

- [123] "Crystal Structure and Functional Characterization of a D-Stereospecific Amino Acid Amidase from *Ochrobactrum anthropi* SV3, a New Member of the Penicillin-recognizing Proteins"
S. Okazaki, Y. Asano, A. Suzuki, H. Komeda, S. Yamaguchi, T. Yamane
Journal of Molecular Biology, **368**, (2007), 79-91
- [124] "Structural Basis of the 3'-end Recognition of a Leading Strand in Stalled Replication Forks by PriA"
K. Sasaki, T. Ose, N. Okamoto, K. Maenaka, T. Tanaka, H. Masai, M. Saito, T. Shirai, D. Kohda
The EMBO Journal, **26**, (2007), 2584-2593
- [125] "Preparation, Crystallization and Preliminary Crystallographic Analysis of Old Yellow Enzyme from *Trypanosoma cruzi*"
S. Sugiyama, K. Tokuoka, N. Okamoto, H. Matsumura, N. Uchiyama, Y. Okano, Y. Urade, K. Inaka, T. Inoue
Acta Crystallographica Section F, **63**, (2007), 896-898
- [126] "An Atomic Level Study of Rhenium and Radiogenic Osmium in Molybdenite"
Y. Takahashi, H. Tanida, T. Uruga, Y. Terada, K. Suzuki
Geochimica et Cosmochimica Acta, **71**, (2007), 5180-5190
- [127] "Crystal Structures of CbiL, a Methyltransferase Involved in Vitamin B₁₂ Biosynthesis, and CbiL in Complex with S-adenosylhomocysteine - Implications for the Reaction Mechanism"
K. Wada, J. Harada, Y. Yaeda, H. Tamiaki, H. Oh-oka, K. Fukuyama
The FEBS Journal, **274**, (2007), 563-573
- [128] "Crystal Structures of [NiFe] Hydrogenase Maturation Proteins, HypC, HypD and HypE: Insights into Cyanation Reaction by Thiol Redox Signaling"
S. Watanabe, R. Matsumi, T. Arai, H. Atomi, T. Imanaka, K. Miki
Molecular Cell, **27**, (2007), 29-40
- [129] "'Crystal Lattice Engineering' an Approach to Engineer Protein Crystal Contacts by Creating Intermolecular Symmetry: Crystallization and Structure Determination of a Mutant Human RNase 1 with a Hydrophobic Interface of Leucines"
H. Yamada, T. Tamada, M. Kosaka, K. Miyata, S. Fujiki, M. Tanou, M. Moriya, M. Yamanishi, E. Honjo, H. Murata, T. Ino, H. Yamaguchi, J. Futami, M. Seno, T. Nomoto, T. Hirata, M. Yoshimura, R. Kuroki
Protein Science, **16**, (2007), 1389-1397
- [130] "Crystal Structure of Type 1 Ribonuclease H from Hyperthermophilic Archaeon *Sulfolobus tokodaii*: Role of Arginine 118 and C-terminal Anchoring"
D. You, H. Chon, Y. Koga, K. Takano, S. Kanaya
Biochemistry, **46**, (2007), 11494-11503
- [2008]
- [131] "Structure and Quantum Chemical Analysis of NAD⁺-Dependent Isocitrate Dehydrogenase : Hydride Transfer and Co-factor Specificity"
K. Imada, T. Tamura, R. Takenaka, I. Kobayashi, K. Namba, K. Inagaki
Proteins: Structure, Function, and Bioinformatics, **70**, (2008), 63-71
- [132] "Novel Cation-π Interaction Revealed by Crystal Structure of Thermoalkalophilic Lipase"
H. Matsumura, T. Inoue, T. Yamamoto, T. Leow, T. Mori, A. Salleh, Y. Kai, R. Rahman
Proteins: Structure, Function, and Bioinformatics, **70**, (2008), 592-598
- [133] "Crystal Structures of D-amino Acid Amidase Complexed with L-phenylalanine and L-phenylalanine Amide: Insight into D-stereospecificity of D-amino Acid Amidase from *Ochrobactrum anthropi* SV3"
S. Okazaki, A. Suzuki, T. Mizushima, H. Komeda, Y. Asano, T. Yamane
Acta Crystallographica Section D, **64**, (2008), 331-334
- [134] "Crystal Structure of 5-methylthioribose 1-phosphate Isomerase Product Complex from *Bacillus Subtilis*: Implications for Catalytic Mechanism"
H. Tamura, T. Inoue, Y. Saito, Y. Kai, H. Ashida, A. Yokota, H. Matsumura
Protein Science, **17**, (2008), 126-135

BL39XU

Refereed Journals

[1998]

