

## 発表論文リスト（ユーザー）

### Journals

#### *BL01B1*

H. Sakane

"XAFS Analysis Applied to Solutions"

Anal. Sci. 17 Suppl. (2001) i131.

W.-J. Shen, Y. Ichihashi, H. Ando, M. Okumura, M. Haruta, and Y. Matsumura

"Influence of palladium precursors on methanol synthesis from CO hydrogenation over Pd/CeO<sub>2</sub> catalysts prepared by deposition-precipitation method"  
Appl. Catal. A217 (2001) 165.

W.-J. Shen, Y. Ichihashi, H. Ando, Y. Matsumura, M. Okumura, and M. Haruta

"Effect of reduction temperature on structural properties and CO/CO<sub>2</sub> hydrogenation characteristics of a Pd-CeO<sub>2</sub> catalyst"

Appl. Catal. A217 (2001) 231.

H. Tanida and I. Watanabe

"Dependence of EXAFS parameters of iodide anions in various solvents upon a solvent parameter"

Bull. Chem. Soc. Jpn. 73 (2000) 2747.

Y. Matsumura, W.-J. Shen, Y. Ichihashi, and H. Ando

"Structural change of palladium particles supported on cerium oxide in catalytic methanol synthesis"

Catal. Letters 68 (2000) 181.

W.-J. Shen, A. Kobayashi, Y. Ichihashi, Y. Matsumura, and M. Haruta

"Growth of Pd particles in methanol synthesis over Pd/CeO<sub>2</sub>"

Catal. Lett. 73 (2000) 161.

M. P. Kapoor, Y. Ichihashi, W.-J. Shen, and Y. Matsumura

"Catalytic activity of palladium supported on mesoporous zirconium oxide in low-temperature methanol decomposition"

Catal. Lett. 76 (2001) 139.

K. Kaneda, K. Yamaguchi, K. Mori, T. Mizugaki, and K. Ebitani

"Catalyst Design of Hydrotalcite Compounds for Efficient Oxidations"

Catalysis Surveys from Japan 4 (2000) 31.

K. Okumura and M. Niwa

"Metal-Support Interaction which Controls the Oxidation State, Structure and Catalysis of Pd"

Catalysis Surveys from Japan 5 (2002) 121.

#### *BL01B1&BL16B2*

Y. Nagai, T. Yamamoto, T. Tanaka, S. Yoshida, T. Nonaka, T. Okamoto, A. Suda, and M. Sugiura

"X-ray absorption fine structure analysis of local structure of CeO<sub>2</sub>-ZrO<sub>2</sub> mixed oxides with the same composition ratio (Ce/Zr=1)"

Catal. Today 74 (2002) 225.

K. Mori, K. Yamaguchi, T. Mizugaki, K. Ebitani, and K. Kaneda

"Catalysis of hydroxyapatite-bound Ru complex: efficient heterogeneous oxidation of primary amines to nitriles in the presence of molecular oxygen"

Chem. Commun. (2000) 461.

K. Ebitani, K. Nagashima, T. Mizugaki, and K. Kaneda

"Preparation of a zeolite X-encapsulated copper (II) chloride complex and its catalysis for liquid-phase oxygenation of enamines in the presence of molecular oxygen"

Chem. Commun. (2000) 869.

T. Inoue, Y. Kubozono, S. Kashino, Y. Takabayashi, K. Fujitaka, M. Hida, M. Inoue, T. Kanbara, S. Emura, and T. Uruga

"Electronic structure of Eu@C<sub>60</sub> studied by XANES and UV-VIS absorption spectra"

Chem. Phys. Lett. 316 (2000) 381.

Y. Kubozono, Y. Takabayashi, S. Kashino, M. Kondo, T. Wakahara, T. Akasaka, K. Kobayashi, S. Nagase, S. Emura, and K. Yamamoto

"Structure of La<sub>2</sub>@C<sub>80</sub> studied by La K-edge XAFS"

Chem. Phys. Lett. 335 (2001) 163.

- Y. Takahashi, A. Usui, K. Okumura, T. Uruga, M. Nomura, M. Murakami, and H. Shimizu  
 "Application of XANES for the Determination of Oxidation States of Co and Pb in Natural Ferromanganese Nodules"  
*Chem. Lett.* (2002) 366.
- K. Okumura, J. Amano, and M. Niwa  
 "Studies on the Formation and Structure of Highly Dispersed PdO Interacted with Bronsted Acid Sites of Zeolite by EXAFS"  
*Chem. Lett.* (1999) 997.
- K. R. Priolkar, P. Bera, P. R. Sarode, M. S. Hegde, S. Emura, R. Kumashiro, and N. P. Lalla  
 "Formation of Ce<sub>1-x</sub>Pd<sub>x</sub>O<sub>2-δ</sub> Solid Solution in Combustion-Synthesized Pd/CeO<sub>2</sub> Catalyst: XRD, XPS, and EXAFS Investigation"  
*Chem. Mater.* 14 (2002) 2120.
- T. Ishizuka, T. Yamamoto, T. Murayama, T. Tanaka, and H. Hattori  
 "Effect of Calcium Sulfate Addition on the Activity of the Absorbent for Dry Flue Gas Desulfurization"  
*Energy & Fuels* 15 (2001) 438.
- C. Collins, N. Zoita, A. Rusu, M. Iosif, F. Davanloo, S. Emura, T. Uruga, R. Dussart, J. Pouvesle, C. Ur, V. Kirischuk, N. Strilchuk, D. Camase, I. Popescu, and F. Agee  
 "Tunable synchrotron radiation used to induce gamma-emission from the 31 year isomer of Hf-178"  
*Europhy. Lett.* 57 (2002) 677.
- K. Ebitani, T. Kawabata, K. Nagashima, T. Mizugaki, and K. Kaneda  
 "Simple and clean synthesis of 9, 9-bis [4- (2-hydroxyethoxy) phenyl] fluorene from the aromatic alkylation of phenoxyethanol with fluoren-9-one catalysed by titanium cation-exchanged montmorillonite"  
*Green Chem.* 2 (2000) 157.
- A. Yoshiasa, M. Okube, O. Ohotaka, O. Kamishima, and Y. Katayama  
 "Anharmonic Effective Pair Potentials of γ-and α-CuBr at High Pressure"  
*Jpn. J. Appl. Phys.* 39 (2000) 6747.
- K. Yamaguchi, K. Mori, T. Mizugaki, K. Ebitani, and K. Kaneda  
 "Creation of a Monomeric Ru Species on the Surface of Hydroxyapatite as an Efficient Heterogeneous Catalyst for Aerobic Alcohol Oxidation"  
*J. Am. Chem. Soc.* 120 (2000) 7144.
- Y. Matsumura, W.-J. Shen, Y. Ichihashi, and M. Okumura  
 "Low-temperature methanol synthesis catalyzed over ultrafine palladium particles supported on cerium oxide"  
*J. Catal.* 197 (2001) 267.
- Y. Ichihashi and Y. Matsumura  
 "Partial Photooxidation of Ethylene with Water as Oxidant over Copper Oxide Supported on Silica"  
*J. Catal.* 202 (2001) 427.
- Y. Kohno, T. Yamamoto, T. Tanaka, and T. Funabiki  
 "Photo-enhanced Reduction of CO<sub>2</sub> by H<sub>2</sub> over Rh/TiO<sub>2</sub>. Characterization of Supported Rh Species by Means of Infrared and X-ray Absorption Spectroscopy"  
*J. Mol. Catal. A* 175 (2001) 173.
- K. Okumura, J. Amano, N. Yasunobu, and M. Niwa  
 "X-ray Absorption Fine Structure Study of the Formation of the Highly Dispersed PdO over ZSM-5 and the Structural Change of Pd Induced by Adsorption of NO"  
*J. Phys. Chem. B* 104 (2000) 1050.
- K. Okumura and M. Niwa  
 "Regulation of the Dispersion of PdO through the Interaction with Acid Sites of Zeolites Studied by Extended X-ray Absorption Fine Structure"  
*J. Phys. Chem. B* 104 (2000) 9670.
- T. Yamamoto, T. Tanaka, T. Matsuyama, T. Funabiki, and S. Yoshida  
 "Alumina-Supported Rare-Earth Oxides Characterized by Acid-Catalyzed Reactions and Spectroscopic Methods"  
*J. Phys. Chem. B* 105 (2001) 1908.
- K. Ikeue, H. Yamashita, T. Takewaki, and M. Anpo  
 "Photocatalytic Reduction of CO<sub>2</sub> with H<sub>2</sub>O on Ti-Zeolite Photocatalysts: Effect of the Hydrophobic and Hydrophilic Properties"  
*J. Phys. Chem. B* 105 (2001) 8350.

- J. Zhang, M. Matsuoka, H. Yamashita, and M. Anpo  
 "Relationship Between the Local Structures of Titanium Oxide Photocatalysts and Their Reactivities in the Decomposition of NO"  
*J. Phys. Chem.* 105 (2001) 8395.
- Y. Nishihata, O. Kamishima, Y. Kubozono, H. Maeda, and S. Emura  
 "XAFS in the high-energy region"  
*J. Synchrotron Rad.* 5 (1998) 1007.
- T. Uruga, H. Tanida, Y. Yoneda, K. Takeshita, S. Emura, M. Takahashi, M. Harada, Y. Nishihata, Y. Kubozono, T. Tanaka, T. Yamamoto, H. Maeda, O. Kamishima, Y. Takabayashi, Y. Nakata, and H. Kimura  
 "The XAFS beamline BL01B1 at SPring-8"  
*J. Synchrotron Rad.* 6 (1999) 143.
- Y. Nishihata, S. Emura, H. Maeda, Y. Kubozono, M. Harada, T. Uruga, H. Tanida, Y. Yoneda, J. Mizuki, and T. Emoto  
 "XAFS spectra in the high-energy region measured at SPring-8"  
*J. Synchrotron Rad.* 6 (1999) 149.
- Y. Kubozono, K. Mimura, Y. Takabayashi, H. Maeda, S. Kashino, S. Emura, Y. Nishihata, T. Uruga, T. Tanaka, and M. Takahashi  
 "XAFS study on RbC<sub>60</sub>"  
*J. Synchrotron Rad.* 6 (1999) 564.
- T. Inoue, Y. Kubozono, K. Hiraoka, K. Mimura, H. Maeda, S. Kashino, S. Emura, T. Uruga, and Y. Nakata  
 "XAFS study on Eu@C<sub>60</sub>"  
*J. Synchrotron Rad.* 6 (1999) 779.
- Y. Katayama  
 "XAFS study on liquid selenium under high pressure"  
*J. Synchrotron Rad.* 8 (2001) 182.
- Y. Nishihata, J. Mizuki, S. Emura, and T. Uruga  
 "EXAFS spectra above Pb and Pt *K* edges observed at low temperature"  
*J. Synchrotron Rad.* 8 (2001) 294.
- E. Yanase, K. Arai, I. Watanabe, M. Takahashi, and Y. Dake  
 "XAFS analysis of corroded metal surfaces with molten salts by conversion-electron-yield method"  
*J. Synchrotron Rad.* 8 (2001) 490.
- Y. Kubozono, T. Inoue, Y. Takabayashi, S. Fujiki, T. Akasaka, T. Wakahara, M. Inakuma, T. Sugai, H. Shinohara, and S. Emura  
 "XAFS study on metal endohedral fullerenes"  
*J. Synchrotron Rad.* 8 (2001) 551.
- W. S. Ju, M. Matsuoka, H. Yamashita, and M. Anpo  
 "Local structure of Pb (II) ion catalysts anchored within zeolite cavities and their photocatalytic reactivities for the elimination of N<sub>2</sub>O"  
*J. Synchrotron Rad.* 8 (2001) 608.
- M. Matsuoka, W. S. Ju, H. Yamashita, and M. Anpo  
 "Investigations on the local structure of Ag<sup>+</sup>/ZSM-5 catalysts and their photocatalytic reactivities for the decomposition of N<sub>2</sub>O at 298 K"  
*J. Synchrotron Rad.* 8 (2001) 613.
- BL01B1&BL16B2**
- Y. Nagai, T. Yamamoto, T. Tanaka, S. Yoshida, T. Nonaka, T. Okamoto, A. Suda, and M. Sugiura  
 "Local structure analyses of Ce<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> mixed oxides by XAFS"  
*J. Synchrotron Rad.* 8 (2001) 616.
- T. Yamamoto, T. Tanaka, T. Matsuyama, T. Funabiki, and S. Yoshida  
 "Structural analysis of La/Al<sub>2</sub>O<sub>3</sub> catalysts by La *K*-edge XAFS"  
*J. Synchrotron Rad.* 8 (2001) 634.
- S. Fujiki, Y. Kubozono, Y. Takabayashi, S. Kashino, and S. Emura  
 "XAFS study on pressure-induced superconductor Cs<sub>3</sub>C<sub>60</sub> under high pressure"  
*J. Synchrotron Rad.* 8 (2001) 725.
- T. Nakagawa, T. Osuki, T. Yamamoto, Y. Kitauji, M. Kano, M. Katsura, and S. Emura  
 "Study on local structure around Ce and Gd atoms in CeO<sub>2</sub>-Gd<sub>2</sub>O<sub>3</sub> binary system"  
*J. Synchrotron Rad.* 8 (2001) 740.

