Depth of the Strain Field. E-Journal of Surface Science and Nanotechnology, 2011, 9, 47-50.	0.4	0
118	High-Sensitive X-Ray Imaging Microscopes with Transmission Gratings. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2013, 23, 227-236.	0.0	0