

- [67] "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), 1175-1177
- [68] "Electron Holography: A Maximum Entropy Reconstruction Scheme"
T. Matsushita, A. Yoshigoe, A. Agui
Europhysics Letters, **71**, (2005), 597-603
- [69] "Admixture of Excited States and Ground States of Eu^{3+} Ion in $\text{Eu}_3\text{Fe}_5\text{O}_{12}$ by Means of Magnetic Circular Dichroism"
M. Mizumaki, T. Uozumi, A. Agui, N. Kawamura, M. Nakazawa
Physical Review B, **71**, (2005), 134416
- [70] "Natural Circular Dichroism of Amino Acid Films Observed in Soft X-ray and VUV Region using Polarizing Undulator"
K. Nakagawa, F. Kaneko, Y. Ohta, M. Tanaka, T. Kitada, A. Agui, K. Fujii, A. Yokoya, K. Yagi-Watanabe, T. Yamada
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 271-273
- [71] "Scheme for Precise Correction of Orbit Variation Caused by Dipole Error Field of Insertion Device"
T. Nakatani, A. Agui, H. Aoyagi, T. Matsushita, M. Takao, M. Takeuchi, A. Yoshigoe, H. Tanaka
Review of Scientific Instruments, **76**, (2005), 055105
- [72] "Synchrotron Radiation Photoelectron Emission Study of SiO_2 Film Formed by Hyperthermal O-Atom Beam at Room Temperature"
M. Tagawa, C. Sogoh, K. Yokota, S. Hachiue, A. Yoshigoe, Y. Teraoka
Japanese Journal of Applied Physics, **44**, (2005), 8300-8304
[2006]
- [73] "Incident Angle Dependence of MCD at the Dy M_5 -edge of Perpendicular Magnetic $\text{Dy}_x\text{Co}_{100-x}$ Films "
A. Agui, M. Mizumaki, T. Asahi, J. Sayama, K. Matsumoto, T. Morikawa, T. Matsushita, T. Osaka, Y. Miura
Journal of Alloys and Compounds, **408-412**, (2006), 741-745
- [74] "Itinerant U 5f-Band States in the Layered Compound UFeGa_5 Observed by Soft X-ray Angle-Resolved Photoemission Spectroscopy"
S. Fujimori, K. Terai, Y. Takeda, T. Okane, Y. Saitoh, Y. Muramatsu, A. Fujimori, H. Yamagami, Y. Tokiwa, S. Ikeda, T. Matsuda, Y. Haga, E. Yamamoto, Y. Onuki
Physical Review B, **73**, (2006), 125109
- [75] "The Azimuthal Dependent Oxidation Process on Cu(100) by Energetic Oxygen Molecules"
K. Moritani, M. Okada, T. Fukuyama, Y. Teraoka, A. Yoshigoe, T. Kasai
The European Physical Journal D, **38**, (2006), 111-115

BL24XU

Refereed Journals

- [1998]
- [1] "Material Analysis End-Station of the Hyogo-Ken Beamline at SPring-8"
T. Kaneyoshi, T. Ishihara, H. Yoshioka, M. Motoyama, S. Fukushima, K. Hayashi, J. Kawai, K. Taniguchi, S. Hayakawa, Y. Gohshi
Journal of Synchrotron Radiation, **5**, (1998), 509-511
- [2] "In-Vacuum Figure-8 Undulator for Hard X-Ray with Both Horizontal and Vertical Polarization"
T. Tanaka, X. Marechal, T. Hara, T. Tanabe, H. Kitamura
Journal of Synchrotron Radiation, **5**, (1998), 412-413
[1999]
- [3] "Phase-Contrast X-Ray Imaging Using Both Vertically and Horizontally Expanded Synchrotron Radiation X-Rays with Asymmetric Bragg Reflection"
Y. Kagoshima, Y. Tsusaka, K. Yokoyama, K. Takai, S. Takeda, J. Matsui
Japanese Journal of Applied Physics, **38**, (1999), L470-L472
- [4] "Characterization of Diamond Single Crystals for Synchrotron Radiation Monochromators"
Y. Tsusaka, S. Takeda, K. Takai, K. Yokoyama, Y. Kagoshima, J. Matsui, S. Sato, N. Toda, S. Kimura