- K. Tani, N. Yiwata, M. Harigaya, S. Emura, and Y. Nakata  
"EXAFS study of Sb-Te alloy films"  
J. Synchrotron Rad. 8 (2001) 749.
- N. Yiwata, M. Harigaya, K. Tani, K. Hayakawa, and T. Fujikawa  
"Sb K-edge absorption fine structure of  $Sb_2Te_3$ "  
J. Synchrotron Rad. 8 (2001) 752.
- T. Shobu, Y. Noda, E. Ninomiya, H. Sawa, S. Nagamatsu, T. Fujikawa, Y. Ueda, M. Isobe, N. Ikeda, and T. Uruga  
"XANES study of charge ordering on the spin-peierls phase transition of  $NaV_2O_5$ "  
J. Synchrotron Rad. 8 (2001) 746.
- K. Okumura, K. Nishigaki, and M. Niwa  
"Prominent Catalytic Activity of Ga-containing MCM-41 in the Friedel-Crafts Alkylation"  
Microporous and Mesoporous Materials 44-45 (2001) 509.
- S. Higashimoto, M. Matsuoka, H. Yamashita, and M. Anpo  
"Characterization of the VS-1 Catalyst Using Various Spectroscopic Techniques and Its Unique Photocatalytic Reactivity for the Decomposition of NO in the Absence and Presence of  $C_3H_8$ "  
Microporous and Mesoporous Materials 48 (2001) 329.
- K. Sato  
"Feasibility study of silicon PN photodiodes as X-ray intensity monitors for high flux X-ray beam with synchrotron radiation"  
Nucl. Instr. Meth. A436 (1999) 285.
- T. Yamamoto, T. Tanaka, R. Kuma, S. Suzuki, F. Amano, Y. Shimooka, Y. Kohno, T. Funabiki, and S. Yoshida  
"NO reduction with CO in the presence of  $O_2$  over  $Al_2O_3$ -supported and Cu-based catalyst"  
Phys. Chem. Chem. Phys. 4 (2002) 2449.
- K. Ishii, A. Fujiwara, H. Suematsu, and Y. Kubozono  
"Ferromagnetism and giant magnetoresistance in the rare-earth fullerides  $Eu_{6-x}Sr_xC_{60}$ "  
Phys. Rev. B65 (2002) 134431.
- Y. Ito, T. Tochio, K. Mutaguchi, H. OhHashi, N. Shigeoka, Y. Nakata, A. M. Vlaicu, T. Uruga, S. Emura, and J. P. Gomilsek  
"Double-electron excitation above Xe K-edge"  
Radiat. Phys. Chem. 61 (2001) 405.
- BL01B1&BL14B1**
- M. Okube, A. Yoshiasa, O. Ohtaka, H. Fukui, Y. Katayama, and W. Utsumi  
"Anharmonicity of gold under high-pressure and high-temperature"  
Solid State Commun. 121 (2002) 235.
- S. Higashimoto, M. Matsuoka, H. Yamashita, and M. Anpo  
"Local Structures of Active Sites on Mo-MCM-41 Mesoporous Molecular Sieves and their Photocatalytic Reactivity for the Decomposition of NOX"  
Stud. Surf. Sci. Catal. 140 (2001) 315.
- K. Okumura and M. Niwa  
"Control of the dispersion of Pd through the interaction with acid sites of zeolite studied by EXAFS"  
Topics in Catal. 18 (2002) 85.
- T. Yamamoto, T. Tanaka, S. Suzuki, R. Kuma, K. Teramura, Y. Kou, T. Funabiki, and S. Yoshida  
"NO Reduction with CO in the Presence of  $O_2$  over  $Cu/Al_2O_3$  (3) - Structural Analysis of Active Species by Means of XAFS and UV/VIS/NIR Spectroscopies -"  
Topics in Catal. 18 (2002) 113.
- BL02B1**
- T. Hattori, T. Yamanaka, and T. Nagai  
"Single-crystal X-ray diffraction study of  $FeGeO_3$  high- $P$  clinopyroxen ( $C2/c$ ) up to 8.2Gpa"  
Ame. Mineral. 85 (2000) 1485.
- T. Yamanaka and Y. Komatsu  
"Structure change of  $Ca_{1-x}Sr_xTiO_3$  perovskite with composition and pressure"  
Ame. Mineral. 87 (2002) 1183.

- M. Mitsumi, K. Kitamura, A. Morinaga, Y. Ozawa, M. Kobayashi, K. Toriumi, Y. Iso, H. Kitagawa, and T. Mitani "Novel Valence-Ordering Structures and Magnetic Behavior of New Metallic MMX Chain Compounds" *Angew. Chem. Inter. Ed.* 41 (2002) 2767.
- M. Mitsumi, S. Umebayashi, Y. Ozawa, K. Toriumi, H. Kitagawa, and T. Mitani "Structural Phase Transition and Valence Fluctuation Observed in a New MMX Chain Compound, Pt<sub>2</sub>(n-PrCS<sub>2</sub>)<sub>4</sub>I" *Chem. Lett.* (2002) 258.
- T. Ozeki  
"Structure Analysis of a Sodium Paradodecatungstate"  
*Chem. Lett.* (2001) 266.
- M. Mitsumi, T. Murase, H. Kishida, T. Yoshinari, Y. Ozawa, K. Toriumi, T. Sonoyama, H. Kitagawa, and T. Mitani "Metallic Behavior and Periodical Valence-Ordering in a New MMX Chain Compound, Pt<sub>2</sub>(EtCS<sub>2</sub>)<sub>4</sub>I" *J. Am. Chem. Soc.* 123 (2001) 11179.
- T. Shobu, Y. Noda, K. Iwasa, A. Hannan, M. Kohgi, N. Ishimatsu, and O. Shimomura "Imaging of Electron Density Distribution of CeP Under High Pressure by Single Crystal SR X-Ray Experiments" *J. Phys. Soc. Jpn.* 70 (2001) 1162.
- T. Inami, K. Ohwada, H. Kimura, M. Watanabe, Y. Noda, H. Nakamura, T. Yamasaki, M. Shiga, N. Ikeda, and Y. Murakami "Symmetry breaking in the metal-insulator transition of BaVS<sub>3</sub>" *Phys. Rev. B* 66 (2002) 73108.
- K. Ohwada, Y. Fujii, N. Takesue, M. Isobe, Y. Ueda, Y. Wakabayashi, Y. Murakami, H. Nakao, K. Ito, Y. Amemiya, H. Fujihisa, K. Aoki, T. Shobu, Y. Noda, and N. Ikeda "Devil's Staircase-Type Phase Transition of NaV<sub>2</sub>O<sub>5</sub> under High Pressure" *Phys. Rev. Lett.* 87 (2001) 086402-1.
- T. Yamanaka and T. Hattori  
"Molecular orbital study on the onset of the pressure-induced transformations of the metastable compressed germanates"  
*Phys. Chem. Mineral.* 29 (2002) 261.
- B. Bagautdinov, K. Hagiya, S. Noguchi, M. Ohmasa, N. Ikeda, K. Kusaka, and K. Iishi "Low temperature studies on the two-dimensional modulations in akermanite-type crystals: Ca<sub>2</sub>MgSi<sub>2</sub>O<sub>7</sub> and Ca<sub>2</sub>ZnSi<sub>2</sub>O<sub>7</sub>" *Phys. Chem. Mineral.* 29 (2002) 346.
- T. Yamanaka, T. Nagai, and K. Kittaka "Bonding character of SiO<sub>2</sub> stishovite under high-pressure up to 30GPa" *Phys. Chem. Mineral.* 29 (2002) 633.
- T. Yamanaka and T. Fukuda "New diamond-anvil cell for single-crystal analysis" *Rev. Sci. Instrum.* 42 (2001) 1458.
- T. Yamanaka "X-ray diffraction study of bond character of rutile SiO<sub>2</sub>, GeO<sub>2</sub> and SnO<sub>2</sub>" *Z. Kristallographie* 215 (2000) 424.
- C-R. Wang, T. Kai, T. Tomiyama, T. Yoshida, Y. Kobayashi, E. Nishibori, M. Takata, M. Sakata, and H. Shinohara "A Scandium Carbide Endohedral Metallofullerene: (Sc<sub>2</sub>C<sub>2</sub>)@C<sub>84</sub>" *Angew. Chem. Int. Ed.* 40 (2001) 397.
- E. Nishibori, M. Takata, M. Sakata, A. Taninaka, and H. Shinohara "Pentagonal-Dodecahedral La<sub>2</sub> Charge Density in [80-I<sub>h</sub>] Fullerene: La<sub>2</sub>@C<sub>80</sub>" *Angew. Chem. Int. Ed.* 40 (2001) 2998.
- T. Kawaguchi, K. Tanigaki, and M. Yasukawa "Ferromagnetism in germanium clathrate: Ba<sub>8</sub>Mn<sub>2</sub>Ge<sub>44</sub>" *Appl. Phys. Lett.* 77 (2000) 3438.
- Y. Kuroiwa, S. Aoyagi, A. Sawada, E. Nishibori, M. Takata, M. Sakata, H. Tanaka, and J. Harada "Accurate Charge-Densities of Crystalline Materials Obtained by Third Generation SR and MEM/Rietveld Analysis" *Ferroelectrics* 268 (2002) 23.
- H. Fujishita and Y. Ishikawa "Temperature Dependence of Order Parameters in the Antiferroelectric Phases of Perovskite PbHfO<sub>3</sub>" *Ferroelectrics* 269 (2002) 135.

- S. Aoyagi, Y. Kuroiwa, A. Sawada, E. Nishibori, M. Takata, M. Sakata, H. Tanaka, and J. Harada  
 "Precise Charge Density Analysis of PbTiO<sub>3</sub>"  
*Ferroelectrics* 269 (2002) 303.
- N. Yamada and T. Matsunaga  
 "Structure of laser-crystallized Ge<sub>2</sub>Sb<sub>2+x</sub>Te<sub>5</sub> sputtered thin films for use in optical memory"  
*J. Appl. Phys.* 88 (2000) 7020.
- Y. Yamada, J. Ye, S. Horii, A. Matsushita, and S. Kubo  
 "Crystal structure in PrBa<sub>2</sub>Cu<sub>4</sub>O<sub>8</sub> single crystals"  
*J. Phys..Chem. Solid.* 62 (2001) 191.
- A. Machida, Y. Moritomo, E. Nishibori, M. Takata, M. Sakata, K. Ohoyama, S. Mori, N. Yamamoto, and A. Nakamura  
 "Microdomain Structure of Cr-Doped Manganites: Nd<sub>1/2</sub>Ca<sub>1/2</sub>(Mn, Cr)O<sub>3</sub>"  
*J. Phys. Soc. Jpn.* 69 (2000) 3536.
- K. Matsuno, T. Katsufuji, S. Mori, Y. Moritomo, A. Machida, E. Nishibori, M. Takata, M. Sakata, N. Yamamoto, and H. Takagi  
 "Charge Ordering in the Geometrically Frustrated Spinel AlV<sub>2</sub>O<sub>4</sub>"  
*J. Phys. Soc. Jpn.* 70 (2001) 1456.
- X. G. Zheng, C. N. Xu, E. Tanaka, Y. Tomokiyo, H. Yamada, Y. Soejima, Y. Yamamura, and T. Tsuji  
 "Evidence of charge stripes, charge-spin-orbital coupling and phase transition in a simple copper oxide CuO"  
*J. Phys. Soc. Jpn.* 70 (2001) 1054.
- S. Xu, Y. Moritomo, K. Kato, and A. Nakamura  
 "Mn-Substitution Effects on MgB<sub>2</sub> Superconductor"  
*J. Phys. Soc. Jpn.* 70 (2001) 1889.
- E. Nishibori, M. Takata, M. Sakata, H. Tanaka, T. Muranaka, and J. Akimitsu  
 "Bonding Nature in MgB<sub>2</sub>"  
*J. Phys. Soc. Jpn.* 70 (2001) 2252.
- Y. Moritomo, H. Kusuya, A. Machida, E. Nishibori, M. Takata, M. Sakata, and A. Nakamura  
 "Fe-site substitution effect of Sr<sub>2</sub>FeMoO<sub>6</sub>"  
*J. Phys. Soc. Jpn.* 70 (2001) 3182.
- H. Kusuya, A. Machida, Y. Moritomo, K. Kato, E. Nishibori, M. Takata, M. Sakata, and A. Nakamura  
 "Structural change at metal-insulator transition of Tb<sub>2</sub>ba<sub>2</sub>Co<sub>4</sub>O<sub>11</sub>"  
*J. Phys. Soc. Jpn.* 70 (2001) 3577.
- A. Machida, Y. Moritomo, S. Mori, N. Yamamoto, K. Ohoyama, E. Nishibori, M. Takata, M. Sakata, T. Ootomo, and A. Nakamura  
 "Microscopic Charge Separation in Tb<sub>1-x</sub>Ca<sub>x</sub>MnO<sub>3</sub> (x~1)"  
*J. Phys. Soc. Jpn.* 71 (2002) 27.
- BL02B2&BL01B2**  
 Y. Moritomo, K. Kato, A. Nakamoto, N. Kojima, E. Nishibori, M. Takata, and M. Sakata  
 "Low-Temperature Structure of [Fe (ptz)<sub>6</sub>] (BF<sub>4</sub>)<sub>2</sub>-Determination by Synchrotron-Radiation X-ray Powder Study-"  
*J. Phys. Soc. Jpn.* 71 (2002) 1015.
- S. Aoyagi, Y. Kuroiwa, A. Sawada, I. Yamashita, and T. Atake  
 "Composite Structure of BaTiO<sub>3</sub> Nanoparticle Investigated by SR X-Ray Diffraction"  
*J. Phys. Soc. Jpn.* 71 (2002) 1218.
- Y. Moritomo, N. Shimamoto, S. Xu, A. Machida, E. Nishibori, M. Takata, M. Sakata, and A. Nakamura  
 "Effects of B-Site Disorder in Sr<sub>2</sub>FeMoO<sub>6</sub> with Double Perovskite Structure"  
*Jpn. J. Appl. Phys.* 40 (2001) L672.
- T. Matsunaga and N. Yamada  
 "A Study of Highly Symmetrical Crystal Structures, Commonly Seen in High-Speed Phase-Change Materials, Using Syncrotron Radiation"  
*Jpn. J. Appl. Phys.* 41 (2002) 1674.
- S. Agata, Y. Moritomo, A. Machida, K. Kato, and A. Nakamura  
 "Oxidization Control of Transport Properties of Sr<sub>2</sub>FeMoO<sub>6+d</sub> Film"  
*Jpn. J. App. Phys.* 41 (2002) L688.

