

- [9] "Alignment Following Au L<sub>3</sub> Photoionization by Synchrotron Radiation"  
 H. Yamaoka, M. Oura, K. Takahiro, T. Morikawa, S. Ito, M. Mizumaki, S. Semenov, N. Cherepkov, N. Kabachnik, T. Mukoyama  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **36**, (2003), 3889–3897
- [10] "Fundamental Properties of YAP Imager"  
 A. Gorin, K. Kuroda, I. Manuilov, A. Riazantsev, T. Ishikawa, H. Kamikubo, M. Suzuki, H. Toyokawa  
*Nuclear Instruments and Methods in Physics Research Section A*, **510**, (2003), 76–82

## BL47XU

### Refereed Journals

- [1998]
- [1] "Fabrication of Silicon Crystals for Pin-Post Water-Cooling System at SPring-8"  
 M. Kuroda, H. Yamazaki, M. Suzuki, H. Kimura, I. Kagaya, C. Yamashita, T. Ishikawa  
*Journal of Synchrotron Radiation*, **5**, (1998), 1211–1214
- [2] "Design of Compact Absorbers for High-Heat-Load X-Ray Undulator Beamlines at SPring-8"  
 T. Mochizuki, Y. Sakurai, D. Shu, T. M. Kuzay, H. Kitamura  
*Journal of Synchrotron Radiation*, **5**, (1998), 1199–1201
- [1999]
- [3] "Beryllium and Aluminium Refractive collimators for Synchrotron Radiation"  
 A. Q. R. Baron, Y. Kohmura, V. V. Krishnamurthy, Yu V. Shvyd'ko, T. Ishikawa  
*Journal of Synchrotron Radiation*, **6**, (1999), 953–956
- [4] "A Refractive Collimator for Synchrotron Radiation"  
 A. Q. R. Baron, Y. Kohmura, Y. Ohishi, T. Ishikawa  
*Applied Physics Letters*, **74**, (1999), 1492–1494
- [5] "X-Ray Focusing Test and X-Ray Imaging Test by a Microcapillary X-Ray Lens at an Undulator Beamline"  
 Y. Kohmura, M. Awaji, Y. Suzuki, T. Ishikawa, Yu I. Dudchik, N. N. Kolchevsky, F. F. Komarov  
*Review of Scientific Instruments*, **70**, (1999), 4161–4167
- [6] "Refraction-Enhanced X-Ray Imaging of Mouse Lung Using Synchrotron Radiation Source"  
 N. Yagi, Y. Suzuki, K. Umetani, Y. Kohmura, K. Yamasaki  
*Medical Physics*, **26**, (1999), 2190–2193
- [2000]
- [7] "Imaging Hard X-Ray Microscopy with a Multilayer Fresnel Zone Plate"  
 M. Awaji, Y. Suzuki, A. Takeuchi, N. Kamijo, S. Tamura, M. Yasumoto, Y. Kohmura  
*X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507)*, **CP507**, (2000), 545–548
- [8] "Fabrication of High Energy X-Ray Fresnel Phase Zone Plate"  
 N. Kamijo, Y. Suzuki, S. Tamura, M. Awaji, M. Yamamoto, Y. Kohmura, K. Handa, A. Takeuchi  
*X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507)*, **CP507**, (2000), 672–675
- [9] "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
- [10] "Measurement of X-Ray Beam Emittance Using Crystal Optics at an X-Ray Undulator Beamline"  
 Y. Kohmura, Y. Suzuki, M. Awaji, T. Tanaka, T. Hara, S. Goto, T. Ishikawa  
*Nuclear Instruments and Methods in Physics Research Section A*, **452**, (2000), 343–350
- [11] "Fabrication and Hard X-Ray Focusing of X-Ray Refractive Lens from Liquid Materials"  
 Y. Kohmura, 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), 549–553
- [12] "Design of X-Ray Interferometer for Phase-Contrast X-Ray Microtomography"  
 A. Momose, K. Hirano  
*X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507)*, **CP507**, (2000), 98–103