Japanese Journal of Applied Physics, **38**, (1999), 616-619

- [5] "Recognition of a TG Mismatch: The Crystal Structure of Very Short Patch Repair Endonuclease in Complex with a DNA Duplex"
Susan E. Tsutakawa, H. Jingami, K. Morikawa
Cell, **99**, (1999), 615-623
[2000]
- [6] "Expression, Purification and Crystallization of Human Tau-Protein Kinase I/Glycogen Synthase Kinase-3 β "
M. Aoki, M. Iwamoto-Sugai, I. Sugiura, C. Sasaki, T. Hasegawa, C. Okumura, S. Sugio, T. Kohno, T. Matsuzaki
Acta Crystallographica Section D, **56**, (2000), 1464-1465
- [7] "Amphipathic Structure of Theonellaeptolide-Id, a Hydrophobic Tridecapeptide Lactone from the Okinawa Marine Sponge *Theonella swinhoei*"
M. Doi, T. Ishida, M. Kobayashi, Y. Katsuya, Y. Mezaki, M. Sasaki, A. Terashima, T. Taniguchi, C. Tanaka
Biopolymers, **54**, (2000), 27-34
- [8] "Unique Sodium-Caged Structure of a Potent Endothelin-1 Inhibitor: Crystal Structure of BQ123 Sodium Salt, *cyclo(-D-Trp-D-Asp-Pro-D-Val-Leu-)·Na⁺*"
M. Doi, T. Ishida, Y. Katsuya, Y. Mezaki, M. Sasaki, A. Terashima, T. Taniguchi, H. Hasegawa, M. Shiono
Chemical Communications, , (2000), 743-744
- [9] "500-nm-Resolution 10 keV X-Ray Imaging Transmission Microscope with Tantalum Phase Zone Plates"
Y. Kagoshima, T. Ibuki, K. Takai, Y. Yokoyama, N. Miyamoto, Y. Tsusaka, J. Matsui
Japanese Journal of Applied Physics, **39**, (2000), L433-L435
- [10] "Focusing Properties of Tantalum Phase Zone Plate and Its Application to Hard X-Ray Microscope"
Y. Kagoshima, K. Takai, T. Ibuki, K. Yokoyama, S. Takeda, M. Urakawa, Y. Tsusaka, J. Matsui
X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507), **CP507**, (2000), 668-671
- [11] "Real-time Phase-Contrast X-Ray Imaging Using Two-Dimensionally Expanded Synchrotron Radiation X-Rays at the BL24XU(Hyogo-BL) of the SPring-8"
Y. Kagoshima, Y. Tsusaka, J. Matsui, K. Yokoyama, K. Takai, S. Takeda, K. Kobayashi, H. Kimura, S. Kimura, K. Izumi
X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507), **CP507**, (2000), 41-44
- [12] "Reconstruction of an InP(001) Surface Grown by Metalorganic Vapor Phase Epitaxy in Atmospheric Hydrogen Environment"
T. Kawamura, Y. Watanabe, Y. Utsumi, K. Uwai, J. Matsui, Y. Kagoshima, Y. Tsusaka, S. Fujikawa
Applied Physics Letters, **77**, (2000), 996-998
- [13] "High-Resolution Microbeam X-Ray Diffractometry Applied to InGaAsP/InP Layers Grown by Narrow-Stripe Selective Metal-Organic Vapor Phase Epitaxy"
S. Kimura, H. Kimura, K. Kobayashi, T. Oohira, K. Izumi, Y. Sakata, Y. Tsusaka, K. Yokoyama, S. Takeda, M. Urakawa, Y. Kagoshima, J. Matsui
Applied Physics Letters, **77**, (2000), 1286-1288
- [14] "X-Ray Phase Contrast Imaging Study of Activated Carbon/Carbon Composite"
K. Kobayashi, K. Izumi, H. Kimura, S. Kimura, T. Oohira, T. Saito, Y. Kibi, T. Ibuki, K. Takai, Y. Tsusaka, Y. Kagoshima, J. Matsui
Materials Research Society Symposia Proceedings, **590**, (2000), 273-278
- [15] "Structural Basis of Glutamate Recognition by a Dimeric Metabotropic Glutamate Receptor"
N. Kunishima, Y. Shimada, Y. Tsuji, T. Sato, M. Yamamoto, T. Kumasaka, S. Nakanishi, H. Jingami, K. Morikawa
Nature, **407**, (2000), 971-977