- M. Takata, E. Nishibori, M. Shinmura, H. Tanaka, K. Tanigaki, M. Kosaka, and M. Sakata  
 "Charge density study of C<sub>60</sub> superconductors by MEM/Rietveld analysis"  
*Mater. Sci. Eng. A* 312 (2001) 66.
- T. Takeuchi, T. Onogi, E. Banno, and U. Mizutani  
 "Direct Evidence of the Hume-Rothery Stabilization Mechanism in Al-Mn-Fe-Si Mackay-type 1/1-Cubic Approximants"  
*Materials Transactions* 42 (2001) 933.
- T. Ohba, F. Yanagita, M. Mitsuka, T. Hara, and K. Kato  
 "Rietveld Analysis on Hydrogenated TiNi Shape Memory Alloys and Multiple-Stage Transformation"  
*Materials Transactions* 43 (2002) 798.
- C-R. Wang, T. Kai, T. Tomiyama, T. Yoshida, Y. Kobayashi, E. Nishibori, M. Takata, M. Sakata, and H. Shinohara  
 "C<sub>60</sub> fullerene encaging a scandium dimer"  
*Nature* 408 (2000) 426.
- E. Nishibori, M. Takata, K. Kato, M. Sakata, Y. Kubota, S. Aoyagi, Y. Kuroiwa, M. Yamakata, and N. Ikeda  
 "The large Debye-Scherrer camera installed at SPring-8 BL02B2 for charge density studies"  
*Nucl. Instr. Meth. A* 467-468 (2001) 1045.
- Y. Moritomo, Sh. Xu, T. Akimoto, A. Machida, N. Hamada, K. Ohoyama, E. Nishibori, M. Takata, and M. Sakata  
 "Electron doping effects in conducting Sr<sub>2</sub>FeMoO<sub>6</sub>"  
*Phys. Rev. B* 62 (2000) 14224.
- Y. Moritomo, Sh. Xu, A. Machida, T. Katsufuji, E. Nishibori, M. Takata, M. Sakata, and S-W. Cheong  
 "Chemical pressure control of exchange interaction in Mo pyrochlore"  
*Phys. Rev. B* 63 (2000) 144425.
- A. Kitano, K. Moriguchi, M. Yonemura, S. Munetoh, A. Shintani, S. Yamanaka, H. Fukuoka, M. Sakata, M. Takata, and E. Nishibori  
 "Structural properties and thermodynamic stability of Ba-doped silicon type-I clathrates synthesized under high pressure"  
*Phys. Rev. B* 64 (2001) 045206-1.
- Y. Maniwa, R. Fujiwara, H. Kira, H. Tou, E. Nishibori, M. Takata, M. Sakata, A. Fujiwara, X. Zhao, S. Iijima, and Y. Ando  
 "Multi-Walled Carbon Nanotubes (MWNTs) Grown in Hydrogen Atmosphere: An X-Ray Diffraction Study"  
*Phys. Rev. B* 64 (2001) 073105-1.
- Y. Moritomo, A. Machida, E. Nishibori, M. Takata, and M. Sakata  
 "Enhanced specific heat jump in electron-doped CaMnO<sub>3</sub>"  
*Phys. Rev. B* 64 (2001) 214409-1.
- T. Matsunaga, Y. Umetani, and N. Yamada  
 "Structural Study of an Ag<sub>3.4</sub>In<sub>3.7</sub>Sb<sub>76.4</sub>Te<sub>16.5</sub> Quadruple Compound utilized for Phase-change Optical Disks"  
*Phys. Rev. B* 64 (2001) 184116-1.
- BL02B2&BL10XU  
 F. Iga, Y. Ueda, T. Takabatake, T. Suzuki, W. Higemoto, and K. Nishiyama  
 "Evidence for Ferromagnetic Transition in Yb<sub>1-x</sub>La<sub>x</sub>B<sub>6</sub> (0 ≤ x ≤ 0.006)"  
*Phys. Rev. B* 65 (2002) 220408.
- Y. Moritomo, Sh. Xu, A. Machida, K. Ohoyama, K. Kato, and A. Nakamura  
 "MnO<sub>6</sub> distortion and spin ordering in Nd<sub>1-x</sub>Sr<sub>x</sub>MnO<sub>3</sub>(x=0.55 and 0.65)"  
*Phys. Rev. B* 66 (2002) 24420.
- T. Kawaguchi, K. Tanigaki, and M. Yasukawa  
 "Silicon Clathrate with an f-Electron System"  
*Phys. Rev. Lett.* 85 (2000) 3189.
- X.G. Cheng, C.N. Xu, Y. Tomokiyo, H. Yamada, and Y. Soejima  
 "Observation of charge stripes in cupric oxide"  
*Phys. Rev. Lett.* 85 (2000) 5170.
- Y. Kuroiwa, S. Aoyagi, A. Sawada, J. Harada, E. Nishibori, M. Takata, and M. Sakata  
 "Evidence for Pb-O Covalency in Tetragonal PbTiO<sub>3</sub>"  
*Phys. Rev. Lett.* 87 (2001) 217601.
- A. Matsushita, K. Akagi, G. Piao, and Y. Yamada  
 "C<sub>n</sub>F<sub>2n+2</sub> intercalation in polyacetylene"  
*Synth. Met.* 119 (2001) 377.

## *BL04B1*

S. Urakawa, H. Terasaki, K. Funakoshi, T. Kato, and A. Suzuki

"Radiographic study on the viscosity of the Fe-FeS melts at the pressure of 5 to 7 Gpa"

Ame. Mineral. 86 (2001) 578.

K. Hirose, Y. Fei, S. Ono, T. Yagi, and K. Funakoshi

"In situ measurements of the phase transition boundary in  $Mg_3Al_2Si_3O_{12}$ : implications for the nature of the seismic discontinuities in the Earth's mantle"

Earth Planet. Sci. Lett. 184 (2001) 567.

S. Ono, E. Ito, and T. Katsura

"Mineralogy of subducted basaltic crust (MORB) from 25-37 GPa, and chemical heterogeneity of the lower mantle"

Earth Planet. Sci. Lett. 190 (2001) 57.

H. Terasaki, T. Kato, S. Urakawa, K. Funakoshi, A. Suzuki, T. Okada, M. Maeda, J. Sato, T. Kubo, and S. Kasai

"The effect of temperature, pressure, and sulfur content on viscosity of the Fe-FeS melt"

Earth Planet. Sci. Lett. 190 (2001) 93.

S. Ono, T. Katsura, E. Ito, M. Kanzaki, A. Yoneda, M. J. Walter, S. Urakawa, W. Utsumi, and K. Funakoshi

"In situ observation of ilmenite-perovskite phase transition in  $MgSiO_3$  using synchrotron radiation"

Geophys. Res. Lett. 28 (2001) 835.

K. Hirose, T. Komabayashi, M. Murakami, and K. Funakoshi

"In Situ Measurements of the Majorite-Akimotoite-Perovskite Phase Transition Boundaries in  $MgSiO_3$ "

Geophys. Res. Lett. 28 (2001) 4351.

O. Ohtaka, H. Fukui, K. Funakoshi, W. Utsumi, T. Irifune, and T. Kikegawa

"Phase relations and EOS of  $ZrO_2$  and  $HfO_2$  under high-temperature and high-pressure"

High Pressure Res. 22 (2002) 221.

S. Urakawa, M. Hasegawa, J. Yamakawa, K. Funakoshi, and W. Utsumi

"High-pressure phase relationships for FeS"

High Pressure Res. 22 (2002) 491.

O. Ohtaka, H. Fukui, T. Kunisada, T. Fujisawa, K. Funakoshi, W. Utsumi, T. Irifune, K. Kuroda, and T. Kikegawa  
"Phase Relations and Volume Changes of Hafnia under High Pressure and High Temperature"

J. Ame. Ceram. Soc. 84 (2001) 1369.

K. Tamura, M. Inui, I. Nakaso, Y. Oh'ishi, K. Funakoshi, and W. Utsumi

"Structural studies of expanded fluid mercury using synchrotron radiation"

J. Non-Cryst. Solids 250-252 (1999) 148.

## *BL04B1&BL04B2*

K. Tamura and M. Inui

"Structural changes and the metal-non-metal transition in supercritical fluids"

J. Phys.: Condens. Matter 13 (2001) R337.

S. Ono, E. Ito, T. Katsura, A. Yoneda, M-J. Walter, S. Urakawa, W. Utsumi, and K. Funakoshi

"Thermoelastic properties of the high-pressure phase of  $SnO_2$  determined by in situ X-ray observations up to 30 GPa and 1400 K"

Phys. Chem. Mineral. 27 (2000) 618.

A. Suzuki, E. Ohtani, K. Funakoshi, H. Terasaki, and T. Kubo

"Viscosity of albite melt at high pressure and high temperarute"

Phys. Chem. Mineral. 29 (2002) 159.

T. Kubo, E. Ohtani, T. Kato, S. Urakawa, A. Suzuki, Y. Kanbe, K. Funakoshi, W. Utsumi, T. Kikegawa, and K. Fijino

"Mechanisms and kinetics of the post-spinel transformation in  $Mg_2SiO_4$ "

Phys. Earth Planet. Inter. 129 (2002) 153.

O. Ohtaka, H. Fukui, T. Kunisada, T. Fujisawa, K. Funakoshi, W. Utsumi, T. Irifune, K. Kuroda, and T. Kikegawa

"Phase relations and equations of state of  $ZrO_2$  under high temperature and high pressure"

Phys. Rev. B63 (2001) 174108-1.

S. Hosokawa and W-C. Pilgrim

"High-pressure vessel for elastic and inelastic X-ray diffraction experiments for liquids over a wide temperature range"

Rev. Sci. Instrum. 72 (2001) 1721.

T. Irifune, N. Nishiyama, K. Kuroda, T. Inoue, M. Isshiki, W. Utsumi, K. Funakoshi, S. Urakawa, T. Uchida, T. Katsura, and O. Ohtaka  
 "The postspinel phase boundary in Mg<sub>2</sub>SiO<sub>4</sub> determined in situ X-ray diffraction"  
*Science* 279 (1998) 1698.

#### *BL04B2*

K. Kusaka, Y. Ozawa, and A. Yagasaki  
 "A New Polyantimonate with an Sb<sub>4</sub>O<sub>16</sub> Core"  
*Inorg. Chem.* 40 (2001) 2634.

M. Isshiki, Y. Ohishi, S. Goto, K. Takeshita, and T. Ishikawa  
 "High-energy X-ray diffraction beamline: BL04B2 at SPring-8"  
*Nucl. Instr. Meth. A* 467-468 (2001) 663.

S. Kohara, K. Suzuya, Y. Kashihara, N. Matsumoto, N. Umesaki, and I. Sakai  
 "A horizontal two-axis diffractometer for high-energy X-ray diffraction using synchrotron radiation on bending magnet beamline BL04B2 at SPring-8"  
*Nucl. Instr. Meth. A* 467-468 (2001) 1030.

#### *BL04B2&BL09XU*

T. Kawakami, S. Nasu, T. Sasaki, K. Kuzushita, S. Morimoto, S. Endo, T. Yamada, S. Kawasaki, and M. Takano  
 "Pressure-induced Transition from a Charge-disproportionated Antiferromagnetic State to a Charge-uniform Ferromagnetic State in Sr<sub>2/3</sub>La<sub>1/3</sub>FeO<sub>3</sub>"  
*Phys. Rev. Lett.* 88 (2002) 037602-1.

#### *BL08W*

T. Ramesh, B. L. Ahuja, B. K. Sharma, P. Chaddah, S. B. Roy, Y. Sakurai, and N. Sakai  
 "Temperature dependent magnetic Compton Profiles of CeFe<sub>2</sub>"  
*Indian Journal of Engineering & Materials Sciences* 7 (2000) 451.

Y. Sakurai, N. Hiraoka, M. Itou, M. Mizumaki, T. Ohata, A. Deb, H. Toyokawa, M. Suzuki, and N. Sakai  
 "Background Noise in a Cauchois-type High-resolution Compton Scattering Spectrometer at SPring-8"  
*J. Phys. Chem. Solids* 62 (2001) 2099.

A. Deb and Y. Sakurai  
 "Electronic structure of the Cu<sub>2</sub>MnAl Heusler alloy"  
*J. Phys.: Condens. Matter* 12 (2000) 2997.

J. Tamura-Okada, Y. Watanabe, Y. Yokoyama, N. Hiraoka, M. Itou, Y. Sakurai, S. Nakano, and S. Nanao  
 "Electron momentum distribution of decagonal Al<sub>72</sub>Ni<sub>12</sub>Co<sub>16</sub> studied by Compton scattering"  
*J. Phys.: Condens. Matter* 14 (2002) L43.

H. Yamaoka, K. Ohtomo, and T. Ishikawa  
 "Focusing and reflection by a bent crystal for high-energy synchrotron radiation"  
*J. Synchrotron Rad.* 5 (1998) 687.

H. Yamaoka, T. Mochizuki, Y. Sakurai, and H. Kawata  
 "Bent-crystal monochromators for high-energy synchrotron radiation"  
*J. Synchrotron Rad.* 5 (1998) 699.

H. Yamaoka, N. Hiraoka, M. Ito, M. Mizumaki, Y. Sakurai, Y. Kakutani, A. Koizumi, N. Sakai, and Y. Higashi  
 "Performance of bent-crystal monochromators for high-energy synchrotron radiation"  
*J. Synchrotron Rad.* 7 (2000) 69.

N. Sakai, M. Seigo, Y. Kakutani, N. Hiraoka, and A. Koizumi  
 "Enhancement of the spin-dependent effect of π/2-angle Compton scattering using elliptically polarized synchrotron radiation"  
*J. Synchrotron Rad.* 7 (2000) 326.

N. Hiraoka, M. Itou, T. Ohata, M. Mizumaki, Y. Sakurai, and N. Sakai  
 "A new X-ray spectrometer for high-resolution Compton profile measurements at SPring-8"  
*J. Synchrotron Rad.* 8 (2001) 26.

I. Nakai, Y. Terada, M. Itou, and Y. Sakurai

"Use of highly energetic (116keV) synchrotron radiation for X-ray fluorescence analysis of trace rare-earth elements"

J. Synchrotron Rad. 8 (2001) 1078.

M. Itou, N. Hiraoka, T. Ohata, M. Mizumaki, A. Deb, Y. Sakurai, and N. Sakai

"Present Status of the Cauchois-type Compton Scattering Spectrometer at SPring-8"

Nucl. Instr. Meth. A467-468 (2001) 1109.

A. Deb, M. Itou, Y. Sakurai, N. Hiraoka, and N. Sakai

"Magnetic Compton scattering study of the Co<sub>2</sub>FeGa Heusler alloy: Experiment and theory"

Phys. Rev. B63 (2001) 064409-1.

A. Deb, N. Hiraoka, M. Itou, Y. Sakurai, M. Onodera, and N. Sakai

"Spin-dependent electron momentum density in the Ni<sub>2</sub>MnSn Heusler alloy"

Phys. Rev. B63 (2001) 205115-1.

B. L. Ahuja, T. Ramesh, B. K. Sharma, P. Chaddah, S. B. Roy, Y. Kakutani, A. Koizumi, N. Hiraoka, M. Toutani, N. Sakai, Y. Sakurai, and M. Itou

"Temperature dependent magnetic Compton scattering study of spin moments in Ce (Fe<sub>0.96</sub>Ru<sub>0.04</sub>)<sub>2</sub>"

Phys. Rev. B66 (2002) 12411.

#### BL08W&BL04B1

K. Aoki, K. Hosono, K. Tanimoto, M. Terasawa, H. Yamaoka, M. Tosaki, Y. Ito, V. Aurel, K. Taniguchi, and J. Tsuji

"Probability of nuclear excitation by electron transition on Os atoms"

Phys. Rev. C64 (2001) 044609-1.

A. Koizumi, S. Miyaki, Y. Kakutani, H. Koizumi, N. Hiraoka, K. Makoshi, N. Sakai, K. Hirota, and Y. Murakami

"Study of the e<sub>g</sub> Orbitals in the Bilayer Manganite La<sub>2-2x</sub> Sr<sub>1+2x</sub>Mn<sub>2</sub>O<sub>7</sub> by Using Magnetic Compton-Profile Measurement"

Phys. Rev. Lett. 86 (2001) 5589.

A. Deb, M. Itou, Y. Sakurai, N. Hiraoka, and N. Sakai

"Spin-dependent electron momentum densities in Co<sub>2</sub>FeGa studied by Compton scattering"

Radiat. Phys. Chem. 61 (2001) 545.

#### BL09XU

T. Hosoi, T. Shimura, and M. Umeno

"X-ray Scattering from the Crystalline SiO<sub>2</sub> in the Buried Oxide Layers of SIMOX Wafers"

Acta Cryst. A55, Suppl. (1999) 503.

M. Ito and M. Nakamura

"Surface X-ray Diffraction"

Electrochemistry 69 (2001) 11.

Y. Kobayashi, S. Nasu, T. Nakamichi, M. Sato, M. Seto, and Y. Yoda

"Nuclear Resonant Scattering of Ferromagnetic Amorphous Ribbon"

Jpn. J. Appl. Phys. 38-1 (1999) 412.