- [13] "Observation and Analysis of Internal Structure of Rock Using X-Ray CT"  
 T. Nakano, Y. Nakashima, K. Nakamura, S. Ikeda  
*地質学雑誌 (Journal of the Geological Society of Japan)*, **106**, (2000), 363–378
- [14] "X-Ray Microbeam with Sputtered-Sliced Fresnel Zone Plate at SPring-8 Undulator Beamline"  
 Y. Suzuki, M. Awaji, Y. Kohmura, A. Takeuchi, N. Kamijo, S. Tamura, K. Handa  
*X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507)*, **CP507**, (2000), 535–538
- [15] "Focusing Efficiency of Multilayer Fresnel Zone Plate for Hard X-Ray Fabricated by DC Sputtering Deposition"  
 S. Tamura, K. Murai, N. Kamijo, K. Yoshida, H. Kihara, Y. Suzuki  
*Vacuum*, **59**, (2000), 553–558
- [2001]
- [16] "Polar-Angle Dependence of the X-Ray Fluorescence Intensity from a Pd Single Crystal"  
 S. Harada, T. Suzuki, T. Sugimura, J. Kawai, S. Omori, Y. Nihei  
*分析化学 (Bunseki Kagaku)*, **50**, (2001), 405–410
- [17] "Development of Apparatus for Multiple Energy X-Ray Holography at SPring-8"  
 K. Hayashi, M. Miyake, T. Tobioka, Y. Awakura, M. Suzuki, S. Hayakawa  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 1241–1244
- [18] "Characterization of the Sputtered-Sliced Zone Plate for High Energy X-Rays"  
 N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, K. Uesugi, M. Yasumoto, S. Tamura, Y. Kohmura, A. Duevel, D. Rudolph, G. Schmahl  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 868–871
- [19] "X-Ray Microbeam with Sputtered-Sliced Fresnel Zone Plate at SPring-8 Undulator Beamline"  
 Y. Suzuki, M. Awaji, Y. Kohmura, A. Takeuchi, H. Takano, N. Kamijo, S. Tamura, M. Yasumoto, K. Handa  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 951–953
- [20] "Suppression of Corrugated Boundaries in Multilayer Fresnel Zone Plate for Hard X-Ray Synchrotron Radiation Using Cylindrical Slit"  
 M. Yasumoto, S. Tamura, N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, Y. Kohmura, K. Handa  
*Japanese Journal of Applied Physics*, **40**, (2001), 4747–4748
- [21] "X-Ray Imaging Microscopy at 25keV with Fresnel Zone Plate Optics"  
 M. Awaji, Y. Suzuki, A. Takeuchi, H. Takano, N. Kamijo, S. Tamura, M. Yasumoto  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 845–848
- [22] "Early Commissioning of the SPring-8 Beamline for High Resolution Inelastic X-Ray Scattering"  
 A. Q. R. Baron, Y. Tanaka, D. Miwa, D. Ishikawa, T. Mochizuki, K. Takeshita, S. Goto, T. Matsushita, H. Kimura, F. Yamamoto, T. Ishikawa  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 627–630
- [23] "High Spatial Resolution Hard X-Ray Microscope Using X-Ray Refractive Lens and Phase Contrast Imaging Experiments"  
 Y. Kohmura, K. Okada, A. Takeuchi, H. Takano, Y. Suzuki, T. Ishikawa, T. Ohigashi, H. Yokosuka  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 881–883
- [24] "Cryogenic Cooling Monochromators for the SPring-8 Undulator Beamlines"  
 T. Mochizuki, Y. Kohmura, M. Awaji, Y. Suzuki, A. Q. R. Baron, K. Tamasaku, M. Yabashi, H. Yamazaki, T. Ishikawa  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 647–649
- [25] "Diffraction-Limited Microbeam with Fresnel Zone Plate Optics in Hard X-Ray Regions"  
 Y. Suzuki, A. Takeuchi, H. Takano, T. Ohigashi, H. Takenaka  
*Japanese Journal of Applied Physics*, **40**, (2001), 1508–1510
- [26] "Hard X-Ray Microtomography Using X-Ray Imaging Optics"  
 A. Takeuchi, K. Uesugi, Y. Suzuki, S. Aoki  
*Japanese Journal of Applied Physics*, **40**, (2001), 1499–1503
- [27] "At Wavelength Focusing Properties Evaluation of the Wolter Type Grazing Incidence Mirror"  
 A. Takeuchi, Y. Suzuki, K. Uesugi, S. Aoki  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 302–304
- [28] "Development of High Spatial Resolution X-Ray CT System at BL47XU in SPring-8"  
 K. Uesugi, Y. Suzuki, N. Yagi, A. Tsuchiyama, T. Nakano  
*Nuclear Instruments and Methods in Physics Research Section A*, **467–468**, (2001), 853–856