- [16] "Live X-Ray Refraction Imaging Using Vertically and Horizontally Wide X-Rays"
J. Matsui, Y. Kagoshima, Y. Tsusaka, K. Yokoyama, K. Takai, S. Takeda, K. Yamasaki
X-Ray and Inner-Shell Processes (AIP Conference Proceedings 506), **CP506**, (2000), 565-576
- [17] "Formation of Parallel X-Ray Microbeam and Its Application"
Y. Tsusaka, K. Yokoyama, S. Takeda, M. Urakawa, Y. Kagoshima, J. Matsui, S. Kimura, H. Kimura, K. Kobayashi, K. Izumi
Japanese Journal of Applied Physics, **39**, (2000), L635-L637

- [18] "Crystallization and Preliminary X-Ray Crystallographic Analysis of Alginate Lyase A1-II from *Sphingomonas* Species A1"
H. Yoon, W. Hashimoto, Y. Katsuya, Y. Mezaki, K. Murata, B. Mikami
Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology, **1476**, (2000), 382-385
- [2001]
- [19] "Crystal Structure of 2-[*N*-(*t*-Butoxycarbonyl)amino]-4-(thymine-1-yl)-Butyric Acid Methyl Ester"
A. Asano, Y. Katsuya, M. Sasaki, T. Taniguchi, H. Hasegawa, M. Doi
Analytical Sciences, **17**, (2001), 361-362
- [20] "A β -Sheet Structure Formed by C-H...O Hydrogen Bonds between the Thiazole Rings and Amide Bonds of a Dimeric Desoxazoline Ascidiacyclamide Analogue"
A. Asano, T. Taniguchi, M. Sasaki, H. Hasegawa, Y. Katsuya, M. Doi
Acta Crystallographica Section E, **57**, (2001), o834-o838
- [21] "Effects of Amino Acids and Chirality for Molecular Folding of Desoxazoline Ascidiacyclamide Derivatives: X-Ray Crystal Structures of Four Cyclic Octapeptides Including Unusual Amino Acids, *cyclo*(-Ile-*a*Thr-D-Val-Thz-)₂, *cyclo*(-Ala-*a*Thr-D-Val-Thz-Ile-*a*Thr-D-Val-Thz-), *cyclo*(-Val-*a*Thr-D-Val-Thz-Ile-*a*Thr-D-Val-Thz-), and *cyclo*(-Ile-*a*Thr-Val-Thz-Ile-*a*Thr-D-Val-Thz-)"
A. Asano, M. Doi, K. Kobayashi, M. Ariomoto, T. Ishida, Y. Katsuya, Y. Mezaki, H. Hasegawa, M. Nakai, M. Sasaki, T. Taniguchi, A. Terashima
Biopolymers, **58**, (2001), 295-304
- [22] "Caged and Clustered Structures of Endothelin Inhibitor BQ123, *cyclo*(-D-Trp-D-Asp⁻-Pro-D-Val-Leu-)⁺Na⁺, Forming Five and Six Coordination Bonds between Sodium Ions and Peptides"
M. Doi, A. Asano, T. Ishida, Y. Katsuya, Y. Mezaki, M. Sasaki, A. Terashima, T. Taniguchi, H. Hasegawa, M. Shiono
Acta Crystallographica Section D, **57**, (2001), 628-634
- [23] "A Folded Conformation of an Ascidiacyclamide Derivative: 3-Methoxysulfoxide-(2*R*,3*R*)-Threoninyl Desoxazoline-Ascidiacyclamide"
M. Doi, A. Asano, Y. Usami, Y. Katsuya, M. Nakai, M. Sasaki, T. Taniguchi, H. Hasegawa
Acta Crystallographica Section E, **57**, (2001), o1019-o1021
- [24] "KNI-272, a Highly Selective and Potent Peptidic HIV Protease Inhibitor"
M. Doi, T. Ishida, Y. Katsuya, M. Sasaki, T. Taniguchi, H. Hasegawa, T. Mimoto, Y. Kiso
Acta Crystallographica Section C, **57**, (2001), 1333-1335
- [25] "Antiparallel Plated β -Sheets Observed in Crystal Structures of *N,N*-Bis(Trichloroacetyl) and *N,N*-Bis(*m*-Bromobenzoil) Gramicidin S"
M. Doi, S. Fujita, Y. Katsuya, M. Sasaki, T. Taniguchi, H. Hasegawa
Archives of Biochemistry and Biophysics, **395**, (2001), 85-93
- [26] "High Resolution X-Ray Fluorescence Measurements Using a Flat Analyzer Crystal and an X-Ray CCD"
S. Hayakawa, Y. Kagoshima, Y. Tsusaka, J. Matsui, T. Hirokawa