- [1] "X-Ray Microprobe System for XRF Analysis and Spectroscopy at SPring-8 BL39XU"
S. Hayakawa, S. Goto, T. Shoji, E. Yamada, Y. Gohshi
Journal of Synchrotron Radiation, **5**, (1998), 1114-1116
- [2] "Atomic-Resolution X-Ray Fluorescence Holography of Zn(0.02wt%) in a GaAs Wafer"
K. Hayashi, T. Yamamoto, J. Kawai, M. Suzuki, S. Goto, S. Hayakawa, K. Sakurai, Y. Gohshi
Analytical Sciences, **14**, (1998), 987-990
- [3] "A Grazing-Incidence Reflectometer for BL-39XU at SPring-8"
K. Sakurai, S. Uehara, S. Goto
Journal of Synchrotron Radiation, **5**, (1998), 554-556

- [4] "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
[1999]
- [5] "Measurements of ATS Scattering from Magnetite near the Fe K-Absorption Edge in the Temperature Range 290K-80K"
K. Hagiwara, M. Kanazawa, K. Horie, J. Kokubun, K. Ishida
Journal of the Physical Society of Japan, **68**, (1999), 1592-1597
- [6] "A Wavelength Dispersive X-Ray Spectrometer for Small Area X-Ray Fluorescence Spectroscopy at SPring-8 BL39XU"
S. Hayakawa, A. Yamaguchi, W. Hong, Y. Gohshi, T. Yamamoto, K. Hayashi, J. Kawai, S. Goto
Spectrochimica Acta Part B, **54**, (1999), 171-177
- [7] "X-Ray Spectroscopic Study of Electronic States in 3d Transition Metal Compounds"
N. Kawamura
Doctor Thesis (Okayama University), (1999)
- [8] "Polarization Tunability and Analysis for Observing Magnetic Effects on BL39XU at SPring-8"
H. Maruyama, M. Suzuki, N. Kawamura, M. Ito, E. Arakawa, J. Kokubun, K. Hirano, K. Horie, S. Uemura, K. Hagiwara, M. Mizumaki, S. Goto, H. Kitamura, K. Namikawa, T. Ishikawa
Journal of Synchrotron Radiation, **6**, (1999), 1133-1137
- [9] "X-Ray Fluorescence Analysis with a Johansson-Type Spectrometer"
K. Sakurai, H. Eba
Japanese Journal of Applied Physics, **38**, (1999), 650-653
- [10] "Grazing Incidence X-Ray Fluorescence and Scattering Experiments at BL-39XU, SPring-8"
K. Sakurai, H. Eba, S. Goto
Japanese Journal of Applied Physics, **38**, (1999), 332-335
- [11] "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
- [12] "Development and Application of Multi-Purpose X-Ray Fluorescence Analyzer Using Synchrotron and Conventional X-Ray Sources"
Y. Terada, N. Kondo, M. Kataoka, M. Izumiya, I. Nakai, S. Goto
X-Ray Spectrometry, **28**, (1999), 461-463
[2000]
- [13] "Fe K-Edge X-Ray Magnetic Circular Dichroism Study in R₆Fe₂₃ (R=Ho and Y) Compounds near Compensation Temperature"
J. Chaboy, Luis M. Garcia, F. Bartolome, H. Maruyama, S. Uemura, N. Kawamura, A. S. Markosyan
Journal of Applied Physics, **88**, (2000), 336-338
- [14] "Trace Chemical Characterization Using Monochromatic X-Ray Undulator Radiation"
H. Eba, C. Numako, J. Iihara, K. Sakurai
Analytical Chemistry, **72**, (2000), 2613-2617
- [15] "Spectromicroscopy Using an X-Ray Microprobe at SPring-8 BL39XU"
S. Hayakawa, T. Hirokawa, Y. Gohshi, M. Suzuki, S. Goto
X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507), **CP507**, (2000), 92-97
- [16] "Local Atomic Image of 0.02% Zn in GaAs Wafers Using X-Ray Holography"
K. Hayashi, T. Yamamoto, J. Kawai, M. Suzuki, S. Goto, S. Hayakawa, K. Sakurai, Y. Gohshi
Advances in X-Ray Analysis, **42**, (2000), 181-190
- [17] "Anomalous Magnetic Hysteresis of Gd and Fe Moments in a Gd/Fe Multilayer Measured by Hard X-Ray Magnetic Circular Dichroism"
A. Koizumi, M. Takagaki, M. Suzuki, N. Kawamura, N. Sakai
Physical Review B, **61**, (2000), R14909-R14912
- [18] "Mapping of a Particular Element Using an Absorption Edge with an X-Ray Fluorescence Imaging Microscope"
K. Yamamoto, N. Watanabe, A. Takeuchi, H. Takano, T. Aota, M. Fukuda, S. Aoki
Journal of Synchrotron Radiation, **7**, (2000), 34-39
- [19] "Elemental Mapping with an X-Ray Fluorescence Imaging Microscope"
K. Yamamoto, N. Watanabe, A. Takeuchi, H. Takano, T. Aota, M. Kumegawa, T. Ohigashi, R. Tanoue, H. Yokosuka, S. Aoki
X-Ray Microscopy: Proceedings of the Sixth International Conference (AIP Conference Proceedings 507), **CP507**, (2000), 259-262

