

- [45] "Thermal Phase Transformation of ZnO-Based Transparent Ferromagnetic Composite Films and the Change in Magnetic Characteristics"
T. Shinagawa, M. Izaki, Y. Matsumura, T. Uruga, T. Nakamura, K. Murase, Y. Awakura
Journal of the Electrochemical Society, **153**, (2006), G168-G174
- [46] "Structural Study of Amorphous In₂O₃ Film by Grazing Incidence X-ray Scattering (GIXS) with Synchrotron Radiation"
F. Utsuno, H. Inoue, I. Yasui, Y. Shimane, S. Tomai, S. Matsuzaki, K. Inoue, I. Hirose, M. Sato, T. Honma
Thin Solid Films, **496**, (2006), 95-98
- [47] "Local Structural Analyses on Divalent or Trivalent Metal Fluoride Systems at High Temperature"
S. Watanabe
Doctor Thesis (Tokyo Institute of Technology), , (2006), 1-183

BL20XU

Refereed Journals

- [2002]
- [1] "Hard X-Ray Microbeam Experiments with a Sputtered-Sliced Fresnel Zone Plate and Its Applications"
N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, T. Ninomiya, S. Tamura, M. Yasumoto
Journal of Synchrotron Radiation, **9**, (2002), 182-186
- [2] "Two-Beam X-Ray Interferometer Using Prism Optics"
Y. Suzuki
Japanese Journal of Applied Physics, **41**, (2002), L1019-L1021
- [2003]
- [3] "Microfocusing of 82keV X Rays with a Sputtered-Sliced Fresnel Zone Plate"
M. Awaji, Y. Suzuki, A. Takeuchi, H. Takano, N. Kamijo, M. Yasumoto, Y. Terada, S. Tamura
Review of Scientific Instruments, **74**, (2003), 4948-4949
- [4] "Microbeam of 100 keV X-Ray with a Sputtered-Sliced Fresnel Zone Plate"
N. Kamijo, Y. Suzuki, H. Takano, S. Tamura, M. Yasumoto, A. Takeuchi, M. Awaji
Review of Scientific Instruments, **74**, (2003), 5101-5104
- [5] "Shearing X-Ray Interferometer with an X-Ray Prism"
Y. Kohmura, T. Ishikawa, H. Takano, Y. Suzuki
Journal of Applied Physics, **93**, (2003), 2283-2285
- [6] "Zernike Phase-Contrast X-Ray Microscope with an X-ray Refractive Lens"
Y. Kohmura, A. Takeuchi, H. Takano, Y. Suzuki, T. Ishikawa
Journal de Physique IV France, **104**, (2003), 603-606
- [7] "Shearing X-Ray Interferometer with an X-Ray Prism and its Improvement"
Y. Kohmura, H. Takano, Y. Suzuki, T. Ishikawa
Journal de Physique IV France, **104**, (2003), 571-574
- [8] "Phase-Contrast Microtomography Using an X-Ray Interferometer having a 40- μ m Analyzer"
A. Momose, I. Koyama, Y. Hamaishi, H. Yoshikawa, T. Takeda, J. Wu, Y. Itai, K. Takai, K. Uesugi, Y. Suzuki
Journal de Physique IV France, **104**, (2003), 599-602
- [9] "Demonstration of X-Ray Talbot Interferometry"
A. Momose, S. Kawamoto, I. Koyama, Y. Hamaishi, K. Takai, Y. Suzuki
Japanese Journal of Applied Physics, **42**, (2003), L866-L868
- [10] "Hard X-Ray Microscopy Activities at SPring-8"
Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, K. Uesugi, Y. Kohmura, N. Kamijo, M. Yasumoto, S. Tamura
Journal de Physique IV France, **104**, (2003), 35-40
- [11] "Sub-100 nm Hard X-Ray Microbeam Generation with Fresnel Zone Plate Optics"
H. Takano, Y. Suzuki, A. Takeuchi
Japanese Journal of Applied Physics, **42**, (2003), L132-L134
- [12] "High-Sensitive Imaging with Scanning Transmission Hard X-Ray Microscope"
H. Takano, K. Uesugi, A. Takeuchi, K. Takai, Y. Suzuki
Journal de Physique IV France, **104**, (2003), 41-44
- [13] "Application of Concentric Multilayers to Various X-Ray Optical System"
S. Tamura, M. Yasumoto, N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, K. Uesugi
真空 (Journal of the Vacuum Society of Japan), **46**, (2003), 261-264