Journal of Trace and Microprobe Techniques, **19**, (2001), 615-621
- [27] "10 keV X-Ray Phase-Contrast Microscopy for Observing Transparent Specimens"
Y. Kagoshima, T. Ibuki, Y. Yokoyama, Y. Tsusaka, J. Matsui, K. Takai, M. Aino
Japanese Journal of Applied Physics, **40**, (2001), L1190-L1192
- [28] "Scanning Hard X-Ray Microscope with Tantalum Phase Zone Plate at the Hyogo-BL (BL24XU) of SPring-8"
Y. Kagoshima, K. Takai, T. Ibuki, Y. Yokoyama, T. Hashida, K. Yokoyama, S. Takeda, M. Urakawa, N. Miyamoto, Y. Tsusaka, J. Matsui, M. Aino
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 872-876
- [29] "In situ Observation of Superstructures on Epitaxially Grown Semiconductor Surface under Hydrogen Atmosphere"
T. Kawamura, Y. Watanabe, Y. Utsumi, J. Matsui, Y. Kagoshima, Y. Tsusaka, S. Fujikawa
Transactions of the Materials Research Society of Japan, **26**, (2001), 759-762
- [30] "X-Ray Phase-Contrast Imaging with Submicron Resolution by Using Extremely Asymmetric Bragg Diffractions"
K. Kobayashi, K. Izumi, H. Kimura, S. Kimura, T. Ibuki, Y. Yokoyama, Y. Tsusaka, Y. Kagoshima, J. Matsui
Applied Physics Letters, **78**, (2001), 132-134
- [31] "Crystallization and Secondary-Structure Determination of a Protein of the Lrp/AsnC Family from a Hyperthermophilic Archaeon"
N. Kudo, Mark D. Allen, H. Koike, Y. Katsuya, M. Suzuki
Acta Crystallographica Section D, **57**, (2001), 469-471

- [32] "Crystal Structure of the Archaeal Holliday Junction Resolvase Hjc and Implications for DNA Recognition"
T. Nishino, K. Komori, D. Tsuchiya, Y. Ishino, K. Morikawa
Structure, **9**, (2001), 197-204
- [33] "Atomic Structure of the Clamp Loader Small Subunit from *Pyrococcus furiosus*"
T. Oyama, Y. Ishino, Isaac K. O. Cann, S. Ishino, K. Morikawa
Molecular Cell, **8**, (2001), 455-463
- [34] "Rocking Curve Measurements of Infrared LEDs Using Highly Parallel X-Ray Microbeam"
S. Takeda, K. Yokoyama, M. Urakawa, T. Ibuki, T. Takai, Y. Tsusaka, Y. Kagoshima, J. Matsui, N. Miyamoto
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 974-977
- [35] "Hyogo Beamline at SPring-8: Multiple Station Beamline with the TROIKA Concept"
Y. Tsusaka, K. Yokoyama, S. Takeda, K. Takai, Y. Kagoshima, J. Matsui
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 670-673
- [36] "Crystal Structure of the Holliday Junction Migration Motor Protein RuvB from *Thermus thermophilus* HB8"
K. Yamada, N. Kunishima, K. Mayanagi, T. Ohnishi, T. Nishino, H. Iwasaki, H. Shinagawa, K. Morikawa
Proceedings of the National Academy of Sciences of the United States of America, **98**, (2001), 1442-1447
- [37] " $\sin^2 \psi$ Stress Measurement Method with Maintaining Probing Depth"
E. Yanase, K. Zolotarev, K. Nishio, Y. Kusumi, K. Arai, S. Nakagawa
Journal of Neutron Research, **9**, (2001), 273-279
- [38] "Study of Local Strain Distribution in Semiconductor Devices Using High-Resolution X-Ray Microbeam Diffractometry"
K. Yokoyama, S. Takeda, M. Urakawa, Y. Tsusaka, Y. Kagoshima, J. Matsui, S. Kimura, H. Kimura, K. Kobayashi, T. Ohhira, K. Izumi, N. Miyamoto
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1205-1208
- [39] "Focusing Hard X-Ray with a Single Lens"