- [2001]
- [20] "Distribution and Chemical States of Iron and Chromium Released from Orthopedic Implants into Human Tissues"
A. Ektessabi, S. Shikine, N. Kitamura, M. Rokkum, C. Johansson
X-Ray Spectrometry, **30**, (2001), 44-48
 - [21] "Chemical State Analysis of Iron in Nerve Cells"
S. Fujisawa, A. M. Ektessabi, S. Yoshida
Application of Accelerators in Research and Industry: Sixteenth International Conference (AIP Conference Proceedings 576), **CP576**, (2001), 707-710
 - [22] "Generation of an X-Ray Microbeam for Spectromicroscopy at SPring-8 BL39XU"
S. Hayakawa, N. Ikuta, M. Suzuki, M. Wakatsuki, T. Hirokawa
Journal of Synchrotron Radiation, **8**, (2001), 328-330
 - [23] "Development of a Compact Beam Intensity Monitor for Micro X-Ray Absorption Fine Structure Measurements"
S. Hayakawa, M. Suzuki, M. Oshima, T. Hirokawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 901-904
 - [24] "Ultra Trace Characterization Using an X-Ray Microprobe at SPring-8 BL39XU"
S. Hayakawa, S. Tohno, K. Takagawa, A. Hamamoto, Y. Nishida, M. Suzuki, Y. Sato, T. Hirokawa
Analytical Sciences, **17**.Supplement, (2001), i115-i117
 - [25] "Development of X-Ray Fluorescence Holography Method for Determination of Local Atomic Environment"
K. Hayashi, Y. Takahashi, E. Matsubara, S. Kishimoto, T. Mori, M. Tanaka, S. Hayakawa, M. Suzuki
The Fourth Pacific Rim International Conference on Advanced Materials and Processing (PRICM4), (2001), 567-570
 - [26] "X-Ray Magnetic Circular Dichroism Studies of Fe₄N under High-Pressure"
N. Ishimatsu, Y. Ohishi, M. Suzuki, N. Kawamura, M. Ito, H. Maruyama, S. Nasu, T. Kawakami, O. Shimomura
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1061-1064
 - [27] "Ce 5d and Fe 3d Magnetic Profiles in CeH₂/Fe Multilayers Probed by XRMS"
N. Jaouen, J. Tonnerre, D. Raoux, L. Ortega, E. Bontempi, M. Munzenberg, W. Felsch, M. Suzuki, H. Maruyama, H. A. Durr, E. Dudzik, G. van der Laan
Applied Physics A, **73**, (2001), 711-715
 - [28] "Microbeam XANES and X-Ray Fluorescence Analysis of Cadmium in Kidney"
J. Kawai, K. Takagawa, S. Fujisawa, A. Ektessabi, S. Hayakawa
Journal of Trace and Microprobe Techniques, **19**, (2001), 541-546
 - [29] "Multielectron Excitations Probed by Helicity-Modulation XMCD at K-Edge in 3d Transition Metal Compounds"
N. Kawamura, T. Yamamoto, H. Maruyama, I. Harada, M. Suzuki, T. Ishikawa
Journal of Synchrotron Radiation, **8**, (2001), 410-412
 - [30] "XAFS in a Single Macrophage Cell"
N. Kitamura, A. M. Ektessabi
Journal of Synchrotron Radiation, **8**, (2001), 981-983
 - [31] "Study of Magnetic Materials Using Helicity-Modulated X-Ray Magnetic Circular Dichroism"
H. Maruyama
Journal of Synchrotron Radiation, **8**, (2001), 125-128
 - [32] "Development of a Wavelength Dispersive X-Ray Fluorescence Spectrometer Using an X-Ray CCD"
Y. Sato, S. Hayakawa, Y. Nishida, A. Hamamoto, M. Suzuki, T. Hirokawa
Analytical Sciences, **17**(supplement), (2001), i1201-i1203
 - [33] "Tuning of X-Ray Phase Retarder for Magnetic EXAFS Spectroscopy in Helicity Modulation Mode"
M. Suzuki, N. Kawamura, T. Ishikawa
Journal of Synchrotron Radiation, **8**, (2001), 357-359
 - [34] "Mn K-Edge XMCD in Mn₃MC (M=Zn and Ga) Perovskite"
S. Uemoto, H. Maruyama, N. Kawamura, S. Uemura, N. Kitamoto, H. Nakao, S. Hara, M. Suzuki, D. Fruchart, H. Yamazaki
Journal of Synchrotron Radiation, **8**, (2001), 449-451
 - [35] "Study on Electronic States of 3d Magnetic Atoms in Local Environment —Experiments of X-Ray Magnetic Circular Dichroism and Calculations Based on Multiple Scattering Theory—"
S. Uemura
Doctor Thesis (Okayama University), (2001)
 - [36] "X-Ray Fluorescence Microtomography with a Wolter Mirror System"
N. Watanabe, K. Yamamoto, H. Takano, T. Ohigashi, H. Yokosuka, T. Aota, S. Aoki
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 837-840

