

- [46] "A Large-Area CMOS Imager as an X-ray Detector for Synchrotron Radiation Experiments"
N. Yagi, M. Yamamoto, K. Uesugi, K. Inoue
Journal of Synchrotron Radiation, **11**, (2004), 347-352
[2005]
- [47] "Three-Dimensional Atomic-Image Reconstruction from a Single Energy Si Photoelectron Hologram"
T. Matsushita, A. Agui, A. Yoshigoe
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 291-294

Optics

Refereed Papers

[1998]

- [1] "Position of Exit X-Rays from Rotated-Inclined Double Crystal Monochromators"
Y. Kashihara, H. Yamazaki, K. Tamasaku, T. Ishikawa
Journal of Synchrotron Radiation, **5**, (1998), 679-681
- [2] "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
- [3] "Helicity-Modulation Technique Using Diffractive Phase Retarder for Measurements of X-Ray Magnetic Circular Dichroism"
M. Suzuki, N. Kawamura, M. Mizumaki, A. Urata, H. Maruyama, S. Goto, T. Ishikawa
Japanese Journal of Applied Physics, **37**, (1998), L1488-L1490
- [4] "Focusing and Reflection by a Bent Crystal for High-Energy Synchrotron Radiation"
H. Yamaoka, K. Ohtomo, T. Ishikawa
Journal of Synchrotron Radiation, **5**, (1998), 687-689
- [5] "Bent-Crystal Monochromators for High-Energy Synchrotron Radiation"
H. Yamaoka, T. Mochizuki, Y. Sakurai, H. Kawata
Journal of Synchrotron Radiation, **5**, (1998), 699-701

[1999]

- [6] "Polarization-Modulation Technique with Diamond Phase Retarder to Improve the Accuracy of XMCD Measurements"
M. Suzuki, N. Kawamura, M. Mizumaki, A. Urata, H. Maruyama, S. Goto, T. Ishikawa
Journal of Synchrotron Radiation, **6**, (1999), 190-192

[2001]

- [7] "A Compact Optical Design for Bragg Reflections Near Backscattering"
Alfred Q. R. Baron, Y. Tanaka, D. Ishikawa, D. Miwa, M. Yabashi, T. Ishikawa
Journal of Synchrotron Radiation, **8**, (2001), 1127-1130
- [8] "Diamond Double-Crystal Monochromator in Bragg Geometry Installed on BL-11XU at SPring-8"
M. Marushita, T. Mitsui, T. Fukuda, M. Takahashi, T. Inami, Y. Katayama, H. Shiwaku, J. Mizuki
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 392-395
- [9] "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
- [10] "Monochromator for a Soft X-Ray Photochemistry Beamline BL27SU of SPring-8"
H. Ohashi, E. Ishiguro, Y. Tamenori, H. Okumura, A. Hiraya, H. Yoshida, Y. Senba, K. Okada, N. Saito, I. H. Suzuki, K. Ueda, T. Ibuki, S. Nagaoka, I. Koyano, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 533-536
- [11] "Refractive X-Ray lens for High Pressure Experiments at SPring-8"
Y. Ohishi, A. Q. R. Baron, M. Ishii, T. Ishikawa, O. Shimomura
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 962-965
- [12] "R&D on Third Generation Multi-Segmented Piezoelectric Bimorph Mirror Substrates at SPring-8"
R. Signorato, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 271-274