Y. Zhang, T. Kato, Y. Kagoshima, J. Matsui, Y. Tsusaka
Japanese Journal of Applied Physics, **40**, (2001), L75-L77
[2002]
- [40] "X-Ray Optics 'Owl' and 'Trinity'"
M. Ando, K. Hyodo, H. Sugiyama, A. Maksimenko, W. Pattanasiriwisawa, K. Mori, J. Roberson, E. Rubenstein, Y. Tanaka, J. Chen, D. Xian, X. Zhang
Japanese Journal of Applied Physics, **41**, (2002), 4742-4749
- [41] "Possible Detection of Bony Trabeculae, Vascular Channels in Auditory Ossicles and Breast Cancer by Means of X-Ray Dark Field Imaging"
M. Ando, J. Roberson, E. Rubenstein, W. Pattanasiriwisawa, A. Maksimenko, H. Sugiyama, K. Hyodo, C. Uyama
Proceedings of Joint Symposium on Bio-Sensing and Bio-Imaging 2001, , (2002), 95-100
- [42] "Simple X-Ray Dark-and Bright-Field Imaging Using Achromatic Laue Optics"
M. Ando, A. Maksimenko, H. Sugiyama, W. Pattanasiriwisawa, K. Hyodo, C. Uyama
Japanese Journal of Applied Physics, **41**, (2002), L1016-L1018
- [43] "Effect of Asymmetric Modification on the Conformation of Ascidiacyclamide Analogs"
A. Asano, K. Minoura, T. Yamada, A. Numata, T. Ishida, Y. Katsuya, Y. Mezaki, M. Sasaki, T. Taniguchi, M. Nakai, H. Hasegawa, A. Terashima, M. Doi
The Journal of Peptide Research, **60**, (2002), 10-22
- [44] "A Flat Squared Conformation of an Ascidiacyclamide Derivative Caused by Chiral Modification of an Oxazoline Residue"
A. Asano, T. Yamada, A. Numata, Y. Katsuya, M. Sasaki, T. Taniguchi, M. Doi
Biochemical and Biophysical Research Communications, **297**, (2002), 143-147
- [45] "Electrical and Structural Properties of Indium Tin Oxide Films Prepared by Pulsed Laser Deposition"
H. Izumi, Frederick O. Adurodija, T. Kaneyoshi, T. Ishihara, H. Yoshioka, M. Motoyama
Journal of Applied Physics, **91**, (2002), 1213-1218
- [46] "230 nm Resolution 10 keV X-Ray Imaging Transmission Microscope with Parallel Beam Illumination"
Y. Kagoshima, T. Ibuki, Y. Yokoyama, K. Takai, Y. Tsusaka, J. Matsui
Japanese Journal of Applied Physics, **41**, (2002), 412-413

- [47] "High Resolution Hard X-Ray Phase-Contrast Microscopy with a Large-Diameter and High-Numerical-Aperture Zone Plate"
Y. Kagoshima, Y. Yokoyama, T. Ibuki, T. Niimi, Y. Tsusaka, K. Takai, J. Matsui
Journal of Synchrotron Radiation, **9**, (2002), 132-135
- [48] "Direct Microfabrication Using an X-Ray Micro-Beam"
T. Katoh, Y. Zhang, Y. Kagoshima, Y. Tsusaka, J. Matsui
Sensors and Actuators A, **97-98**, (2002), 725-728
- [49] "Real-time Observation of Surface Morphology of Indium Phosphide MOVPE Growth with using X-ray Reflectivity Technique"
T. Kawamura, Y. Watanabe, S. Fujikawa, S. Bhunia, K. Uchida, J. Matsui, Y. Kagoshima, Y. Tsusaka
Journal of Crystal Growth, **237-239**, (2002), 398-402
- [50] "Measurement of Strain Distribution in InGaAsP Selective-Area Growth Layers Using a Micro-Area X-Ray Diffraction Method with Sub- μ m Spatial Resolution"
S. Kimura, Y. Kagoshima, K. Kobayashi, K. Izumi, Y. Sakata, S. Sudo, Y. Yokoyama, T. Niimi, Y. Tsusaka, J. Matsui
Japanese Journal of Applied Physics, **41**, (2002), L1013-L1015
- [51] "Microscopic Strain Analysis of Semiconductor Crystallites Using a Synchrotron X-Ray Microbeam"