- [37] "XANES Spectroscopy of a Single Neuron from a Patient with Parkinson's Disease"
 S. Yoshida, A. Ektessabi, S. Fujisawa
Journal of Synchrotron Radiation, **8**, (2001), 998-1000
 [2002]
- [38] "Chemical State Imaging of Iron in Nerve Cells from a Patient with Parkinsonism-Dementia Complex"
 A. Ektessabi, S. Fujisawa, S. Yoshida
Journal of Applied Physics, **91**, (2002), 1613-1617
- [39] "Refinement of X-Ray Fluorescence Holography for Determination of Local Atomic Environment"
 K. Hayashi, Y. Takahashi, E. Matsubara
Materials Transactions, **43**, (2002), 1464-1468
- [40] "Photon Interference Effect in X-Ray Absorption Spectra over a Wide Energy Range"
 Y. Nishino, T. Ishikawa, M. Suzuki, N. Kawamura, P. Kappen, P. Korecki, N. Haack, G. Materlik
Physical Review B, **66**, (2002), 113103
- [41] "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
- [42] "Fast Multigrid Fluorescent Ion Chamber with 0.1 ms Time Response"
 M. Suzuki, N. Kawamura, Farrel W. Lytle, T. Ishikawa
Journal of Synchrotron Radiation, **9**, (2002), 99-102
 [2003]
- [43] "Relationship between Hydriding and Nd Magnetic Moment in Nd₂Fe₁₄B"
 J. Chaboy, C. Piquer, N. Plugaru, M. Artigas, H. Maruyama, N. Kawamura, M. Suzuki
Journal of Applied Physics, **93**, (2003), 475-478
- [44] "Characterization of Individual Aerosol Particles Using an X-Ray Microprobe"
 S. Hayakawa, S. Tohno, A. Hamamoto, M. Suzuki, T. Hirokawa
Journal de Physique IV France, **104**, (2003), 309-312
- [45] "X-Ray Magnetic Circular Dichroism Study of Metamagnetic Behaviour in the Heavy-Fermion System CeRu₂Si₂"
 T. Honma, N. Kawamura, M. Suzuki, M. Mizumaki, H. Maruyama, N. Ishimatsu, Y. Inada, Y. Onuki
Journal of Physics: Condensed Matter, **15**, (2003), S2171-S2174
- [46] "Pressure-Induced Magnetic Transition in Fe₄N Probed by Fe K-edge XMCD Measurement"
 N. Ishimatsu, H. Maruyama, N. Kawamura, M. Suzuki, Y. Ohishi, M. Ito, S. Nasu, T. Kawakami, O. Shimomura
Journal of the Physical Society of Japan, **72**, (2003), 2372-2376
- [47] "Evolution of the K α X-Ray Satellites for Fe, Ni and Zn : from Threshold to Saturation"
 K. Kawatsura, T. Morikawa, K. Takahiro, M. Oura, H. Yamaoka, K. Maeda, S. Hayakawa, S. Ito, M. Terasawa, T. Mukoyama
Journal of Physics B: Atomic, Molecular and Optical Physics, **36**, (2003), 4065-4072
- [48] "Magnetic X-Ray Absorption Fine Structure for Ni-Mn Alloys"
 T. Miyanaga, T. Okazaki, R. Maruko, K. Takegahara, S. Nagamatsu, T. Fujikawa, H. Kon, Y. Sakisaka
Journal of Synchrotron Radiation, **10**, (2003), 113-119
- [49] "Element-Specified Observation of Surface-Influenced Magnetization Process in Gd/Fe Multilayer"
 M. Takagaki, A. Koizumi, N. Kawamura, M. Suzuki, N. Sakai
Journal of the Physical Society of Japan, **72**, (2003), 245-248
- [50] "Investigation of Spin Structure in Gd/Fe Artificial Lattices by Element-Selective X-Ray Magnetic Circular Dichroism Measurement"
 M. Takagaki
Doctor Thesis (Himeji Institute of Technology), (2003)
- [51] "Polarized Total-Reflection X-Ray Absorption Fine Structure for Self-Assembled Monolayer of Zinc Porphyrin at Air-Water Interface"
 H. Tanida, H. Nagatani, I. Watanabe
The Journal of Chemical Physics, **118**, (2003), 10369-10371
- [52] "Application of Synchrotron Radiation in Neuromicrobiology: Role of Iron in Parkinson's Disease"
 S. Yoshida, A. Ide-Ektessabi, S. Fujisawa
Structural Chemistry, **14**, (2003), 85-95
- [53] "Structure, Magnetism and Transport of La₂NiRuO₆"
 K. Yoshii, H. Abe, M. Mizumaki, H. Tanida, N. Kawamura
Journal of Alloys and Compounds, **348**, (2003), 236-240