T. Shimura, T. Hosoi, and M. Umeno

"Characterization of SOI wafers by X-ray CTR scattering"

J. Cryst. Growth 210 (2000) 98.

H. Kobayashi, Y. Yoda, and T. Kamimura

"Mossbauer Spectroscopic Study of FeS under Pressure using Synchrotron Radiation"

J. Phys. Soc. Jpn. 70 (2001) 1128.

#### BL09XU&BL04B2

T. Kawakami, S. Nasu, T. Sasaki, S. Morimoto, S. Endo, S. Kawasaki, and M. Takano

"Charge Disproportionation and Magnetic Order of CaFeO<sub>3</sub> under High Pressure up to 65GPa"

J. Phys. Soc. Jpn. 70 (2001) 1491.

#### BL10XU

N. Hamaya and K. Sato

"Phase transition in AX<sub>4</sub> type molecular crystals under pressure"

Acta Cryst. A55, Suppl. (1999) 83.

K. Sato and N. Hamaya

"Structure analysis of non-molecular phase of SnI<sub>4</sub> using anomalous X-ray scattering at high pressures"

Acta Cryst. A55, Suppl. (1999) 553.

- BL10XU&BL02B1**
- T. Nagai, T. Hattori, and T. Yamanaka  
 "Compression mechanism of brucite: An investigation by structural refinement under pressure"  
*Ame. Mineral.* 85 (2000) 760.
- S. Ono, K. Hirose, N. Nishiyama, and M. Isshiki  
 "Phase boundary between rutile-type and CaCl<sub>2</sub>-type germanium dioxide determined by in situ X-ray observations"  
*Ame. Mineral.* 87 (2002) 99.
- M. Ishii and Y. Komukai  
 "Theoretical prediction of local distortion in an ErO<sub>6</sub> cluster: Stabilization of a C<sub>4v</sub> structure by a rack and pinion effect"  
*Appl. Phys. Lett.* 79 (2001) 934.
- J. Z. Jiang, K. Saksl, H. Rasmussen, T. Watanuki, N. Ishimatsu, and O. Shimomura  
 "High-pressure X-ray diffraction of icosahedral Zr-Al-Ni-Cu-Ag quasicrystals"  
*Appl. Phys. Lett.* 79 (2001) 1112.
- S. Ono, K. Hirose, M. Murakami, and M. Isshiki  
 "Post-stishovite phase boundary in SiO<sub>2</sub> determined by in situ X-ray observations"  
*Earth Planet. Sci. Lett.* 197 (2002) 187.
- M. Ishii, S. Komuro, T. Morikawa, and Y. Aoyagi  
 "Local structure analysis of an optically active center in Er-doped ZnO thin film"  
*J. Appl. Phys.* 89 (2001) 3679.
- Y. Izumi, F. Kiyotaki, H. Nagamori, and T. Minato  
 "Site-selective XAFS spectroscopy tuned to surface active sites of copper catalysts"  
*J. Electron Spectrosc. Relat. Phenom.* 119 (2001) 193.
- Y. Izumi, F. Kiyotaki, and Y. Seida  
 "Monitoring of Trace Amounts of Lead on an Adsorbent by X-ray Absorption Spectroscopy Combined with a Fluorescence Spectrometer"  
*J. Phys. Chem. B* 106 (2002) 1518.
- H. Hirano, S. Uehara, A. Mori, A. Onodera, K. Takemura, O. Shimomura, Y. Akahama, and H. Kawamura  
 "High-pressure phase transitions in AlSb"  
*J. Phys. Chem. Solids* 62 (2001) 941.
- I. Shirotani, K. Yamanashi, J. Hayashi, Y. Tanaka, N. Ishimatsu, O. Shimomura, and T. Kikegawa  
 "Phase transitions of LnAs (Ln=Pr, Nd, Sm, Gd, Dy and Ho) with NaCl-type structure at high pressures"  
*J. Phys.: Condens. Matter* 13 (2001) 1939.
- H. Oyanagi, M. Ishii, C. H. Lee, N. Saini, Y. Kuwahara, A. Saito, and H. Hashimoto  
 "Rapid and sensitive XAFS using a tunable X-ray undulator at BL10XU of SPring-8"  
*J. Synchrotron Rad.* 7 (2000) 89.
- M. Ishii  
 "Capacitance XAFS method: X-ray absorption spectroscopy of low-dimensional structures"  
*J. Synchrotron Rad.* 8 (2001) 331.
- Y. Izumi, H. Nagamori, F. Kiyotaki, and T. Minato  
 "Site-selective XAFS spectroscopy tuned to surface active sites of Cu/ZnO and Cr/SiO<sub>2</sub> catalysts"  
*J. Synchrotron Rad.* 8 (2001) 605.
- M. Ishii  
 "Capacitance X-Ray Absorption Fine Structure Method using Dopant Photoionization: X-Ray Absorption Spectroscopy of ~ nm Thickness Channel in Semiconductor Devices"  
*Jpn. J. Appl. Phys.* 40 (2001) 7129.
- Y. Ohishi, A. Q. R. Baron, M. Ishii, T. Ishikawa, and O. Shimomura  
 "Refractive X-ray lens for high pressure experiments at SPring-8"  
*Nucl. Instr. Meth. A* 467-468 (2001) 962.
- M. Ishii  
 "Capacitance X-ray absorption fine structure measurement using scanning probe A new method for local structure analysis of surface defects"  
*Physica B* 308-310 (2001) 1153.
- K. Nakano, Y. Akahama, H. Kawamura, M. Takumi, and K. Nagata  
 "Pressure-Induced Metallization and Structural Transition of Orthorhombic Se"  
*Phys. Stat. Sol. B* 223 (2001) 397.

- M. Takumi, A. Hirata, T. Ueda, Y. Koshio, H. Nishimura, and K. Nagata  
 "Structural Phase Transitions of  $\text{Ga}_2\text{Se}_3$  and  $\text{GaSe}$  under High Pressure"  
*Phys. Stat. Sol. B* 223 (2001) 423.
- Y. Akahama, H. Kawamura, and M. Kobayashi  
 "Simple cubic-simple hexagonal transition in phosphorus under pressure"  
*Phys. Rev. B* 59 (1999) 8520.
- C. H. Lee, H. Oyanagi, C. Sekine, I. Shirotani, and M. Ishii  
 "XANES Study of Rare-Earth Valency in  $\text{LRu}_4\text{P}_{12}$  ( $\text{L}=\text{Ce}$  and  $\text{Pr}$ )"  
*Phys. Rev. B* 60 (1999) 13253.
- K. Hayashi, M. Matsui, Y. Awakura, T. Kaneyoshi, H. Tanida, and M. Ishii  
 "Local-structure analysis around dopant atoms using multiple energy X-ray holography"  
*Phys. Rev. B* 63 (2001) 041201-1.
- S. M. Sharma, S. Karmakar, S. K. Sikka, P. V. Teredesai, A. K. Sood, A. Govindaraj, and C. N. R. Rao  
 "Pressure-induced phase transformation and structural resilience of single-wall carbon nanotube bundles"  
*Phys. Rev. B* 63 (2001) 205417.
- K. Prassides, Y. Iwasa, T. Ito, Dam H. Chi, K. Uehara, E. Nishibori, M. Takata, M. Sakata, Y. Ohishi, O. Shimomura, T. Muranaka, and J. Akimitsu  
 "Compressibility of the  $\text{MgB}_2$  superconductor"  
*Phys. Rev. B* 64 (2001) 012509-1.
- Y. Akahama, H. Kawamura, and O. Shimomura  
 "Structural phase transitions of solid oxygen at low temperature and high pressure"  
*Phys. Rev. B* 64 (2001) 054105-1.
- I. Shirotani, J. Hayashi, K. Yamanashi, N. Ishimatsu, O. Shimomura, and T. Kikegawa  
 "Pressure-induced Phase transition in lanthanide monoantimonides with  $\text{NaCl}$ -type structure"  
*Phys. Rev. B* 64 (2001) 132101.
- M. Ishii  
 "Site-specific X-ray absorption spectroscopy of electron traps by X-ray-induced displacement current measurement"  
*Phys. Rev. B* 65 (2002) 085310.
- A. Kuriki, Y. Moritomo, A. Machida, E. Nishibori, M. Takata, M. Sakata, Y. Ohishi, O. Shimomura, and A. Nakamura  
 "High-pressure structural analysis of  $(\text{Nd}, \text{Sm})_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ : Origin for pressure-induced charge ordering"  
*Phys. Rev. B* 65 (2002) 113105.
- H. Kawamura, Y. Akahama, S. Umemoto, K. Takemura, Y. Ohishi, and O. Shimomura  
 "X-ray powder diffraction from solid deuterium"  
*Solid State Commun.* 119 (2001) 29.
- BL11XU*
- BL11XU&BL09XU  
 R. Callens, R. Coussement, C. L'abbe, S. Naau, K. Vyvay, T. Yamada, Y. Yoda, and J. Odeurs  
 "Stroboscopic detection of nuclear forward-scattered synchrotron radiation"  
*Phys. Rev. B* 65 (2002) 180404-1.
- BL14B1*
- T. Saito, T. Terashima, M. Azuma, M. Takano, T. Goto, H. Ohta, W. Utsumi, P. Bordet, and D. C. Johnston  
 "Single Crystal Growth of the High Pressure Phase of  $(\text{VO})_2\text{P}_2\text{O}_7$  at 3 GPa"  
*J. Solid State Chem.* 153 (2000) 124.
- O. Ohtaka, A. Yoshiasa, H. Fukui, K. Murai, M. Okube, Y. Katayama, W. Utsumi, and Y. Nishihata  
 "Structural changes of quartz-type crystalline and vitreous  $\text{GeO}_2$  under pressure"  
*J. Synchrotron Rad.* 8 (2001) 791.
- K. Suzuya, S. Kohara, Y. Yoneda, and N. Umesaki  
 "High energy X-ray study of the structure of vitreous  $\text{B}_2\text{O}_3$ "  
*Phys. Chem. Glass.* 41 (2000) 282.

## BL16B2

S. Matsuo, N. Sakaguchi, E. Obuchi, K. Nakano, R. C. C. Perera, T. Watanabe, T. Matsuo, and H. Wakita  
"X-ray Absorption Spectral Analyses by Theoretical Calculations for TiO<sub>2</sub> and Ni-Doped TiO<sub>2</sub> Thin Films on Glass Plates"  
Anal. Sci. 17 (2001) 149.

A. Yamada, Y. Kudo, and K.-Y. Liu  
"Reaction Mechanism of the Olivine-Type Li<sub>x</sub>(Mn<sub>0.6</sub>Fe<sub>0.4</sub>)PO<sub>4</sub>"  
J. Electrochem. Soc. 148 (2001) A747.

A. Yamada, Y. Kudo, and K. -Y. Liu  
"Phase Diagram of Li<sub>x</sub> (Mn<sub>y</sub>Fe<sub>1-y</sub>)PO<sub>4</sub> (0 ≤ x, y ≤ 1)"  
J. Electrochem. Soc. 148 (2001) A1153.

T. Nonaka, C. Okuda, Y. Ukyo, and T. Okamoto  
"In situ XAFS study on cathode materials for lithium-ion batteries"  
J. Synchrotron Rad. 8 (2001) 869.

## BL16B2&BL01B1

T. Miyajima, Y. Kudo, K.-Y. Liu, T. Uruga, T. Asatsuma, T. Hino, and T. Kobayashi  
"Local Structure Analysis of Ga<sub>1-x</sub>In<sub>x</sub>N Alloy Using Extended X-ray Absorption Fine Structure Measurements"  
Phys. Stat. Sol. B228 (2001) 45.

H. Yoshida, H. Deguchi, K. Miura, M. Horiuchi, and T. Inagaki  
"Investigation of the relationship between the ionic conductivity and the local structures of singly and doubly doped ceria compounds using EXAFS measurement"  
Solid State Ionics 140 (2001) 191.

G. Li, Y. Iijima, Y. Kudo, and H. Azuma  
"Structural changes of manganese spinel at elevated temperatures"  
Solid State Ionics 146 (2002) 55.

## BL16XU

S. Kimura, K. Izumi, and T. Tatsumi  
"Tetragonal distortion of c domains in fatigued Pb (Zr,Ti)O<sub>3</sub> thin films determined by X-ray diffraction measurements with highly brilliant synchrotron radiation"  
Appl. Phys. Lett. 80 (2002) 2365.

N. Awaji, S. Ozaki, J. Nishino, S. Noguchi, T. Yamamoto, T. Syoji, M. Yamagami, A. Kobayashi, Y. Hirai, M. Shibata, K. Yamaguchi, K. Y. Liu, S. Kawado, M. Takahashi, S. Yasuami, and I. Konomi  
"Wavelength-Dispersive Total Reflection X-ray Fluorescence with High-Brilliance Undulator Radiation at SPring-8"  
Jpn. J. Appl. Phys. 39 (2000) 1252.

M. Hasegawa and Y. Hirai  
"Microscopic observation of Cu damascene interconnect grains using x-ray microbeam"  
J. Appl. Phys. 90 (2001) 2792.

## BL20B2

E. Tanaka, A. Tanaka, T. Sekka, Y. Shinozaki, K. Hyodo, K. Umetani, and H. Mori  
"Digitized cerebral synchrotron radiation angiography: quantitative evaluation of the canine circle of Willis and its large and small branches."  
Ame. J. Neuroradiology 20 (1999) 801.

H. Mori, E. Tanaka, K. Hyodo, T. Sekka, K. Ito, Y. Shinozaki, A. Tanaka, H. Nakazawa, S. Abe, S. Handa, M. Kubota, K. Tanioka, K. Umetani, and M. Ando  
"Synchrotron microangiography reveals configurational changes and to-and-fro flow in intramyocardial vessels"  
Am. J. Physiol. 276 (1999) H429.

A. Tanaka, H. Mori, E. Tanaka, Y. Tanaka, T. Sekka, K. Ito, Y. Shinozaki, K. Hyodo, M. Ando, K. Umetani, K. Tanioka, M. Kubota, S. Abe, S. Handa, and H. Nakazawa  
"Branching patterns of intramural coronary vessels determined by microangiography using synchrotron radiation"  
Am. J. Physiol. 276 (1999) H2262.