J. Matsui, Y. Tsusaka, K. Yokoyama, S. Takeda, M. Urakawa, Y. Kagoshima, S. Kimura
Journal of Crystal Growth, **237-239**, (2002), 317-323
- [52] "Trace Elemental Analysis of Drugs of Abuse Using Synchrotron Radiation Total Reflection X-Ray Fluorescence Analysis (SR-TXRF)"
S. Muratsu, T. Ninomiya, Y. Kagoshima, J. Matsui
Journal of Forensic Sciences, **47**, (2002), 944-949
- [53] "Structural Views of the Ligand-Binding Cores of a Metabotropic Glutamate Receptor Complexed with an Antagonist and Both Glutamate and Gd^{3+} "
D. Tsuchiya, N. Kunishima, N. Kamiya, H. Jingami, K. Morikawa
Proceedings of the National Academy of Sciences of the United States of America, **99**, (2002), 2660-2665
- [54] "Crystal Structure of the RuvA-RuvB Complex: A Structural Basis for the Holliday Junction Migrating Motor Machinery"
K. Yamada, T. Miyata, D. Tsuchiya, T. Oyama, Y. Fujiwara, T. Ohnishi, H. Iwasaki, H. Shinagawa, M. Ariyoshi, K. Mayanagi, K. Morikawa
Molecular Cell, **10**, (2002), 671-681
- [55] "Crystallographic Studies on Human BST-1/CD157 with ADP-Ribosyl Cyclase and NAD Glycohydrolase Activities"
S. Yamamoto-Katayama, M. Ariyoshi, K. Ishihara, T. Hirano, H. Jingami, K. Morikawa
Journal of Molecular Biology, **316**, (2002), 711-723
- [56] "X-Ray Diffractometer Designed for Industrial Applications at SPring-8 BL24XU"
E. Yanase, K. Zolotarev, K. Nishio, Y. Kusumi, H. Okado, K. Arai
Journal of Synchrotron Radiation, **9**, (2002), 309-312
[2003]
- [57] "Hard X-Ray Phase-Contrast Microscope for Observing Transparent Specimens"
Y. Kagoshima, Y. Yokoyama, T. Niimi, T. Koyama, Y. Tsusaka, J. Matsui, K. Takai
Journal de Physique IV France, **104**, (2003), 49-52
- [58] "Realtime Observation of Surface Morphology at Nanometer Scale with using X-ray Specular Reflection"
T. Kawamura, Y. Watanabe, S. Fujikawa, S. Bhunia, K. Uchida, J. Matsui, Y. Kagoshima, Y. Tsusaka
Surface and Interface Analysis, **35**, (2003), 72-75
- [59] "Structure of Bovine Sadenosine Deaminase Complexed with 6-hydroxy-1,6-dihydropurine Riboside"
T. Kinoshita, N. Nishio, I. Nakanishi, A. Sato, T. Fujii
Acta Crystallographica Section D, **59**, (2003), 299-303
- [60] "Measurement of Minute Local Strain in Semiconductor Materials and Electronic Devices by Using a Highly Parallel X-Ray Microbeam"
J. Matsui, Y. Tsusaka, K. Yokoyama, S. Takeda, M. Katou, H. Kurihara, K. Watanabe, Y. Kagoshima, S. Kimura
Nuclear Instruments and Methods in Physics Research Section B, **199**, (2003), 15-18

- [61] "Intermolecular Ion Pairs Maintain the Toroidal Structure of *Pyrococcus furiosus* PCNA"
S. Matsumiya, S. Ishino, Y. Ishino, K. Morikawa
Protein Science, **12**, (2003), 823-831
- [62] "Direct Observations of Cracks and Voids in Structural Materials by X-Ray Imaging Using Ultra-Bright Synchrotron Radiation"
T. Nakayama, F. Yuse, Y. Tsubokawa, J. Matsui
ISIJ International, **43**, (2003), 589-596
- [63] "Forensic Discrimination of Headlight Glass by Analysis of Trace Impurities with Synchrotron Radiation X-Ray Fluorescence Spectrometry and ICP-MS"
Y. Suzuki, M. Kasamatsu, R. Sugita, H. Ohta, S. Suzuki, Y. Marumo
分析化学 (Bunseki Kagaku), **52**, (2003), 469-474