- [2004]
- [54] "Experimental System for X-ray Magnetic Diffraction under Extreme Conditions"
E. Arakawa, M. Ito, N. Ishimatsu, M. Suzuki, N. Kawamura, H. Sakurai, F. Itoh, Y. Honma, A. Ochiai, Y. Akahama, H. Maruyama, K. Namikawa, O. Shimomura
Journal of Physics and Chemistry of Solids, **65**, (2004), 2089-2092
- [55] "Influence of Magnetocrystalline Anisotropy on Rare-Earth $L_{2,3}$ -Edge X-Ray Magnetic Circular Dichroism Spectra"
J. Chaboy, H. Maruyama, N. Kawamura, M. Suzuki
Physical Review B, **69**, (2004), 014427
- [56] "Rare-Earth Orbital Contribution to the Fe K -edge X-ray Magnetic Circular Dichroism in Rare-Earth Transition Metal Intermetallic Compounds"
J. Chaboy, M. Laguna-Marco, M. Sanchez, H. Maruyama, N. Kawamura, M. Suzuki
Physical Review B, **69**, (2004), 134421
- [57] "Measurement of Resonant X-ray Magnetic Scattering from Induced Cu Polarizations in Exchange-Coupled Co/Cu Multilayers"
Y. Hayasaki, K. Ishiji, H. Hashizume, N. Hosoi, K. Omote, M. Kurabayashi, G. Srajer, J. C. Lang, D. Haskel
Journal of Physics: Condensed Matter, **16**, (2004), 1915-1925
- [58] "Lifetime-Broadening-Suppressed Polarized Cu K X-ray Absorption Near Edge Structure of $Nd_{2-x}Ce_xCuO_4$ Measured by Resonant Inelastic X-ray Scattering Spectroscopy"
H. Hayashi, R. Takeda, M. Kawata, Y. Udagawa, Y. Watanabe, T. Takano, S. Nanao, N. Kawamura, T. Uefuji, K. Yamada
Journal of Electron Spectroscopy and Related Phenomena, **136**, (2004), 199-204
- [59] "XMCD Study of $RFe_{11}Ti$ Intermetallic Compounds"
M. Laguna, J. Chaboy, C. Sánchez, H. Maruyama, N. Kawamura, M. Suzuki
Journal of Magnetism and Magnetic Materials, **272-276**, (2004), 2144-2155
- [60] "Temperature Dependence of the Ho $L_{2,3}$ -edges XMCD Spectra in Ho_6Fe_{23} "
M. Laguna-Marco, J. Chaboy-Nalda, H. Maruyama
Physica B, **345**, (2004), 197-200
- [61] "Properties of Individual Asian Dust Storm Particles Collected at Kosan, Korea during ACE-Asia"
C. Ma, S. Tohno, M. Kasahara, S. Hayakawa
Atmospheric Environment, **38**, (2004), 1133-1143
- [62] "Determination of the Chemical Properties of Residues Retained in Individual Cloud Droplets by XRF Microprobe at SPring-8"
C. Ma, S. Tohno, M. Kasahara, S. Hayakawa
Nuclear Instruments and Methods in Physics Research Section B, **217**, (2004), 657-665
- [63] "Properties of the Size-Resolved and Individual Cloud Droplets Collected in the Western Japan during Asian Dust Storm Event"
C. Ma, S. Tohno, M. Kasahara, S. Hayakawa
Atmospheric Environment, **38**, (2004), 4519-4529
- [64] "XMCD Study of Electronic States in Rare-Earth Iron Garnet"
H. Maruyama, N. Kawamura
Journal of Electron Spectroscopy and Related Phenomena, **136**, (2004), 135-141
- [65] "Measurement and Multiple-Scattering Calculation of Cu K -edge X-ray Magnetic Circular Dichroism Spectra from an Exchange-Coupled Co/Cu Multilayer"
S. Nagamatsu, H. Matsumoto, T. Fujikawa, K. Ishiji, H. Hashizume
Physical Review B, **70**, (2004), 174442
- [66] "Induced Magnetic Polarization in Cu Layers of Gd/Cu Multilayers Studied by X-ray Magnetic Circular Dichroism"
T. Ohkochi, N. Hosoi, K. Mibu, H. Hashizume
Journal of the Physical Society of Japan, **73**, (2004), 2212-2218
- [67] "X-Ray Magnetic Circular Dichroism and Structural Model for Co-Doped TiO_2 (Anatase) Thin Film"
N. Shimizu, S. Sasaki, T. Hanashima, K. Yamawaki, H. Udagawa, N. Kawamura, M. Suzuki, H. Maruyama, M. Murakami, Y. Matsumoto, H. Koinuma
Journal of the Physical Society of Japan, **73**, (2004), 800-803
- [68] "Direct Observation of Ferromagnetic Spin Polarization in Gold Nanoparticles"
Y. Yamamoto, T. Miura, M. Suzuki, N. Kawamura, H. Miyagawa, T. Nakamura, K. Kobayashi, T. Teranishi, H. Hori
Physical Review Letters, **93**, (2004), 116801
- [69] "Neutron Diffraction and X-ray Absorption Study of $CaMn_{0.6}Ru_{0.4}O_3$ "
K. Yoshii, A. Nakamura, M. Mizumaki, H. Tanida, N. Kawamura, H. Abe, Y. Ishii, Y. Shimojo, Y. Morii
Journal of Magnetism and Magnetic Materials, **272-276**, (2004), E609-E611