- [14] "Ultra-Small-Angle X-ray Diffraction and Scattering Experiments Using Medium-Length Beamlines at SPring-8"
N. Yagi, K. Inoue
Journal of Applied Crystallography, **36**, (2003), 783-786
[2004]
- [15] "Phase Retrieval with Two-Beam Off-Axis X-ray Holography"
Y. Kohmura, T. Sakurai, T. Ishikawa, Y. Suzuki
Journal of Applied Physics, **96**, (2004), 1781-1784
- [16] "Measurement of X-ray Coherence using Two-beam Interferometer with Prism Optics"
Y. Suzuki,
Review of Scientific Instruments, **75**, (2004), 1026-1029
- [17] "Novel Application of Sputtered-Sliced Concentric Multilayers to Various Optical Elements for Synchrotron Radiation High-Brilliance X-ray Beamlines at SPring-8"
S. Tamura, M. Yasumoto, N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, K. Uesugi
Vacuum, **74**, (2004), 741-746
- [18] "CCD-based X-ray Area Detector for Time-resolved Diffraction Experiments"
N. Yagi, K. Inoue, T. Oka
Journal of Synchrotron Radiation, **11**, (2004), 456-461
[2005]
- [19] "Three-Dimensional Observation of Polymer Blend by X-ray Phase Tomography"
A. Momose, A. Fujii, H. Kadowaki, H. Jinnai
Macromolecules, **38**, (2005), 7197-7200
- [20] "Performance Test of Fresnel Zone Plate with 50 nm Outermost Zone Width in Hard X-ray Region"
Y. Suzuki, A. Takeuchi, H. Takano, H. Takenaka
Japanese Journal of Applied Physics, **44**, (2005), 1994-1998
- [21] "Hard X-ray Holographic Microscopy using Refractive Prism and Fresnel Zone Plate Objective"
Y. Suzuki, A. Takeuchi
Review of Scientific Instruments, **76**, (2005), 093702
- [22] "Two-Beam X-Ray Holography Using Prism Optics "
A. Takeuchi, S. Yoshio
Japanese Journal of Applied Physics, **44**, (2005), 3293-3298
- [23] "Synchrotron Radiation, X-ray Imaging, holography, Particle Image Velocimetry"
T. Uemura, S. Murata, S. Nishio, Y. Yamamoto, M. Iguchi, K. Uesugi
可視化情報学会誌 (Journal of the Visualization Society of Japan), **25**, (2005), 203-206
- [24] "PIV Imaging for Multiphase Flow Measurement Utilizing Synchrotron Radiation X-ray"
T. Uemura, S. Murata, Y. Yamamoto, S. Nishio, K. Uesugi
可視化情報学会誌 (Journal of the Visualization Society of Japan), **25**, (2005), 205-208
[2006]
- [25] "X-ray Talbot Interferometry with Capillary Plates"
A. Momose, S. Kawamoto
Japanese Journal of Applied Physics, **45**, (2006), 314-316

BL20B2

Refereed Journals

[2000]

- [1] "Comparative Study between Heart and Kidney Microcirculations Microvisualization Approach"
F. Kajiya
Materials Science and Engineering: C, **13**, (2000), 3-6
- [2] "X-Ray Imaging Microscopy Using a Micro Capillary X-Ray Refractive Lens"
Y. Kohmura, K. Okada, M. Awaji, Y. Suzuki, T. Ishikawa, Yu I. Dudchik, N. N. Kolchevsky, F. F. Komarov
X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507), **CP507**, (2000), 566-570
- [3] "A New Trend for Visualizing Coronary Atherosclerosis"
Y. Nakajima, E. Tanaka, A. Tanaka, W. Kobayashi, E. Sato, K. Ban, N. Hattan, H. Mori
呼吸と循環 (Respiration and Circulation), **48**, (2000), 1041-1047
- [4] "放射光による造影法と臨床応用"
Y. Nakajima, E. Tanaka, K. Ban, N. Hattan, H. Kasahara, E. Sato, A. Tanaka, Y. Shinozaki, H. Mori
循環器科 (Cardioangiology), **48**, (2000), 374-382