- [64] "Estimation of Bonded Silicon-on-Insulator Wafers by Means of Diffractometry Using a Parallel X-Ray Microbeam"
Y. Tsusaka, M. Urakawa, K. Yokoyama, S. Takeda, M. Katou, H. Kurihara, F. Yoshida, K. Watanabe, Y. Kagoshima, J. Matsui
Nuclear Instruments and Methods in Physics Research Section B, **199**, (2003), 19-22
- [65] "Pronounced Conversion of the Metal-Specific Activity of Superoxide Dismutase from *Porphyromonas gingivalis* by the Mutation of a Single Amino Acid (Gly155Thr) Located Apart from the Active Site"
F. Yamakura, S. Sugio, B. Yukihiro Hiraoka, D. Ohmori, T. Yokota
Biochemistry, **42**, (2003), 10790-10799
- [66] "Residual Stress Evaluation by X-Rays from Synchrotron Radiation Source"
E. Yanase
Doctor Thesis (Nagoya University), , (2003),
[2004]
- [67] "Construction of X-ray Dark-Field Imaging with a View Size of 80 mm Square and First Visualization of Human Articular Cartilage at Femoral Head under a Nearly Clinical Condition"
M. Ando, H. Sugiyama, T. Kunisada, D. Shimao, K. Takeda, H. Hashizume, H. Inoue
Japanese Journal of Applied Physics, **43**, (2004), L1175-L1177
- [68] "Structural Insight into Nucleotide Recognition in Tau- Protein Kinase I/Glycogen Synthase Kinase 3 β "
M. Aoki, T. Yokota, I. Sugiura, C. Sasaki, T. Hasegawa, C. Okumura, K. Ishiguro, T. Kohno, S. Sugio, T. Matsuzaki
Acta Crystallographica Section D, **60**, (2004), 439-446
- [69] "Free-Standing and Vertically Aligned InP Nanowires Grown by Metalorganic Vapor Phase Epitaxy"
S. Bhunia, T. Kawamura, S. Fujikawa, K. Tokushima, Y. Watanabe
Physica E, **21**, (2004), 583-587
- [70] "Scanning Differential-Phase-Contrast Hard X-Ray Microscopy with Wedge Absorber Detector"
Y. Kagoshima, K. Shimose, T. Koyama, I. Wada, A. Saikubo, K. Hayashi, Y. Tsusaka, J. Matsui
Japanese Journal of Applied Physics, **43**, (2004), L1449-L1451
- [71] "Structure of the Biotin Carboxylase Subunit of Pyruvate Carboxylase from *Aquifex Aeolicus* at 2.2Å Resolution"
S. Kondo, Y. Nakajima, S. Sugio, Y. Jin, S. Sueda, H. Kondo
Acta Crystallographica Section D, **60**, (2004), 486-492
- [72] "High-Spatial-Resolution Phase Measurement by Micro-Interferometry Using a Hard X-Ray Imaging Microscope"
T. Koyama, Y. Kagoshima, I. Wada, A. Saikubo, K. Shimose, K. Hayashi, Y. Tsusaka, J. Matsui
Japanese Journal of Applied Physics, **43**, (2004), L421-L423
- [73] "Structure of Human Translin at 2.2Å Resolution"
I. Sugiura, C. Sasaki, T. Hasegawa, T. Kohno, S. Sugio, H. Moriyama, M. Kasai, T. Matsuzaki
Acta Crystallographica Section D, **60**, (2004), 674-679
- [74] "Crystal Structure of the Complex of Porcine Pancreatic Elastase with TEI-8362"
M. Takimoto-Kamimura, M. Koizumi, E. Muratani, K. Fujii
Journal of Synchrotron Radiation, **11**, (2004), 101-104
- [75] "A Highly Potent Non-Nucleoside Adenosine Deaminase Inhibitor: Efficient Drug Discovery by Intentional Lead Hybridization"
T. Terasaka, T. Kinoshita, M. Kuno, I. Nakanishi
Journal of the American Chemical Society, **126**, (2004), 34-35

- [76] "Structure-Based Design and Synthesis of Non-Nucleoside, Potent, and Orally Bioavailable Adenosine Deaminase Inhibitors"