[2005]

- [70] "Inverse Fourier Analysis in X-ray Fluorescence Holography"
K. Hayashi
Physical Review B, **71**, (2005), 224104
- [71] "Probing the Magnetic Polarizations of Delocalized Electrons in Exchange-coupled Co/CuNi Multilayers by X-ray Magnetic Circular Dichroism Measurements"
K. Ishiji, H. Yamasaki, T. Masui, H. Hashizume
Journal of the Physical Society of Japan, **74**, (2005), 753-757
- [72] "Ga Magnetic Polarization in Mn₃GaC under High Pressure Probed by Ga K-Edge XMCD"
N. Kawamura, N. Ishimatsu, M. Isshiki, Y. Komatsu, H. Maruyama
Physica Scripta, **T115**, (2005), 591-593
- [73] "Revealing Fe Magnetism in Lanthanide-Iron Intermetallic Compounds by Tuning the Rare-Earth L_{2,3}-edge X-ray Absorption Edges"
M. Laguna-Marco, J. Chaboy, C. Piquer, H. Maruyama, N. Ishimatsu, N. Kawamura, M. Takagaki, M. Suzuki
Physical Review B, **72**, (2005), 052412
- [74] "Element-Selective Thermal X-ray Magnetic Circular Dichroism Study through the Magnetic Compensation Temperature of Ho₆Fe₂₃"
M. Laguna-Marco, J. Chaboy, H. Maruyama
Physical Review B, **72**, (2005), 094408
- [75] "A Case Study of the Size-Resolved Individual Particles Collected at a Ground-Based Site on the West Coast of Japan during an Asian Dust Storm Event"
C. Ma, S. Tohno, M. Kasahara
Atmospheric Environment, **39**, (2005), 739-747
- [76] "Investigation of Structural and Electronic Properties in Ru Perovskite Oxides by XAFS Measurements"
M. Mizumaki, K. Yoshii, Y. Hinatsu, T. Doi, T. Uruga
Physica Scripta, **T115**, (2005), 513-515
- [77] "Depth-Selective Measurements of Induced Magnetic Polarization in Cu Layers of Gd/Cu Multilayers by ¹¹⁹Sn Mössbauer Spectroscopy"
T. Ohkouchi, N. Hosooito, K. Mibu
Journal of Physics: Condensed Matter, **17**, (2005), 4023-4033
- [78] "Depth Profile of Spin and Orbital Magnetic Moments in a Subnanometer Pt Film on Co"
M. Suzuki, H. Muraoka, Y. Inaba, H. Miyagawa, N. Kawamura, T. Shimatsu, H. Maruyama, N. Ishimatsu, Y. Isohama, Y. Sonobe
Physical Review B, **72**, (2005), 054430
- [79] "Magnetic Moment in the Top Pt Layer of Co/Pt Bilayers"
M. Suzuki, H. Miyagawa, N. Kawamura, H. Muraoka, Y. Inaba, T. Shimatsu, Y. Sonobe, Y. Isohama, N. Nakamura, N. Ishimatsu, H. Maruyama
Physica Scripta, **T115**, (2005), 580-582

[2006]

- [80] "Effects of Swift Heavy Ion Irradiation on Magnetic Properties of Fe-Rh Alloy"
M. Fukuzumi, Y. Chimi, N. Ishikawa, M. Suzuki, M. Takagaki, J. Mizuki, F. Ono, R. Neumann, A. Iwase
Nuclear Instruments and Methods in Physics Research Section B, **245**, (2006), 161-165
- [81] "Polarized Lifetime-Broadening-Suppressed XANES Study of La_{2-x}Sr_xCuO₄"
H. Hayashi, T. Azumi, A. Sato, R. Takeda, M. Kawata, Y. Udagawa, N. Kawamura, K. Yamada, K. Ikeuchi
Radiation Physics and Chemistry, **75**, (2006), 1586-1590
- [82] "Magnetic Polarization of Cu Layers in Exchange-Coupled Co/Cu Multilayers"
K. Ishiji, H. Hashizume, Y. Suzuki, E. Tamura
Physical Review B, **74**, (2006), 174432
- [83] "Local Electronic Structure Analysis Using a Photoelectron Emission Microscope (PEEM) with Hard X-ray"
M. Kotsugi, T. Wakita, T. Taniuchi, K. Ono, M. Suzuki, N. Kawamura, M. Takagaki, M. Taniguchi, K. Kobayashi, M. Oshima, N. Ishimatsu, H. Maruyama
e-Journal of Surface Science and Nanotechnology, **4**, (2006), 490-493
- [84] "Elemental Distribution in Individual Rain Droplets Determined by a Combination of the Replication Method and the Synchrotron Radiation X-ray Fluorescence Microprobe Technique"
C. Ma, S. Tohno, M. Kasahara, S. Hayakawa
Analytical Sciences, **22**, (2006), 415-419