- K. Umetani, T. Yamashita, N. Maehara, S. Imai, and Y. Kajihara  
 "Synchrotron Radiation Microangiography for Real-Time Observation of Angiogenic Vessels in Cancer"  
*Anal. Sci.* 17 Suppl. (2001) i531.
- K. Mori, H. Sato, N. Sekine, N. Shikano, M. Sato, D. Shimao, T. Igarashi, H. Shiwaku, and K. Hyogo  
 "Development of Phase Contract Radiography for Bone Imaging Using Synchrotron Radiation"  
*Anal. Sci.* 17 Suppl. (2001) 1427.
- K. Umetani, S. Itasaka, M. Ogura, H. Kimura, and M. Hiraoka  
 "Synchrotron Radiation Microangiography System for Observation of Blood Flow in Murine Tumor Vasculature"  
*Bioimages* 9 (3-4) (2001) 97.
- T. Yamashita, S. Kawashima, M. Ozaki, M. Namiki, T. Hirase, N. Inoue, K. Hirata, K. Umetani, K. Sugiura, and M. Yokoyama  
 "Mouse Coronary Angiograph Using Synchrotron Radiation Microangiography"  
*Circulation* 105 (2002) 3.
- E. Toyota, K. Fujimoto, Y. Ogasawara, T. Kajita, F. Shigeto, T. Matsumoto, M. Goto, and F. Kajiya  
 "Dynamic Changes in Three-Dimensional Architecture and Vascular Volume of Transmural Coronary Microvasculature Between Diastolic-and Systolic-Arrested Rat Hearts"  
*Circulation* 105 (2002) 621.
- T. Yamahita  
 "Evaluation of the Microangioarchitecture of Tumors by Use of Monochromatic X-Rays"  
*Invest. Radiol.* 36 (2001) 713.
- M. Ando, H. Sugiyama, A. Maksimenko, W. Pattanasiriwisawa, K. Hyodo, and Z. Xiaowei  
 "A New Optics for Dark Field Imaging in X-Ray Region 'Owl'"  
*Jpn. J. Appl. Phys.* 40 (2001) L844.
- T. Sekka, A. Tanaka, M. Hasegawa, Y. Tanaka, Y. Ohtani, T. Tajima, H. Makuuchi, E. Tanaka, Y. Iwata, S. Sato, K. Hyodo, M. Ando, K. Umetani, M. Kubota, K. Tanioka, and H. Mori  
 "Visualization, quantification, and therapeutic evaluation of angiogenic vessels in cancer by synchrotron microangiography"  
*J. Synchrotron Rad.* 7 (2000) 361.
- S. Kawado, S. Iida, S. Yamaguchi, S. Kimura, Y. Hirose, K. Kajiwara, Y. Chikaura, and M. Umeno  
 "Synchrotron-radiation X-ray topography of surface strain in large-diameter silicon wafers"  
*J. Synchrotron Rad.* 9 (2002) 166.
- K. Umetani  
 "Development of High-resolution Imaging System for Synchrotron Rediation Microangiography"  
*Medical Imaging Technol.* 18 (2000) 439.
- T. Yamashita, S. Kawashima, M. Ozaki, M. Namiki, S. Satomi-Kobayashi, T. Seno, Y. Matsuda, N. Inoue, K. Hirata, H. Akita, K. Umetani, E. Tanaka, H. Mori, and M. Yokoyama  
 "Role of Endogenous Nitric Oxide Generation in the Regulation of Vascular Tone and Reactivity in Small Vessels as Investigated in Transgenic Mice Using Synchrotron Radiation Microangiography"  
*Nitric Oxide: Biol. Chem.* 5 (2001) 494.
- Y. Suzuki, K. Uesugi, and S. Aoki  
 "At wavelength focusing properties evaluation of the Wolter type grazing incidence mirror"  
*Nucl. Instr. Meth. A* 467-468 (2001) 302.
- Y. Kohmura, A. Takeuchi, H. Takano, Y. Suzuki, T. Ishikawa, T. Ohigashi, H. Yokosuka, and K. Okada  
 "High spatial resolution hard X-ray microscope using X-ray refractive lens and phase contrast imaging experiments"  
*Nucl. Instr. Meth. A* 467-468 (2001) 881.
- T. Yamashita, S. Imai, N. Maehara, Y. Kajihara, and K. Umetani  
 "Experimental studies of the microangioarchitecture of tumors using monochromatic X-ray at SPring-8"  
*Nucl. Instr. Meth. A* 467-468 (2001) 1346.

H. Ikura, K. Shimizu, H. Ebara, J. Ikezoe, T. Nagareda, and N. Yagi

"Ultra high-resolution CT of the human lung specimen: synchrotron radiation CT and micro focus X-ray CT"  
Radiology 221(P) (2001) 206.

#### BL23SU

M. Tanaka, K. Nakagawa, T. Koketsu, A. Agui, and A. Yokoya

"Oxygen K-edge X-ray absorption near edge structures (XANES) of sublimated films of amino acids"  
J. Synchrotron Rad. 8 (2001) 1009.

M. Oura, H. Yamaoka, K. Kawatsura, J. Kimata, T. Hayaishi, T. Takahashi, T. Koizumi, T. Sekioka, M. Terasawa, Y. Itoh, Y. Awaya, A. Yokoya, A. Agui, A. Yoshigoe, and Y. Saitoh  
"Photoionization of Ne<sup>3+</sup> ions in the region of the 1s→2p autoionizing resonance"

Phys. Rev. A63 (2001) 014704.

M. Doi, A. Asano, T. Ishida, Y. Katsuya, Y. Mezaki, M. Sasaki, A. Terashima, T. Taniguchi, H. Hasegawa, and M. Shiono

"Caged and clustered structures of endothelin inhibitor BQ123, cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-) Na<sup>+</sup>, forming five and six coordination bonds between sodium ions and peptides"

Acta Cryst. D57 (2001) 628.

A. Asano, T. Taniguchi, M. Sasaki, H. Hasegawa, Y. Katsuya, and M. Doi

"A β-sheet structure formed by C-H...O hydrogen bonds between the thiazole rings and amide bonds of a dimeric desoxazoline ascidiacyclamide analogue"

Acta Cryst. E57 (2001) 0834.

M. Doi, A. Asano, Y. Usami, Y. Katsuya, M. Nakai, M. Sasaki, T. Taniguchi, and H. Hasegawa

"A folded conformation of an ascidiacyclamide derivative: 3-methoxysulfoxide-(2R,3R)-threoninyl desoxazoline-ascidiacyclamide"

Acta Cryst. E57 (2001) 01019.

#### BL24XU

M. Doi, T. Ishida, Y. Katsuya, M. Sasaki, T. Taniguchi, H. Hasegawa, T. Mimoto, and Y. Kiso

"KNI-272, a highly selective and potent peptidic HIV protease inhibitor"

Acta Cryst. C57 (2001) 1333.

M. Aoki, M. Iwamoto-Sugai, I. Sugiura, C. Sasaki, T. Hasegawa, C. Okumura, S. Sugio, T. Kohno, and T. Matsuzaki  
"Expression, purification and crystallization of human tau-protein kinase 1/glycogen synthase kinase-3beta"

Acta Cryst. D56 (2000) 1464.

N. Kudo, M. D. Allen, H. Koike, Y. Katsuya, and M. Suzuki  
"Crystallization and secondary-structure determination of a protein of the Lrp/AsnC family from a hyperthermophilic archaeon"

Acta Cryst. D57 (2001) 469.

A. Asano, Y. Katsuya, M. Sasaki, T. Taniguchi, H. Hasegawa, and M. Doi

"Crystal Structure of 2-[N-(t-Butoxycarbonyl)amino]-4-(thymine-1-yl)-butyric Acid Methyl Ester"

Anal. Sci. 17 (2001) 361.

K. Kobayashi, K. Izumi, H. Kimura, S. Kimura, T. Ibuki, Y. Yokoyama, Y. Tsusaka, Y. Kagoshima, and J. Matsui

"X-ray phase-contrast imaging with submicron resolution by using extremely asymmetric Bragg diffractions"

Appl. Phys. Lett. 78 (2001) 132.

M. Doi, S. Fujita, Y. Katsuya, M. Sasaki, T. Taniguchi, and H. Hasegawa

"Antiparallel Plated β-Sheets Observed in Crystal Structures of N, N-Bis(trichloroacetyl) and N, N-Bis(m-bromobenzoyl) GramicidinS"

Arch. Biochem. Biophys. 395 (2001) 85.

- A. Asano, M. Doi, K. Kobayashi, M. Arimoto, T. Ishida, Y. Katsuya, Y. Mezaki, H. Hasegawa, M. Nakai, M. Sasaki, T. Taniguchi, and A. Terashima  
 "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 (-lle-aThr-D-Val-Thz-) 2, cyclo (-Ala-aThr-D-Val-Thz-lle-aThr-D-V)"  
*Biopolymers* 58 (2001) 295.
- H. Izumi, F. Adurodija, T. Kaneyoshi, T. Ishihara, H. Yoshioka, and M. Motoyama  
 "Electrical and structural properties of indium tin oxide films prepared by pulsed laser deposition"  
*J. Appl. Phys.* 91 (2002) 1213.
- Y. Zhang, T. Katoh, Y. Kagoshima, J. Matui, and Y. Tsusaka  
 "Focusing Hard X-Ray with a Single Lens"  
*Jpn. J. Appl. Phys.* 40 (2001) L75.
- Y. Kagoshima, T. Ibuki, Y. Yokoyama, Y. Tsusaka, J. Matsui, K. Takai, and M. Aino  
 "10keV X-Ray Phase-Contrast Microscopy for Observing Transparent Specimens"  
*Jpn. J. Appl. Phys.* 40 (2001) 1190.
- Y. Kagoshima, T. Ibuki, Y. Yokoyama, K. Takai, Y. Tsusaka, and J. Matsui  
 "230nm Resolution 10keV X-Ray Imaging Transmission Microscope with Parallel Beam Illumination"  
*Jpn. J. Appl. Phys.* 41 (2002) 412.
- Y. Tsusaka, K. Yokoyama, K. Takai, S. Takeda, Y. Kagoshima, and J. Matsui  
 "Hyogo beamline at SPring-8: multiple station beamline with the TROIKA concept"  
*Nucl. Instr. Meth. A* 467-468 (2001) 670.
- Y. Kagoshima, K. Takai, T. Ibuki, Y. Yokoyama, T. Hashida, K. Yokoyama, S. Takeda, M. Urakawa, N. Miyamoto, Y. Tsusaka, J. Matsui, and M. Aino  
 "Scanning hard X-ray microscope with tantalum phase zone plate at the Hyogo-BL (BL24XU) of SPring-8"  
*Nucl. Instr. Meth. A* 467-468 (2001) 872.
- BL24XU&BL40B2  
 D. Tsuchiya, N. Kunishima, N. Kamiya, H. Jingami, and K. Morikawa  
 "Structural views of the ligand-binding cores of a metabotropic glutamate receptor complexed with an antagonist and both glutamate and Gd<sup>3+</sup>"  
*Proc. Natl. Acad. Sci. USA* 99 (2002) 2660.
- BL25SU*
- T. Miyahara, H. Ishii, S. Imada, Y. Saitoh, Rang-J. Jung, H. Kimura, S. Suga, H. Sugawara, and H. Sato  
 "Importance of Measurements of Small MCD Signals at Temperatures Higher than Tc: Distinction between Itinerant and Localized Magnetism"  
*Jpn. J. Appl. Phys.* 38-1 (1999) 396.
- S. Suga and A. Sekiyama  
 "High-resolution soft X-ray bulk sensitive photoemission from strongly correlated systems"  
*J. Electron Spectrosc. Relat. Phenom.* 114-116 (2001) 659.
- A. Sekiyama, S. Suga, T. Iwasaki, S. Ueda, S. Imada, Y. Saitoh, T. Yoshino, D. T. Adroja, and T. Takabatake  
 "Bulk-sensitive high-resolution ce 3d-4f resonance photoemission study of CeNiSn and CePdSn"  
*J. Electron Spectrosc. Relat. Phenom.* 114-116 (2001) 699.
- S. Imada, S. Suga, T. Sato, R. Jung, and H. Ido  
 "Electronic and magnetic states of RC<sub>0.5-x</sub>B<sub>x</sub> investigated by photoemission and soft X-ray MCD"  
*J. Magn. Magn. Mat.* 226-230 (2001) 1193.
- T. Kato, Y. Fujiwara, S. Iwata, and S. Tsunashima  
 "Magnetic circular dichroism spectra of MnPt<sub>3</sub>/Co multilayers"  
*J. Magn. Magn. Mat.* 240 (2002) 517.
- T. Miyahara, H. Ishii, Y. Takayama, M. Hirose, K. Maruyama, K. Obu, M. Shinoda, T. Muro, Y. Saitoh, T. D. Matsuda, H. Sugawara, and H. Sato  
 "MCD study on Materials without Magnetic Order"  
*J. Phys. Soc. Jpn* 70 (2001) 2977.

- K. Soda, O. Yoshimoto, H. Nozaki, T. Takeuchi, U. Mizutani, H. Kato, M. Kato, Y. Nishino, S. Imada, S. Suga, T. Matsushita, and Y. Saitoh  
 "Magnetic circular dichroism at transition metal  $L_{2,3}$  edges in  $D0_3$ -type  $(Fe_{1-x}Mn_x)_3Al$  alloys"  
*J. Synchrotron Rad.* 8 (2001) 455.
- O. Yoshimoto, M. Kato, K. Soda, H. Nozaki, T. Takeuchi, U. Mizutani, M. Kato, Y. Nishino, S. Imada, S. Suga, T. Matsushita, and Y. Saitoh  
 "Magnetic circular dichroism at transition metal  $L_{2,3}$  edges in  $D0_3$ -type  $(Fe_{1-x}V_x)_3Al$  alloys"  
*J. Synchrotron Rad.* 8 (2001) 457.
- A. Sekiyama and S. Suga  
 "Bulk-sensitive high-energy and high-resolution photoemission study of strongly correlated Ce compounds"  
*Physica* B312-313 (2002) 634.
- S. Ueda, S. Imada, T. Muro, Y. Saitoh, S. Suga, F. Matsukura, and H. Ohno  
 "Magnetic circular dichroism in Mn 2p core absorption of  $Ga_{1-x}Mn_xAs$ "  
*Physica* E10 (2001) 210.
- A. Yamasaki, S. Imada, H. Utsunomiya, T. Muro, Y. Saitoh, H. Negishi, M. Sasaki, M. Inoue, and S. Suga  
 "Magnetic circular dichroism in the soft X-ray absorption spectra of intercalation compounds  $Fe_xTiS_2$ "  
*Physica* E10 (2001) 387.
- T. Iwasaki, A. Sekiyama, A. Yamasaki, M. Okazaki, K. Kadono, H. Utsunomiya, S. Imada, Y. Saitoh, T. Muro, T. Matsushita, H. Harima, S. Yoshii, M. Kasaya, A. Ochiai, T. Oguchi, and K. Katoh  
 "High-resolution resonance photoemission study of CeMX ( $M=Pt, Pd; X=P, As, Sb$ )"  
*Phys. Rev. B* 65 (2002) 195109.
- H. Daimon  
 "Stereoscopic microscopy of atomic arrangement by circularly Polarized-Light Photoelectron Diffraction"  
*Phys. Rev. Lett.* 86 (2000) 2034.
- A. Sekiyama, S. Suga, S. Ueda, S. Imada, K. Matsuda, T. Iwasaki, M. Hedo, E. Yamamoto, Y. Haga, Y. Onuki, Y. Saitoh, T. Matsushita, T. Nakatani, M. Kotsugi, S. Tanaka, and H. Harima  
 "Itinerant bulk 4f character of strongly valence-fluctuating  $CeRu_2$  observed by high-resolution Ce 3d-4f resonance photoemission"  
*Solid State Commun.* 121 (2002) 561.
- K. Enomoto, Y. Miyatake, K. Fukumoto, A. Kobayashi, K. Hattori, H. Daimon, M. Kotsugi, S. Suga, T. Nakatani, and T. Matsushita  
 "Two-dimensional circularly-polarized-light photoelectron diffraction for the analysis of magnetic and electronic properties on surface"  
*Surf. Rev. Lett.* 7 (2000) 643.
- H. Daimon, S. Imada, and S. Suga  
 "Direct surface-structure analysis by the peak rotation in circularly polarized-light photoelectron diffracton"  
*Surf. Sci.* 471 (2001) 143.
- W. Kuch, J. Gilles, F. Offi, S. S. Kang, S. Imada, S. Suga, and J. Kirschner  
 "Element-selective mapping of magnetic moments in ultrathin magnetic films using a photoemission microscope"  
*Surf. Sci.* 480 (2001) 153.
- K. Hattori, A. Kobayashi, K. Fukumoto, Y. Miyatake, H. Daimon, M. Kotsugi, S. Suga, T. Nakatani, and T. Matsushita  
 "Effective magnetic quantum number and effective emitter-scatterer distance obtained from W 4f photoelectron diffraction induced by circularly polarized light on W (110)"  
*Surf. Sci.* 493 (2001) 15.
- T. Kato, K. Sugihara, H. Ito, Y. Fujiwara, S. Iwata, and S. Tsunashima  
 "Magnetic Circular Dichroism of Polycrystalline  $(Mn_{1-x}Cr_x)Pt_3$  and Epitaxial CrPt<sub>3</sub> Alloy Films"  
*Trans. Magn. Soc. Jpn.* 2 (2002) 98.