T. Terasaka, T. Kinoshita, H. Okumura, K. Tsuji, T. Kato, I. Nakanishi, Y. Kato, M. Kuno, N. Seki, Y. Naoe, T. Inoue, K. Tanaka, K. Nakamura
Journal of Medicinal Chemistry, **47**, (2004), 2728-2731
- [77] "Structure-Based Design, Synthesis, and Structure-Activity Relationship Studies of Novel Non-Nucleoside Adenosine Deaminase Inhibitors"
T. Terasaka, T. Kinoshita, M. Kuno, N. Seki, K. Tanaka, I. Nakanishi
Journal of Medicinal Chemistry, **47**, (2004), 3730-3743
[2005]
- [78] "Structure and Property of Self-Assemble Valinyl Bolaform Amides having Different Chirality"
M. Doi, A. Asano, H. Yoshida, M. Inoguchi, K. Iwanaga, M. Sasaki, Y. Katsuya, T. Taniguchi, D. Yamamoto
The Journal of Peptide Research, **66**, (2005), 181-189
- [79] "High Resolution X-ray Diffraction of Epitaxially Grown Indium Phosphide Nanowires at Grazing Incidence Condition"
T. Kawamura, S. Bhunia, Y. Watanabe, S. Fujikawa, J. Matsui, Y. Kagoshima, Y. Tsusaka
Journal of Applied Physics, **97**, (2005), 084318
- [80] "Structural Basis of Compound Recognition by Adenosine Deaminase"
T. Kinoshita, I. Nakanishi, T. Terasaka, M. Kuno, N. Seki, M. Warizaya, H. Matsumura, T. Inoue, K. Takano, H. Adachi, Y. Mori, T. Fujii
Biochemistry, **44**, (2005), 10562-10569
- [81] "X-ray Study of Forensic Samples at the SPring-8"
T. Ninomiya
Journal of X-Ray Science and Technology, **13**, (2005), 109-116
- [82] "The Novel Gluconeogenesis Inhibitor FR225654 that Originates from *Phoma* sp. No. 00144 III. Structure Determination"
Y. Ohtsu, S. Yoshimura, T. Kinoshita, S. Takase, H. Nakajima
The Journal of Antibiotics, **58**, (2005), 479-482
- [83] "In-Plane Strain Distribution in the Surface Region of Thin Silicon Overlayers on Insulator"
H. Omi, T. Kawamura, S. Fujikawa, Y. Tsusaka, Y. Kagoshima, J. Matsui
Applied Physics Letters, **86**, (2005), 263112
- [84] "Rational Design of Non-Nucleoside, Potent, and Orally Bioavailable Adenosine Deaminase Inhibitors: Predicting Enzyme Conformational Change and Metabolism"
T. Terasaka, K. Tsuji, T. Kato, I. Nakanishi, T. Kinoshita, Y. Kato, M. Kuno, T. Inoue, K. Tanaka, K. Nakamura
Journal of Medicinal Chemistry, **48**, (2005), 4750-4753
[2006]
- [85] "Conformational Restraints Induced by Modification of Configuration of Threonine and Oxazoline Residues in Ascidiacyclamide Analogues"
A. Asano, Y. Katsuya, T. Taniguchi, M. Sasaki, T. Yamada, M. Doi
The Journal of Peptide Research, **66**, (2006), 90-98

BL32B2

Refereed Journals

- [1] "Rational Approaches to Discovery of Orally Active and Brain-Penetrable Quinazolinone Inhibitors of Poly(ADP-ribose)polymerase"
K. Hattori, T. Kinoshita, Y. Kido, H. Kamijo, M. Ohkubo, A. Iwashita, K. Mihara, S. Yamasaki, N. Matsuoka, Y. Teramura, H. Miyake
Journal of Medicinal Chemistry, **47**, (2004), 4151-4154
- [2] "The Crystal Structure of Human Dipeptidyl Peptidase IV (DPP-IV) Complex with Diprotin A"
H. Hiramatsu, A. Yamamoto, K. Kyono, Y. Higashiyama, C. Fukushima, H. Shima, S. Sugiyama, K. Inaka, R. Shimizu
Biological Chemistry, **385**, (2004), 561-564
- [3] "Crystal Structure of Human ISG20, an Interferon-Induced Antiviral Ribonuclease"
T. Horio, M. Murai, T. Hamasaki
FEBS Letters, **577**, (2004), 111-116