- [85] "Study of the Electronic Structure of SmNiC₂ by X-ray Magnetic Circular Dichroism Measurements"
M. Mizumaki, N. Kawamura, H. Onodera
Physica Status Solidi C, **3**, (2006), 2767-2770
- [86] "XAS and MCD Studies in Laves Compounds with Multi-Magnetic Phase Transitions"
M. Mizumaki, K. Yoshii, N. Kawamura, Y. Watanabe, S. Nanao
Physica Status Solidi C, **3**, (2006), 2762-2766
- [87] "Zinc(II) Porphyrins at the Air-Water Interface As Studied by Polarized Total-Reflection X-ray Absorption Fine Structure"
H. Nagatani, H. Tanida, T. Ozeki, I. Watanabe
Langmuir, **22**, (2006), 209-212
- [88] "X-Ray Magnetic Circular Dichroism of Size-Selected, Thiolated Gold Clusters"
Y. Negishi, H. Tsunoyama, M. Suzuki, N. Kawamura, M. Matsushita, K. Maruyama, T. Sugawara, T. Yokoyama, T. Tsukuda
Journal of the American Chemical Society, **128**, (2006), 12034-12035
- [89] "Depth Profile of Induced Spin Polarization in Au Layers of Fe/Au(001) Superlattices by Resonant X-ray Magnetic Scattering"
T. Ohkochi, K. Mibu, N. Hosooito
Journal of the Physical Society of Japan, **75**, (2006), 104707
[2007]
- [90] "Relationship between the Magnetic Moment of Lu and the Magnetic Behavior of (Y_yLu_{1-y})(Co_{1-x}Al_x)₂ from X-ray Absorption Spectroscopy and X-ray Magnetic Circular Dichroism"
J. Chaboy, M. A. Laguna-Marco, C. Piquer, H. Maruyama, N. Kawamura, N. Ishimatsu, M. Suzuki, M. Takagaki
Physical Review B, **75**, (2007), 064410
- [91] "X-ray Magnetic Circular Dichroism Study of the Decoupling of the Magnetic Ordering of the Er and Co Sublattices in (Er_{1-x}Y_x)Co₂ Systems"
J. Chaboy, M. Laguna, H. Maruyama, N. Ishimatsu, S. Kusano, N. Kawamura
Physical Review B, **75**, (2007), 144405
- [92] "Ab-initio X-ray Absorption Study of Mn K-edge XANES Spectra in Mn₃MC (M = Sn, Zn and Ga) Compounds"
J. Chaboy, H. Maruyama, N. Kawamura
Journal of Physics: Condensed Matter, **19**, (2007), 216214
- [93] "Annealing Influence on the Atomic Ordering and Magnetic Moment in a Ni-Mn-Ga Alloy"
J. Gutiérrez, J. Chaboy, M. Barandiaran, P. Lázpita, M. Fdez-Gubieda, N. Kawamura
Journal of Magnetism and Magnetic Materials, **316**, (2007), e610-e613
- [94] "Distribution of the Magnetic Scattering Amplitudes in the Fe/Cu Multilayer Investigated by Resonant Magnetic Diffraction with Circularly Polarized Hard X-rays"
N. Hosooito, K. Ishibashi, T. Ohkouchi, K. Kodama, Y. Hayasaki
Journal of Physics and Chemistry of Solids, **68**, (2007), 2153-2157
- [95] "Experimental Evidence of Pressure-induced Suppression of the Cobalt Magnetic Moment in ErCo₂"
N. Ishimatsu, S. Miyamoto, H. Maruyama, J. Chaboy, M. Laguna, N. Kawamura
Physical Review B, **75**, (2007), 180402(R)
- [96] "Stability of Ferromagnetism in Fe, Co, and Ni Metals under High Pressure"
N. Ishimatsu, H. Maruyama, N. Kawamura, M. Suzuki, Y. Ooishi, O. Shimomura
Journal of the Physical Society of Japan, **76**, (2007), 064703
- [97] "Study on Irradiation-Induced Magnetic Transition in FeRh Alloys by Means of Fe K-edge XMCD Spectroscopy"
A. Iwase, M. Fukuzumi, Y. Zushi, M. Suzuki, M. Takagaki, N. Kawamura, Y. Chimi, N. Ishikawa, J. Mizuki, F. Ono
Nuclear Instruments and Methods in Physics Research Section B, **256**, (2007), 429-433
- [98] "Study of 4p Electronic States Related to Magnetic Phase Transition in Mn₃MC (M=Zn and Ga) by X-ray Magnetic Circular Dichroism"
N. Kawamura, H. Maruyama, M. Suzuki, T. Ishikawa
Journal of the Physical Society of Japan, **76**, (2007), 074716
- [99] "Rotation of a Gd Moment Vector in an Fe/FeGd/Fe Trilayer Observed by Hysteresis Measurements of the Resonant X-ray Magnetic Reflectivity"
K. Kodama, N. Hosooito
Japanese Journal of Applied Physics, **46**, (2007), 3402-3405
- [100] "XMCD Study of the Magnetic Behavior of in R(Al_{1-x}Fe_x)₂ Compounds"
M. Laguna, J. Chaboy, C. Piquer, H. Maruyama, N. Kawamura, M. Takagaki
Journal of Magnetism and Magnetic Materials, **316**, (2007), e425-e427