*BL27SU*

Y. Muramatsu, Y. Shimizu, H. Yoshida, K. Okada, N. Saito, I. Koyano, H. Tanaka, and K. Ueda  
"Nuclear motion ini the O 1s<sup>-1</sup>2π<sub>u</sub> core-excited states of CO<sub>2</sub> probed by sub-natural-width resonant Auger emission spectroscopy"  
Chem. Phys. Lett. 330 (2000) 91.

T. Tanaka, M. Oura, H. Ohashi, S. Goto, Y. Suzuki, and H. Kitamura  
"Characterization of radiation from a figure-8 undulator by a gas-scattering method"  
J. Appl. Phys. 88 (2000) 2101.

Y. Shimizu, H. Ohashi, Y. Tamenori, Y. Muramatsu, H. Yoshida, K. Okada, N. Saito, H. Tanaka, I. Koyano, S. Shin, and K. Ueda  
"Sub-natural-width angle-resolved resonant Auger electron spectroscopy of atoms and molecules on the high resolution soft X-ray monochromator at SPring-8"  
J. Electron Spectrosc. Relat. Phenom. 114-116 (2001) 63.

S. Nagaoka, T. Ibuki, N. Saito, Y. Shimizu, Y. Senba, K. Kamimori, Y. Tamenori, H. Ohashi, I. and H. Suzuki  
"Resonant Auger spectrum following Kr:2p 5s photoexcitation"  
J. Phys. B33 (2000) L605.

Y. Shimizu, H. Yoshida, K. Okada, Y. Muramatsu, N. Saito, H. Ohashi, Y. Tamenori, S. Fritzsche, N. Kabachnik, H. Tanaka, and K. Ueda  
"High resolution angle-resolved measurments of Auger emission from the phot-excited 1s<sup>-1</sup>3p state of Ne"  
J. Phys. B33 (2000) L685.

A. De Fanis, N. Saito, M. Kitajima, Y. Shimizu, K. Okada, H. Tanaka, I. Koyano, and K. Ueda  
"High resolution measurement for resonant Auger emission of Xe following 3d<sub>5/2</sub> 6p excitation"  
J. Phys. B34 (2001) L377.

Y. Tamenori, K. Okada, S. Tanimoto, H. Yoshida, S. Nagaoka, A. Fujii, Y. Shimizu, Y. Haga, T. Ibuki, H. Ohashi, I. and H. Suzuki  
"A study on multi-charged Xe ions formed through 3d hole states using a coincidence technique"  
J. Phys. B35 (2002) 2799.

O. Maida, N. Kohma, M. Ueno, A. Shibuya, T. Kanashima, M. Okuyama, and H. Ohashi  
"Evaporation and Expansion of Poly-tetra-fluoro-ethylene Induced by Irradiation of Soft X-rays from a Figure-8 Undulator"  
Jpn. J. Appl. Phys. 40 (2001) 2435.

T. Kanashima, O. Maida, N. Kohma, M. Agata, S. Yudate, M. Ueno, M. Okuyama, and H. Ohashi  
"Synchrotron Radiation-Induced Nitration and Oxidation on Si Surface at Low Temperature"  
Jpn. J. Appl. Phys. 40 (2001) 4195.

K. Ueda, H. Yoshida, Y. Senba, K. Okada, Y. Shimizu, H. Chiba, H. Ohashi, Y. Tamenori, H. Okumura, N. Saito, S. Nagaoka, A. Hiraya, E. Ishiguro, T. Ibuki, I. H. Suzuki, and I. Koyano  
"Angle-resolved electron and ion spectroscopy apparatus on the soft X-ray photochemistry beamline"  
Nucl. Instr. Meth. A467-468 (2001) 1502.

A. Hiraya, K. Nobusada, M. Simon, K. Okada, T. Tokushima, Y. Senba, H. Yoshida, K. Kamimori, H. Okumura, Y. Shimizu, A. -L. Thomas, P. Millie, I. Koyano, and K. Ueda  
"H<sub>2</sub><sup>+</sup> formation from H<sub>2</sub>O<sup>+</sup>mediated by the core-excitation-induced nuclear motion in H<sub>2</sub>O"  
Phys. Rev. A63 (2001) 042705-1.

A. De Fanis, N. Saito, A. A. Pavlychev, D. Yu. Ladonin, M. Machida, K. Kubozuka, I. Koyano, K. Okada, K. Ikejiri, A. Cassimi, A. Czasch, R. Doerner, H. Chiba, Y. Sato, and K. Ueda  
"Symmetry-dependent Multielectron Excitations near the C 1s Ionization Threshold and Distortion of the Shape Resonance in CO<sub>2</sub>"  
Phys. Rev. Lett. 89 (2002) 023006.

K. Ueda  
"Nuclear Motion, Symmetry Breaking and Dissociation Dynamics of Core-excited Polyatomic Molecules"  
Surf. Rev. Lett. 9 (2002) 21.

K. Okada, Y. Tamenori, I. Koyano, and K. Ueda  
"Symmetry Breaking of a SiF<sub>4</sub> Molecule by F 1s Excitation"  
Surf. Rev. Lett. 9 (2002) 89.

A. De Fanis, K. Okada, Y. Shimizu, M. Okamoto, K. Kubozuka, N. Saito, I. Koyano, and K. Ueda  
"First observation of resonant Auger decay of Xe  $3d^16p$  to  $Xe^+4d^2nl$ "  
Surf. Rev. Lett. 9 (2002) 51.

#### BL28B2

Y. Chikaura, S. Iida, S. Kawado, K. Mizuno, S. Kimura, J. Matsui, M. Umeno, T. Ozaki, T. Shimura, Y. Suzuki, K. Izumi, K. Kawasaki, K. Kajiwara, and T. Ishikawa  
"Construction of topography stations at SPring-8 and first observations"  
J. Phys. D34 (2001) A158.

N. Oyanagi, H. Yamaguchi, T. Kato, S. Nishizawa, and K. Arai  
"Growth abd Evaluation of High Quality SiC Crystal by Sublimation Method"  
Mater. Sci. Forum 389-393 (2002) 87.

#### BL39XU

H. Eba, C. Numako, J. Ihara, and K. Sakurai  
"Trace Chemical Characterization Using Monochromatic X-ray Undulator Radiation"  
Anal. Chem. 72 (2000) 2613.

S. Hayakawa, S. Tohno, K. Takagawa, A. Hamamoto, Y. Nishida, M. Suzuki, Y. Sato, and T. Hirokawa  
"Ultra Trace Characterization Using An X-Ray Microprobe at SPring-8 BL39XU"  
Anal. Sci. 17 Suppl. (2001) i115.

N. Jaouen, J. M. Tonnerre, D. Raoux, L. Ortega, E. Bontempi, M. Munzenberg, W. Felsch, M. Suzuki, H. Maruyama, H. A. Durr, E. Dudzik, and G. van der Laan  
"Ce  $5d$  and Fe  $3d$  magnetic profiles in CeH<sub>2</sub>/Fe multilayers probed by XRMS"  
Appl. Phys. A73 (2001) 711.

A. Ide-Ektessa, S. Fujisawa, and S. Yoshida  
"Chemical state imaging of iron in nerve cells from a patient with Parkinsonism-dementia complex"  
J. Appl. Phys. 91 (2002) 1613.

K. Sakurai, H. Eba, and S. Goto  
"Grazing Incidence X-ray Fluorescence and Scattering Experiments at BL-39XU, SPring-8"  
Jpn. J. Appl. Phys. 38-1 (1999) 332.

K. Sakurai and H. Eba  
"X-Ray Fluorescence Analysis with a Johansson-type Spectrometer"  
Jpn. J. Appl. Phys. 38-1 (1999) 650.

K. Sakurai, S. Uehara, and S. Goto  
"A Grazing-incidence reflectometer for BL-39XU at SPring-8"  
J. Synchrotron Rad. 5 (1998) 554.

S. Hayakawa, S. Goto, T. Shoji, E. Yamada, and Y. Gohshi  
"X-ray microprobe system for XRF analysis and spectroscopy at SPring-8 BL39XU"  
J. Synchrotron Rad. 5 (1998) 1114.

H. Maruyama  
"Study of magnetic materials using helicity-modulated X-ray magnetic circular dichroism"  
J. Synchrotron Rad. 8 (2001) 125.

S. Hayakawa, N. Ikuta, M. Suzuki, and T. Hirokawa  
"Generation of an X-ray microbeam for spectromicroscopy at SPring-8 BL39XU"  
J. Synchrotron Rad. 8 (2001) 328.

N. Kawamura, T. Yamamoto, H. Maruyama, I. Harada, M. Suzuki, and T. Ishikawa  
"Multielectron excitations probed by helicity-modulation XMCD at K-edge in 3d transition metal compounds"  
J. Synchrotron Rad. 8 (2001) 410.

S. Uemoto, H. Maruyama, N. Kawamura, S. Uemura, N. Kitamoto, H. Nakao, S. Hara, M. Suzuki, D. Fruchart, and H. Yamazaki  
"Mn K-edge XMCD in Mn<sub>3</sub>MC(M=Zn and Ga) perovskite"  
J. Synchrotron Rad. 8 (2001) 449.

N. Kitamura and A. Ektessabi  
"XAES in a single macrophage cell"  
J. Synchrotron Rad. 8 (2001) 981.

- S. Yoshida, A. Ektessabi, and S. Fujisawa  
 "XANES spectroscopy of a single neuron from a patient with Parkinson's disease"  
*J. Synchrotron Rad.* 8 (2001) 998.
- J. Kawai, K. Takagawa, S. Fujisawa, A. Ektessabi, and S. Hayakawa  
 "Microbeam XANES and X-ray Fluorescence Analysis of Cadmium in Kidney"  
*J. Trace Microprobe Tech.* 19 (2001) 541.
- S. Hayakawa, M. Suzuki, M. Oshima, and T. Hirokawa  
 "Development of a compact beam intensity monitor for micro X-ray absorption fine structure measurements"  
*Nucl. Instr. Meth. A* 467-468 (2001) 901.
- S. Hayakawa, A. Yamaguchi, Y. Gohshi, T. Yamamoto, K. Hayashi, J. Kawai, and S. Goto  
 "A wavelength dispersive X-ray spectrometer for small area X-ray fluorescence spectroscopy at SPring-8 BL39XU"  
*Spectrochim. Acta B* 54 (1999) 171.
- A. Ektessabi, S. Shikine, N. Kitamura, M. Rokkum, and C. Johansson  
 "Distribution and chemical states of iron and chromium released from orthopedic implants into human tissues"  
*X-Ray Spectrometry* 30 (2001) 44.
- M. Sai, K. Hayashi, and J. Kawai  
 "蛍光 X 線ホログラフィーの再現性"  
*X 線分析の進歩* 31 (2000) 75.
- BL40B2*
- T. Matsuura, M. Unno, H. Sakai, T. Tsukihara, and S. Norioka  
 "Purification and crystallization of Japanese pear S-RNase associated with gametophytic self-incompatibility"  
*Acta Cryst. D* 57 (2001) 172.
- T. Hibi, H. Hisada, T. Nakatsu, H. Kato, and J. Oda  
 "Escherichia coli B gamma-glutamylcysteine synthetase: modification, purification, crystallization and preliminary crystallographic analysis"  
*Acta Cryst. D* 58 (2002) 316.
- J. Sasaki, M. Kumauchi, N. Hamada, T. Oka, and F. Tokunaga  
 "Light-Induced Unfolding of Photoactive Yellow Protein Mutant M100L"  
*Biochemistry* 41 (2002) 1915.
- K. Sakurai and K. Inoue  
 "A Hexagonally Organized Elemental Supramolecular Structure of a Sugar-Appended Organogelator Observed by Synchrotron X-ray Source (SPring-8) Kazuo"  
*Chem. Lett.* (2001) 746.
- M. Otagiri, G. Kurisu, S. Ui, Y. Takusagawa, M. Ohkuma, T. Kudo, and M. Kusunoki  
 "Crystal Structure of *meso*-2,3-Butanediol Dehydrogenase in a Complex with NAD<sup>+</sup> and Inhibitor Mercaptoethanol at 1.7 Å Resolution for Understanding of Chiral Substrate Recognition Mechanisms"  
*J. Biochem.* 129 (2001) 205.
- S. Ito, K. Wakabayashi, O. Ubukata, S. Hayashi, F. Okada, and T. Hata  
 "Crystal Structure of the Extracellular Domain of Mouse RANK Ligand at 2.2-Å Resolution"  
*J. Biol. Chem.* 277 (2002) 6631.
- R. Mizutani, S. Nogami, M. Kawasaki, Y. Ohya, Y. Anraku, and Y. Satow  
 "Protein-splicing reaction via a thiazolidine intermediate: crystal structure of the VMA1-derived endonuclease bearing the N- and C-terminal propeptides"  
*J. Mol. Biol.* 316 (2002) 919.
- F-A. Samatey, K. Imada, F. Vonderviszt, Y. Shiraki, and K. Namba  
 "Crystallization of the F41 Fragment of Flagellin and Data Collection from Extremely Thin Crystals"  
*J. Struct. Biol.* 132 (2000) 106.
- M. Fujihashi, Y-W. Zhang, Y. Higuchi, X-Y. Li, T. Koyama, and K. Miki  
 "Crystal structure of cis-prenyl chain elongating enzyme, undecaprenyl diphosphate synthase"  
*Proc. Natl. Acad. Sci. USA* 98 (2001) 4337.