[2002]

- [29] "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
- [30] "X-Ray Refraction-Enhanced Imaging and a Method for Phase Retrieval for a Simple Object"  
Y. Suzuki, N. Yagi, K. Uesugi  
*Journal of Synchrotron Radiation*, **9**, (2002), 160–165
- [31] "Development of Multilayer Fresnel Zone Plate for High-Energy Synchrotron Radiation X-Rays by DC Sputtering Deposition"  
S. Tamura, M. Yasumoto, N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, K. Handa  
*Journal of Synchrotron Radiation*, **9**, (2002), 154–159
- [32] "Zernike-Type X-Ray Imaging Microscopy at 25 keV with Fresnel Zone Plate Optics"  
M. Awaji, Y. Suzuki, A. Takeuchi, H. Takano, N. Kamijo, S. Tamura, M. Yasumoto  
*Journal of Synchrotron Radiation*, **9**, (2002), 125–127
- [33] "Elemental Analysis with a Full-Field X-Ray Fluorescence Microscope and a CCD Photon-Counting System"  
T. Ohigashi, N. Watanabe, H. Yokosuka, T. Aota, H. Takano, A. Takeuchi, S. Aoki  
*Journal of Synchrotron Radiation*, **9**, (2002), 128–131
- [34] "Correlative Multielectron Processes in K-Shell Photoionization of Ca, Ti and V in the Energy Range of 8–35 keV"  
M. Oura, H. Yamaoka, K. Kawatsura, K. Takahiro, N. Takeshima, Y. Zou, R. Hutton, S. Ito, Y. Awaya, M. Terasawa, T. Sekioka, T. Mukoyama  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **35**, (2002), 3847–3863
- [35] "Characterization of a Fresnel Zone Plate Using Higher-Order Diffraction"  
A. Takeuchi, Y. Suzuki, H. Takano  
*Journal of Synchrotron Radiation*, **9**, (2002), 115–118
- [36] "Multilayer Fresnel Zone Plate for High-Energy X-Ray by DC Sputtering Deposition"  
S. Tamura, M. Yasumoto, T. Mihara, N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, K. Handa  
*Vacuum*, **66**, (2002), 495–499

[2003]

- [37] "Lifetime-Broadening-Suppressed/free XANES Spectroscopy by High-Resolution Resonant Inelastic X-Ray Scattering"  
H. Hayashi, R. Takeda, Y. Udagawa, T. Nakamura, H. Miyagawa, H. Shoji, S. Nanao, N. Kawamura  
*Physical Review B*, **68**, (2003), 045122
- [38] "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
- [39] "Observation of Three-Dimensional Microstructures of Symplectite Minerals in the Horoman Peridotite Complex using a High-Resolution X-ray CT System at SPring-8."  
A. Tsuchiyama, T. Morishita, T. Nakano, K. Uesugi  
*地質学雑誌 (Journal of the Geological Society of Japan)*, **109**, (2003), III–IV
- [40] "Micro-Tomographic Imaging for Material Sciences at BL47XU in SPring-8"  
K. Uesugi, A. Tsuchiyama, H. Yasuda, M. Nakamura, T. Nakano, Y. Suzuki, N. Yagi  
*Journal de Physique IV France*, **104**, (2003), 45–48
- [41] "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

[2004]

- [42] "Fabrication of Porous Aluminum with Deep Pores by Using Al-In Monotectic Solidification and Electrochemical Etching"  
H. Yasuda, I. Ohnaka, S. Fujimoto, A. Sugiyama, Y. Hayashi, M. Yamamoto, A. Tsuchiyama, T. Nakano, K. Uesugi, K. Kishino  
*Materials Letter*, **58**, (2004), 911–915
- [43] "X-ray Diffraction Topography on a BaTiO<sub>3</sub> Crystal"  
Y. Yoneda, Y. Kohmura, Y. Suzuki, S. Hamazaki, M. Takashige  
*Journal of the Physical Society of Japan*, **73**, (2004), 1050–1053