- [101] "The Mixed States in the Unconventional Heavy Fermion Compound SmOs₄Sb₁₂"
M. Mizumaki, S. Tsutsui, T. Uruga, H. Tanida, D. Kikuchi, H. Sugawara, H. Sato
Journal of the Physical Society of Japan, **76**, (2007), 053706
- [102] "Cu K Edge X-ray Magnetic Circular Dichroism of Amorphous Gd₆₈Cu₃₂"
I. Nakai, H. Tanaka, A. Kitabatake, J. Fukuoka, S. Yamada, N. Ohnishi
Journal of Magnetism and Magnetic Materials, **310**, (2007), 1868-1870
- [103] "Characterization of SiN_x/Ga_xIn_{1-x}As Interface using Hard X-ray Photoemission Spectroscopy"
Y. Saito, M. Ito, M. Nakamura, A. Kimura, K. Yamaguchi
Japanese Journal of Applied Physics, **46**, (2007), 5771-5773
- [104] "Development of the Total-Reflection XAFS Method for the Liquid-liquid Interface"
H. Tanida, H. Nagatani, M. Harada
Journal of Physics: Conference Series, **83**, (2007), 012019-012023
[2008]
- [105] "Chemically Induced Permanent Magnetism in Au, Ag, and Cu Nanoparticles: Localization of the Magnetism by Element Selective Techniques"
J. Garitaonandia, M. Insausti, E. Goikolea, M. Suzuki, J. Cashion, N. Kawamura, H. Osawa, I. Muro, K. Suzuki, F. Plazaola, T. Rojo
Nano Letters, **8**, (2008), 661-667
- [106] "Can K β Bands be a Probe for State-Selective XAFS Measurements?"
H. Hayashi
X線分析の進歩 (Advances in X-ray Chemical Analysis, Japan), **39**, (2008), 129-136

BL40B2

Refereed Journals

[2000]

- [1] "Crystallization of the F41 Fragment of Flagellin and Data Collection from Extremely Thin Crystals"
Fadel A. Samatey, K. Imada, F. Vonderviszt, Y. Shirakihara, K. Namba
Journal of Structural Biology, **132**, (2000), 106-111

[2001]

- [2] "Crystal Structure of *cis*-Prenyl Chain Elongating Enzyme, Undecaprenyl Diphosphate Synthase"
M. Fujihashi, Y. Zhang, Y. Higuchi, X. Li, T. Koyama, K. Miki
Proceedings of the National Academy of Sciences of the United States of America, **98**, (2001), 4337-4342

- [3] "Crystal Structure of Thermostable DNA Photolyase: Pyrimidine-Dimer Recognition Mechanism"
H. Komori, R. Masui, S. Kuramitsu, S. Yokoyama, T. Shibata, Y. Inoue, K. Miki
Proceedings of the National Academy of Sciences of the United States of America, **98**, (2001), 13560-13565

- [4] "Crystallization and Preliminary X-Ray Studies of a Thermostable DNA Photolyase from *Thermus thermophilus* HB8"
H. Komori, H. Tsujiuchi, R. Masui, S. Kuramitsu, S. Yokoyama, T. Shibata, Y. Inoue, K. Miki
Protein and Peptide Letters, **8**, (2001), 495-498

- [5] "Purification and Crystallization of Japanese Pear S-RNase Associated with Gametophytic Self-Incompatibility"
T. Matsura, M. Unno, H. Sakai, T. Tsukihara, S. Norioka
Acta Crystallographica Section D, **57**, (2001), 172-173

- [6] "Crystal Structure at 1.5-Å Resolution of *Pyrus pyrifolia* Pistil Ribonuclease Responsible for Gametophytic Self-incompatibility"
T. Matsura, H. Sakai, M. Unno, K. Ida, M. Sato, F. Sakiyama, S. Norioka
The Journal of Biological Chemistry, **276**, (2001), 45261-45269

- [7] "Crystallization and Preliminary X-Ray Diffraction Analysis of NADP-Dependent Glyceraldehyde-3-Phosphate Dehydrogenase of *Synechococcus* PCC 7942"
Y. Nakamura, T. Tada, K. Wada, T. Kinoshita, M. Tamoi, S. Shigeoka, K. Nishimura
Acta Crystallographica Section D, **57**, (2001), 879-881

- [8] "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

- [9] "Crystal Structure of meso-2,3-Butanediol Dehydrogenase in a Complex with NAD⁺ and Inhibitor Mercaptoethanol at 1.7 Å Resolution for Understanding of Chiral Substrate Recognition Mechanisms"
M. Otagiri, G. Kurisu, S. Ui, Y. Takusagawa, M. Ohkuma, T. Kudo, M. Kusunoki
The Journal of Biochemistry, **129**, (2001), 205-208