- [13] "X-Ray Phase Retrieval in High-Resolution Refraction Data from Amorphous Materials"
K. Siu, A. Y. Nikulin, K. Tamasaku, T. Ishikawa
Applied Physics Letters, **79**, (2001), 2112-2114
- [14] "An Application of Phase Retrieval X-Ray Diffractometry to Refraction/Small-Angle Scattering Data"
K. Siu, A. Y. Nikulin, K. Tamasaku, T. Ishikawa
Journal of Physics D: Applied Physics, **34**, (2001), 2912-2917
- [15] "Energy-Modulation Spectroscopy in Hard X-Ray Region"
M. Suzuki, N. Kawamura, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1568-1571
- [16] "Quantitative Determination of the Spatial Coherence from the Visibility of Equal-Thickness Fringes"
K. Tamasaku, T. Ishikawa
Acta Crystallographica Section A, **57**, (2001), 197-200
- [17] "SPRING-8 RIKEN Beamline III for Coherent X-Ray Optics"
K. Tamasaku, Y. Tanaka, M. Yabashi, H. Yamazaki, N. Kawamura, M. Suzuki, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 686-689
- [18] "Standard X-Ray Mirror Systems for SPRING-8 Beamlines"
T. Uruga, H. Tanida, Y. Yoneda, K. Takeshita, S. Goto, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 782-784
- [19] "Visibility Measurement with an X-Ray Interferometer Using a Coincidence Technique"
M. Yabashi, K. Tamasaku, T. Ishikawa
Japanese Journal of Applied Physics, **40**, (2001), L646-L647
- [20] "Characterization of the Transverse Coherence of Hard Synchrotron Radiation by Intensity Interferometry"
M. Yabashi, K. Tamasaku, T. Ishikawa
Physical Review Letters, **87**, (2001), 140801
- [21] "X-Ray Monochromator with an Energy Resolution of 8×10^{-9} at 14.41 keV"
M. Yabashi, K. Tamasaku, S. Kikuta, T. Ishikawa
Review of Scientific Instruments, **72**, (2001), 4080-4083
- [22] "SPRING-8 Standard X-Ray Monochromator: Alignment of Rotated-Inclined Geometry"
H. Yamazaki, M. Yabashi, K. Tamasaku, Y. Yoneda, S. Goto, T. Mochizuki, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 643-646
- [23] "A Grating Monochromator of BL23SU at Spring-8 Covering Silicon and Oxygen K-Edges"
A. Yoshigoe, A. Agui, T. Nakatani, T. Matsushita, Y. Saitoh, A. Yokoya
Journal of Synchrotron Radiation, **8**, (2001), 502-504
- [2002]
- [24] "Two-Beam X-Ray Interferometer Using Prism Optics"
Y. Suzuki
Japanese Journal of Applied Physics, **41**, (2002), L1019-L1021
- [25] "X-Ray Interferometry with Multicrystal Components Using Intensity Correlation"
K. Tamasaku, M. Yabashi, T. Ishikawa
Physical Review Letters, **88**, (2002), 044801
- [26] "The Goos-Hänchen Effect at Bragg Diffraction"
K. Tamasaku, T. Ishikawa
Acta Crystallographica Section A, **58**, (2002), 408-409
- [27] "Performance of a Grating Monochromator at BL27SU Beamline of SPRING-8 in the Higher Energy Region"
Y. Tamenori, H. Ohashi, E. Ishiguro, T. Ishikawa
Review of Scientific Instruments, **73**, (2002), 1588-1590
- [28] "Measurement of X-Ray Pulse Widths by Intensity Interferometry"
M. Yabashi, K. Tamasaku, T. Ishikawa
Physical Review Letters, **88**, (2002), 244801
- [2003]
- [29] "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

- [30] "Gaussian-Like Shaping of Coherent Synchrotron X-Rays"
Andrei Y. Nikulin, A. Y. Souvorov, K. Tamasaku, T. Ishikawa
Physics Letter A, **319**, (2003), 434-438
- [31] "Application of Optical Scanner to Switching of X-Ray Photon Helicities at kHz Range"
M. Suzuki, N. Kawamura, T. Ishikawa
Review of Scientific Instruments, **74**, (2003), 19-22
- [32] "High-Resolution Fourier Transform X-Ray Spectroscopy"
K. Tamasaku, T. Ishikawa, M. Yabashi
Applied Physics Letters, **83**, (2003), 2994-2996
- [33] "Fabrication of Elliptical Mirror at Nanometer-Level Accuracy for Hard X-Ray Focusing by Numerically Controlled Plasma Chemical Vaporization Machining"
K. Yamamura, K. Yamauchi, H. Mimura, Y. Sano, A. Saito, K. Endo, A. Souvorov, M. Yabashi, K. Tamasaku, T. Ishikawa, Y. Mori
Review of Scientific Instruments, **74**, (2003), 4549-4553
- [34] "Two-Dimensional Submicron Focusing of Hard X-Rays by Two Elliptical Mirrors Fabricated by Plasma Chemical Vaporization Machining and Elastic Emission Machining"
K. Yamauchi, K. Yamamura, H. Mimura, Y. Sano, A. Saito, K. Endo, A. Souvorov, M. Yabashi, K. Tamasaku, T. Ishikawa, Y. Mori
Japanese Journal of Applied Physics, **42**, (2003), 7129-7134
- [35] "X-Ray Interferometer Using Wavefront Division"
H. Yamazaki, T. Ishikawa
Journal of Applied Crystallography, **36**, (2003), 213-219
[2004]
- [36] "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
- [37] "Intensity Interferometry for the Study of X-Ray Coherence"
M. Yabashi, K. Tamasaku, T. Ishikawa
Physical Review A, **69**, (2004), 023813
- [38] "Analysis of the Mutual Coherence Function of X-Rays Using Dynamical Diffraction"
H. Yamazaki, T. Ishikawa
Journal of Applied Crystallography, **37**, (2004), 48-51
[2005]
- [39] "Goniometric and Topographic Characterization of Synthetic IIa Diamonds"
K. Tamasaku, T. Ueda, D. Miwa, T. Ishikawa
Journal of Physics D, **38**, (2005), A61-A66

Theory

Refereed Papers

- [1995]
- [1] "Equilibrium Bunch Length with RF Noises in Electron Storage Rings"
S. Date, K. Soutome, A. Ando
Nuclear Instruments and Methods in Physics Research Section A, **355**, (1995), 199-207
[2002]
- [2] "Coherent ϕ and ω Meson Photoproduction from Deuteron and Nondiffractive Channels"
A. I. Titov, M. Fujiwara, T. S. -H. Lee
Physical Review C, **66**, (2002), 022202
[2003]
- [3] "Theory of Study on Local Distortion in ErO₆ Cluster: Spontaneous Symmetry Reduction in Lanthanoid Octahedrons"
M. Ishii, Y. Komukai
Journal of Applied Physics, **94**, (2003), 2368-2372