- H. Komori, R. Masui, S. Kutamitsu, S. Yokoyama, T. Shibata, Y. Inoue, and K. Miki  
 "Crystal structure of thermostable DNA photolyase: Pyrimidine-dimer recognition mechanism"  
*Proc. Natl. Acad. Sci. USA* 98 (2001) 13560.
- H. Komori, H. Tsujiuchi, R. Masui, S. Kutamitsu, S. Yokoyama, T. Shibata, Y. Inoue, and K. Miki  
 "Crystallization and Preliminary X-ray Studies of a Thermostable DNA Photolyase from *Thermus thermophilus*"  
*Protein and Peptide Lett.* 8 (2001) 495.
- K. Takano, Y. Yamagata, and K. Yutani  
 "Role of Non-Glycine Residues in Left-Handed Helical Conformation for the Conformational Stability Human Lysozyme"  
*Proteins* 44 (2001) 233.
- K. Takano, Y. Yamagata, and K. Yutani  
 "Role of Amino Acid Residues in Left-handed Helical Conformation for the Conformational Stability of a Protein"  
*Proteins* 45 (2001) 274.
- BL40XU**
- K. Sakurai, H. Eba, K. Inoue, and N. Yagi  
 "Downsizing of Johansson spectrometer for X-ray fluorescence trace analysis with brilliant undulator source"  
*Nucl. Instr. Meth. A* 467-468 (2001) 1549.
- S. Murakami, K. Senoo, S. Toki, and S. Kohjiya  
 "Structural development of natural rubber during uniaxial stretching by in situ wide angle X-ray diffraction using a synchrotron radiation"  
*Polymer* 43 (2002) 2117.
- BL41XU**
- Y. Nakamura, T. Tada, K. Wada, T. Kinoshita, M. Tamoi, S. Shigeoka, and K. Nishimura  
 "Purification, crystallization and preliminary X-ray diffraction analysis of the fructose-1, 6-/sedoheptulose-1, 7-bisphosphatase of *Synechococcus PCC 7942"*  
*Acta Cryst. D* 57 (2001) 454.
- Y. Nakamura, T. Tada, K. Wada, T. Kinoshita, M. Tamoi, S. Shigeoka, and K. Nishimura  
 "Crystallization and preliminary X-ray diffraction analysis of NADP-dependent glyceraldehyde-3-phosphate dehydrogenase of *Synechococcus PCC 7942"*  
*Acta Cryst. D* 57 (2001) 879.
- K. Hamada, A. Seto, T. Shimizu, T. Matsui, Y. Takai, Sh. Tsukita, Sa. Tsukita, and T. Hakoshima  
 "Crystallization and preliminary crystallographic studies RhoGDI in complex with the radixin FERM domain."  
*Acta Cryst. D* 57 (2001) 889.
- Y. Yasutake, S. Watanabe, M. Yao, Y. Takada, N. Fukunaga, and I. Tanaka  
 "Crystallization and preliminary X-ray diffraction studies of monomeric isocitrate dehydrogenase by the MAD method using Mn atoms"  
*Acta Cryst. D* 57 (2001) 1682.
- M. Nakasako, T. Motoyama, and I. Yamaguchi  
 "Crystallization of scytalone dehydratase F162A mutant in the unligated state and a preliminary X-ray diffraction study at 37 K"  
*Acta Cryst. D* 58 (2002) 148.
- K. Wada, T. Tada, Y. Nakamura, T. Kinoshita, M. Tamoi, S. Shigeoka, and K. Nishimura  
 "Crystallization and preliminary X-ray diffraction studies of catalase-peroxidase from *Synechococcus PCC 7942"*  
*Acta Cryst. D* 58 (2002) 157.
- R. Kuroki, M. Hirose, Y. Kato, M. D. Feese, T. Tamada, H. Shigematsu, H. Watarai, Y. Maeda, T. Tahara, T. Kato, and H. Miyazaki  
 "Crystallization of the functional domain of human thrombopoietin using an antigen-binding fragment derived from neutralizing monoclonal antibody"  
*Acta Cryst. D* 58 (2002) 856.
- J-R. Shen and N. Kamiya  
 "Crystallization and the Crystal Properties of the Oxygen-Evolving Photosystem II from *Synechococcus vulgaris"*  
*Biochemistry* 39 (2000) 14739.

- Y. Kakuta, T. Horio, Y. Takahashi, and K. Fukuyama  
"Crystal Structure of Escherichia coli Fdx, an Adrenodoxin-Type Ferredoxin Involved in the Assembly of Iron-Sulfur Clusters"  
Biochemistry 40 (2001) 11007.
- K. Fukuyama, Y. Kakuta, and M. Sugishima  
"Crystal Structure of Rat Apo-Heme Oxygenase-1 (HO-1): Mechanism of Heme Binding in HO-1 Inferred from Structural Comparison of the Apo and Heme Complex Forms"  
Biochemistry 41 (2002) 7293.
- BL41XU&BL45XU**  
M. Nakasako  
"Large-scale networks of hydration water molecules around proteins investigated by cryogenic X-ray crystallography"  
Cell. Mol. Biol. 47 (2001) 767.
- Y. Hoiragi, Y. Seki, K. Ichimura, and K. Soda  
"Direct detection of the protein quaternary structure and denatured entity by a small-angle scattering method: Guanidine hydrochloride denaturation of chaperonin protein GroEL"  
J. Appl. Crystallogr. 35 (2002) 1.
- Y. Tomisugi, M. Unno, T. Mizushima, Y. Morimoto, N. Tanahashi, K. Tanaka, T. Tsukihara, and N. Yasuoka  
"New crystal forms and low resolution structure analysis of 20S proteasomes from bovine liver."  
J. Biochem. 127 (2000) 941.
- S. Kondo, A. Ohtaki, T. Tonozuka, Y. Sakano, and S. Kamitori  
"Studies on the Hydrolyzing Mechanism for Cyclodextrins of Thermoactinomyces vulgaris R-47 a-Amylase 2 (TVAII). X-Ray Structure of the Mutant E354A Complexed with b-Cyclodextrin, and Kinetic Analyses on Cyclodextrins"  
J. Biochem. 129 (2001) 423.
- BL41XU&BL40B2**  
S. Yajima and T. Nonaka  
"Crystal structure of 1-deoxy-D-xylulose 5-phosphate reductoisomerase complexed with cofactors: Implications of a flexible loop movement upon substrate binding"  
J. Biochem. 131 (2002) 313.
- T. Kobori, H. Sasaki, W. C. Lee, S. Zenno, K. Saigo, M. E. P. Murphy, and M. Tanokura  
"Structure and Site-directed Mutagenesis of a Flavoprotein from Escherichia"  
J. Biol. Chem. 276 (2001) 2816.
- T. Shimizu, A. Seto, N. Maita, K. Hamada, Sh. Tsukita, Sa. Tsukita, and T. Hakoshima  
"Structural Basis for Neurofibromatosis Type2. Crystal Structure of the Merlin Ferm Domain"  
J. Biol. Chem. 277 (2002) 10332.
- BL41XU&BL44XU**  
A. Ogawa, Y. Takayama, H. Sakai, K. T. Chong, S. Takeuchi, A. Nakagawa, S. Nada, M. Okada, and T. Tsukihara  
"Structure of the Carboxyl-terminal Src Kinase, Csk"  
J. Biol. Chem. 277 (2002) 14351.
- K. Fukuyama, T. Okada, Y. Kakuta, and Y. Takahashi  
"Atomic Resolution Structures of Oxidized [4Fe-4S] Ferredoxin from Bacillus thermoproteolyticus in Two Crystal Forms: Systematic Distortion of [4Fe-4S] Cluster in the Protein"  
J. Mol. Biol. 315 (2002) 1155.
- H. Itou, M. Yao, I. Fujita, N. Watanabe, M. Suzuki, J. Nishihira, and I. Tanaka  
"The Crystal Structure of Human MRP14 (S100A9), a Ca<sup>2+</sup>-dependent Regulator Protein in Inflammatory Process"  
J. Mol. Biol. 316 (2002) 265.
- F-A. Samatey, K. Imada, S. Nagashima, F. Vonderviszt, T. Kumasaka, M. Yamamoto, and K. Namba  
"Structure of the bacterial flagellar protofilament and implications for a switch for supercoiling"  
Nature 410 (2001) 331.
- G. Kurisu, M. Kusunoki, E. Katoh, T. Yamazaki, K. Teshima, Y. Onda, Y. Kimata-Ariga, and T. Hase  
"Structure of the electron transfer complex between ferredoxin and ferredoxin - NADP<sup>+</sup> reductase"  
Nat. Struct. Biol. 8 (2001) 117.
- M. Kawamoto, Y. Kawano, and N. Kamiya  
"The bio-crystallography beamline (BL41XU) at SPring-8"  
Nucl. Instr. Meth. A467-468 (2001) 1375.

T. Nogi, I. Fathir, M. Kobayashi, T. Nozawa, and K. Miki  
"Crystal structures of photosynthetic reaction center and high-potential iron-sulfur protein from *Thermochromatium tepidum*: Thermostability and electron transfer"  
Proc. Natl. Acad. Sci. USA 97 (2000) 13561.

N. Maita, K. Okada, K. Hatakeyama, and T. Hakoshima  
"Crystal structure of the stimulatory complex of GTP cyclohydrolase I and its feedback regulatory protein GFRP"  
Proc. Natl. Acad. Sci. USA 99 (2002) 1212.

A. Yamagata, Y. Kakuta, R. Masui, and K. Fukuyama  
"The crystal structure of exonuclease RecJ bound to Mn<sup>2+</sup> ion suggests how its characteristic motifs are involved in exonuclease activity"  
Proc. Natl. Acad. Sci. USA 99 (2002) 5908.

T. Okada, Y. Fujiyoshi, M. Silow, N. Javier, E. M. Landau, and Y. Shichida  
"Functional role of internal water molecules in rhodopsin revealed by X-ray crystallography"  
Proc. Natl Acad. Sci. USA 99 (2002) 5982.

M. V. Hosur, K. K. Kannan, and B. Pillai  
"1.9 Å X-ray Study Shows Closed Flap Conformation in Crystals of Tethered HIV-1 PR"  
Proteins 43 (2001) 57.

M. Nakasako, M. Sawano, and M. Kawamoto  
"An open-flow cryostat using helium gas for cryogenic X-ray diffraction experiments"  
Rev. Sci. Instrum. 73 (2002) 1318.

T. Nakashima, M. Yao, S. Kawamura, K. Iwasaki, M. Kimura, and I. Tanaka  
"Ribosomal protein L5 has a highly twisted concave surface and flexible arms responsible for rRNA binding"  
RNA 7 (2001) 692.

K. Kitano, N. Maeda, T. Fukui, H. Atomi, T. Imanaka, and K. Miki  
"Structure of a Novel-type Archaeal Rubisco with Pentagonal Symmetry"  
Structure 9 (2001) 473.

N. Sakai, M. Yao, H. Ito, N. Watanabe, F. Yumoto, M. Tanokura, and I. Tanaka  
"The three-dimensional structure of septum site-determining protein MinD from *Pyrococcus horikoshii* OT3 in complex with Mg-ADP"  
Structure 9 (2001) 817.

#### BL43IR

S. Kimura, T. Nanba, T. Sada, M. Okuno, M. Matsunami, K. Shinoda, H. Kimura, T. Moriwaki, M. Yamagata, Y. Kondo, Y. Yoshimatsu, T. Takahashi, K. Fukui, T. Kawamoto, and T. Ishikawa  
"Infrared spectromicroscopy and magneto-optical imaging stations at SPring-8"  
Nucl. Instr. Meth. A467-468 (2001) 893.

H. Okamura, K. Fukui, M. Matsunami, K. Terakami, M. Koyanagi, T. Koretsune, T. Moriwaki, H. Kimura, H. Nakagawa, Y. Kondo, and T. Nanba  
"Infrared experiments under laser excitations at SPring-8"  
Nucl. Instr. Meth. A467-468 (2001) 1465.

M. Sakurai, T. Moriwaki, H. Kimura, S. Nishida, and T. Nanba  
"Surface science station of the infrared beamline at SPring-8"  
Nucl. Instr. Meth. A467-468 (2001) 1481.

K. Shinoda, M. Yamakata, T. Nanba, H. Kimura, T. Moriwaki, Y. Kondo, T. Kawamoto, N. Niimi, N. Miyoshi, and N. Aikawa  
"High pressure phase transition and behavior of protons in brucite Mg(OH)<sub>2</sub>: A high pressure-temperature study using IR synchrotron radiation"  
Phys. Chem. Mineral. 29 (2002) 396.

#### BL44XU

H. Hosaka, M. Yao, M. Kimura, and I. Tanaka  
"The structure of the archaeabacterial ribosomal protein S7 and its possible interaction with 16S rRNA"  
J. Biochem. 130 (2001) 695.

## *BL45XU*

M. Nakasako, T. Fujisawa, S. Adachi, T. Kudo, and S. Higuchi  
"Large-Scale Domain Movements and Hydration Structure Changes in the Active-Site Cleft of Unligated Glutamate Dehydrogenase from Thermococcus profundus Studied by Cryogenic X-ray Crystal Structure Analysis and Small-Angle X-ray Scattering"  
*Biochemistry* 40 (2001) 3069.

## *BL45XU&BL02B1*

K. Sakurai  
"Complementary polynucleotide mimic behavior of a Natural Polysaccharide: Schizophyllan in the Macromolecular Complex with a Single Stranded RNA: Poly (C)"  
*Biomacromolecules* 2 (2001) 641.

H. Iwamoto, K. Oiwa, T. Suzuki, and T. Fujisawa  
"Locating the ATP-binding site in the acto-smooth muscle subfragment-1 complex by X-ray diffraction technique"  
*Biophys. J.* 80 (2001) 80a.

H. Iwamoto, K. Oiwa, J. Wakayama, and T. Fujisawa  
"X-ray diffraction pattern recorded from acto-smooth muscle myosin subfragment-1 complex after removal or exchange of light chains"  
*Biophys. J.* 82 (2002) 377a.

T. Oka, N. Yagi, F. Tokunaga, and M. Kataoka  
"Time-resolved X-ray diffraction reveals movement of F helix of D96N bacteriorhodopsin during M-MN transition at neutral pH"  
*Biophys. J.* 82 (2002) 2610.

H. Iwamoto, K. Oiwa, T. Suzuki, and T. Fujisawa  
"X-ray diffraction Evidence for the Lack of Stereospecific Protein Interactions in Highly Activated Actomyosin Complex"  
*J. Mol. Biol.* 305 (2001) 863.

H. Iwamoto, K. Oiwa, T. Suzuki, and T. Fujisawa  
"States of thin filament regulatory proteins as revealed by combined cross-linking/X-ray diffraction techniques"  
*J. Mol. Biol.* 317 (2002) 707.

K. Sakurai, Y. Ono, J-H. Jung, S. Okamoto, S. Sakurai, and S. Shinkai

"Synchrotron small angle X-ray scattering from organogels. Part 1. Changes in molecular assemblies of cholesterol gelators during gel-sol transition"  
*J. Chem. Soc. Perkin Trans. 2* (2001) 108.

S. Sakurai, D. Isobe, S. Okamoto, T. Yao, and S. Nomura  
"Collapse of the  $Ia\bar{3}d$  cubic symmetry by uniaxial stretching of a double-gyroid block copolymer"  
*Phys. Rev. E* 63 (2001) 061803-1.

S. Sakurai, S. Aida, T. Tamura, T. Kota, S. Okamoto, K. Sakurai, N. Tanaka, S. Kunugi, and S. Nomura  
"Some anomalies in pressure-induced ordering of glassy spheres in a rubbery matrix of a microphase-separated triblock copolymer"  
*Polymer* 43 (2002) 1959.

T. Oka, N. Yagi, T. Fujisawa, H. Kamikubo, F. Tokunaga, and M. Kataoka  
"Time-resolved X-ray diffraction reveals multiple conformations in the M-N transition of the bacteriorhodopsin photocycle"  
*Proc. Natl Acad. Sci. USA* 97 (2000) 14278.

S. Akiyama, S. Takahashi, T. Kimura, K. Ishimori, I. Morishima, Y. Nishikawa, and T. Fujisawa  
"Conformational Landscape of Cytochrome c Folding Studied by Microsecond-Resolved Small-Angle X-Ray Scattering"  
*Proc. Natl Acad. Sci. USA* 99 (2002) 1329.

## *BL46XU*

H. Yamaoka, M. Oura, T. Takahiro, N. Takeshima, K. Kawatsura, M. Mizumaki, U. Kleiman, N. Kabachnik, and T. Mukoyama  
"Angular distribution of Au and Pb L X-rays following photoionization by synchrotron radiation"  
*Phys. Rev. A* 65 (2002) 062713.

*BL47XU*

N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano,  
T. Ninomiya, S. Tamura, and M. Yasumoto  
"Hard X-ray microbeam experiments with a sputtered-sliced Fresnel zone plate and its applications"  
J. Synchrotron Rad. 9 (2002) 182.

*BL47XU&BL20XU*

M. Yasumoto, S. Tamura, N. Kamijo, Y. Suzuki, M. Awaji,  
A. Takeuchi, H. Takano, Y. Kohmura, and K. Handa  
"Suppression of corrugated boundaries in multilayer Fresnel zone plate for hard X-ray synchrotron radiation using cylindrical slit"  
Jpn. J. Appl. Phys. 40 (2001) 4747.

N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, K. Uesugi,  
M. Yasumoto, S. Tamura, Y. Kohmura, A. Duevel, D.  
Rudolph, and G. Schmahl  
"Characterization of the sputtered-sliced zone plate for high energy X-rays"  
Nucl. Instr. and Meth. A467-468 (2001) 868.

K. Hayashi, M. Miyake, T. Tobioka, Y. Awakura, M.  
Suzuki, and S. Hayakawa  
"Development of apparatus for multiple energy X-ray holography"  
Nucl. Instr. Meth. A467-468 (2001) 1241.

S. Harada, T. Suzuki, T. Sugimura, J. Kawai, S. Omori,  
and Y. Nihei  
"パラジウム単結晶の蛍光 X 線極角依存性測定の試み"  
分析化学 50 (2001) 405.

# Proceedings

## BL01B1

K. Ishii, H. Ootoshi, Y. Nishi, A. Fujiwara, H. Suematsu, and Y. Kubozono

"Crystal Structure and Magnetic Properties of Eu<sub>x</sub>Sr<sub>6-x</sub>C<sub>60</sub>"  
AIP Conf. Proc. 544 (2000) 29.

XIV Intl. Winterschool (Electronic properties of novel materials molecular nanostructre)/Kirchberg, Tirol, Austria, 2000.3.4-11.

H. Kasatani, M. Ohmura, K. Kobayashi, K. Yagi, and H. Terauchi

"Electron State and Local Structure around Sm-atom in Sm<sub>2</sub>Fe<sub>17</sub>N<sub>x</sub>"

AIP Conf. Proc. 554 (2001) 478.

Intl. Symp. on Physics in Local Lattice Distortions/Ibaraki, 2000.7.23-26.

Y. Ito, A. M. Vlaicu, and T. Tochio

"High Resolution X-ray emission spectroscopy"

AIP Conf. Proc. 576 (2000) 40.

Application of Accelerators in Research and Industry, 16th Intl. Conf./Denton, Texas, 2000.11.1-5.

K. Ishii, A. Fujiwara, H. Suematsu, and Y. Kubozono

"Ferromagnetic transition in europium fullerides Eu<sub>x</sub>Sr<sub>6-x</sub>C<sub>60</sub>"

AIP Conf. Proc. 590 (2001) 317.

Intl. Conf. on Nanonetwork Materials/Kamakura, 2001.1.15-18.

K. Tani, M. Harigaya, N. Yiwata, A. Watada, H. Tashiro, M. Shinotsuka, Y. Kageyama, K. Ito, Y. Nakata, and S. Emura  
"Structure of Ag-In-Sb-Te alloy films"

Proc. of the 13th Symp. on Phase Change Optical Information Storage (2001) 16.

PCOS2001/Yugawara, 2001.12.6.

S. Matsuo, N. Sakaguchi, K. Yamada, T. Matsuo, and H. Wakita

"種々の有機化合物に対するランタニドイオン吸着酸化チタンの光触媒活性と触媒表面の構造解析"

希土類 38 (2001) 272.

第 18 回希土類討論会/東京, 2001.5.10-11.

Y. Ichihashi and Y. Matsumura

"シリカ担持酸化銅触媒上でのエチレンと水の光酸化反応"  
触媒 42 (2000) 387.

第 86 回触媒討論会 / 鳥取 , 2000. 9. 19.

清瀧元, 中川茂友, 梶富賀敬, 林谷正雄

"In/ZSM5 触媒によるディーゼルエンジン排ガス中の NO<sub>x</sub> 選択還元反応における SO<sub>x</sub> 被毒の影響"  
触媒 43 (2001) 414.

第 88 回触媒討論会 / 別府市 , 2001.10.10.

K. Tabushi, T. Tamiya, S. Koyama, N. Narita, T. Shimozato, S. Yoshioka, M. Tsuzaka, Y. Obata, T. Uruga, H. Tanida, S. Ban, Y. Namito, and H. Sakaguchi

"An evaluation of characteristics of film badge using monochromatic X-ray"

放射線医学物理 19 (1999) 320.

第 78 回大会日本医学放射線物理学会大会/第 2 回日韓医学物理学術大会 , 1999.11.

T. Tamiya, K. Tabushiya, S. Koyama, M. Tsuzaka, N. Narita, Y. Ogata, Y. Obata, T. Uruga, H. Tanida, S. Ban, Y. Namito, T. Ikegami, and H. Sakaguchi

"Mixed low energy characteristics of radiophotoluminescence glass dosimeter"

放射線医学物理 19 (1999) 323.

第 78 回大会日本医学放射線物理学会大会/第 2 回日韓医学物理学術大会 , 1999.11.

T. Shimozato, K. Tabushiya, S. Koyama, N. Narita, S. Yoshioka, M. Tsuzaka, Y. Obata, T. Uruga, H. Tanida, S. Ban, and Y. Namito

"Linearity of radiophotoluminescence glass dosimeter based on monochromatic X-ray"

放射線医学物理 19 (1999) 327.

第 78 回大会日本医学放射線物理学会大会/第 2 回日韓医学物理学術大会 , 1999.11.

### *BL02B1*

S. Shimomura, T. Tonegawa, K. Torashima, K. Tajima, N. Wakabayashi, H. Kuwahara, Y. Tomioka, and Y. Tokura  
"X-ray Diffuse Scattering from  $(Nd_{1-y}Sm_y)_{1-x}Sr_xMnO_3$  and  $Pr_{1-x}Ca_xMnO_3$ "  
AIP Conf. Proc. 554 (2001) 437.  
Intl. Symp. on Physics in Local Lattice Distortions/Ibaraki, 2000.7.23-26.

S. Sasaki, T. Toyoda, M. Tanaka, Y. Noda, T. Shobu, and N. Ikeda  
"Synchrotron X-Ray Diffraction Study on the Verwey Transition in Magnetite"  
Ferrites: Proc. of the ICF 8 (2000) 135.  
Eighth Intl. Conf. on Ferrites (ICF-8)/Kyoto, Japan, 2000.9.18-21.

### *BL02B2*

T. Takenobu, M. Miyake, T. Muro, Y. Iwasa, and T. Mitani  
"Orientational and Magnetic Transitions in Ammoniated Alkali Metal Fullerides"  
AIP Conf. Proc. 590 (2001) 373.  
Intl. Conf. on Nanonetwork Materials/Kamakura, 2001.1.15-18.

T. Takenobu, Y. Iwasa, T. Ito, and T. Mitani  
"Synthesis and Structure of Alkaline Earth and Rare Earth Metal Doped  $C_{70}$ "  
AIP Conf. Proc. 590 (2001) 385.  
Intl. Conf. on Nanonetwork Materials/Kamakura, 2001.1.15-18.

D. H. Chi, X. H. Chen, T. Takenobu, T. Ito, Y. Iwasa, T. Mitani, E. Nishibori, M. Takata, and M. Sakata  
"Dimer Structure of  $Sm_3C_{70}$ "  
AIP Conf. Proc. 590 (2001) 447.  
Intl. Conf. on Nanonetwork Materials/Kamakura, 2001.1.15-18.

Y. Kubota  
"精密電子密度解析により調べた Laves 相金属間化合物の結合形態"  
KEK Proceedings 2001-17 (2001) 58.  
第2回粉末回折法討論会:近年における方法論の発展, つくば市 /2001.5.10-11.

U. Mizutani, T. Takeuchi, E. Banno, V. Fournier, M. Takata, and H. Sato

"Determination of Spatially hybridized Charge Distribution and its Effect on Electron Transport in the Al-Cu-Ru-Si 1/1-Approximant---Theoretical Basis for the Hume-Rothery rule---"

Mat. Res. Soc. Proc. 643 (2001) K13.1.1.

Mater. Res. Soc. Fall Meeting 2000 / Boston, USA, 2000.12.1.

### *BL04B1*

K. Tsuji, M. Inui, K. Tamura, M. Ohtani, N. Hosokawa, and N. Funamori  
"Structure of Liquid Tellurium at High Temperatures"  
Science and Technology of High Pressure 1 (2000) 510.  
AIRAPT-17/Honolulu, 1999.7.25.

K. Funakoshi, M. Kanzaki, A. Yasuda, A. Suzuki, H. Terasaki, and S. Yamashita  
"Viscosity measurement of albite melt under high-pressure using an in situ X-ray radiography technique"  
Science and Technology of High Pressure 2 (2000) 1023.  
AIRAPT-17/Honolulu, 1999.7.25.

### *BL04B2*

H. Ohno, K. Suzuya, S. Kohara, and N. Umesaki  
"高エネルギー X 線回折による酸化物ガラスの構造解析"  
Proc. Int. Congr. Glass 1 (2001) 37.  
XIX Intl. Congress on Glasses/Edinburgh, Scotland, UK, 2001.7.1.

A. Kajinami, H. Nishikawa, T. Kotake, S. Deki, I. Sakai, S. Kohara, and N. Umesaki  
"Structural Analysis of Hydrous Sodium Carboxylate Melt by High-energy X-ray Diffraction Measurement"  
Proceedings of 6th Intl. Symp. on Molten Salt Chem. Technol. (2001) 160.  
6th Intl. Symp. on Molten Salt Chem. and Technol.

H. Ushida, Y. Iwadate, T. Hattori, S. Nishiyama, K. Fukushima,  
M. Misawa, T. Fukunaga, N. Umesaki, and S. Kohara

"高エネルギー X 線回折法およびパルス中性子回折法による  
B<sub>2</sub>O<sub>3</sub>-Ag<sub>2</sub>O 系ガラスの短範囲構造解析"  
Proc. 22nd Japan Symp. on Thermophysical Properties  
(2001) 470.  
第 22 回日本熱物性シンポジウム.

A. Kajinami, M. Kubota, S. Deki, and N. Umesaki  
"High-energy X-ray Diffraction Measurements of Hydrous  
Sodium Carboxylate Melt"  
Proc. of the Eighth Japan-China Bilateral Conf. on Molten  
Salt (2000) 141.  
The Eighth Japan-China Bilateral Conf. on Molten  
Salt/Kitakyushu, 2001.11.29.

S. Kohara, K. Suzuya, and H. Ohno  
"高エネルギー X 線回折と逆モンテカルロ法によるランダ  
ム系物質の構造解析"  
溶融塩および高温化学 43 (2000) 137.  
第 142 回溶融塩委員会/兵庫県姫路市, 2000.5.22.

R. Hagiwara  
"HF 系アルキルイミダゾリウム室温溶融塩"  
溶融塩および高温化学 45 (2002) 7.  
第 147 回溶融塩化学委員会.

#### BL08W

H. Miyagawa, Y. Watanabe, N. Hiraoka, A. Koizumi, N.  
Sakai, and S. Nanao  
"Temperature Dependence of Magnetic Compton Profile  
in DyCo<sub>5</sub>"  
Proc. of the Intl. Conf. of MRS 2000 Fall Meeting (Solid-  
State Chemistry of Inorganic Materials III) 658 (2000)  
GG5.10.  
Mater. Res. Soc. Fall Meeting 2000 / Boston, USA.

#### BL09XU

T. Shimura, T. Hosoi, and M. Umeno  
"Epitaxially Ordered Structure in the Buried Oxide Layer  
of SIMOX Wafers"  
Proc. of the Fourth Intl. Symp. on Phys. and Chem. of  
SiO<sub>2</sub> and the Si-SiO<sub>2</sub> Interface 2000-2 (2000) 241.  
The Physics and Chemistry of SiO<sub>2</sub> and the Si-SiO<sub>2</sub> Interface  
4/Tronto, 2000.5.15.

T. Shimura, T. Hosoi, and M. Umeno  
"Ordered SiO<sub>2</sub> Structure in the Buried Oxide of SIMOX  
SOI Wafers"  
Proc. of the Fourth Symp. on Atomic-scale Surface and  
Interface Dynamics (2000) 395.  
The Fourth Symp. on Atomic-scale Surface and Interface  
Dynamics/Tsukuba, 2000.3.2-3.

T. Shimura, T. Hosoi, and M. Umeno  
"The Crystalline SiO<sub>2</sub> Phase in the BOX Layer of  
SIMOX Wafers"  
The Third SANKEN Intl. Symp. on Adv. Nanoelectronics:  
Devices, Materials, and Computing 57 (2000) 128.  
The Third SANKEN Intl. Symp. on Advanced Nanoelectronics:  
Devices, Materials, and Computing/Osaka, 2000.3.14.

T. Yamada, Y. Yoda, Y. Ohishi, S. Nasu, M. Seto, and O.  
Shimomura  
"Hematite の放射光を用いた高压下核共鳴非弾性散乱"  
高圧力の科学と技術 11 (2001) 236.  
第 42 回高压討論会/神戸市, 2001.11.22.

#### BL10XU

K. Hayashi, M. Matsui, Y. Awakura, T. Kaneyoshi, H.  
Tanida, and M. Ishii  
Local Structure Analysis of GaAs: Zn by X-ray Fluorescence  
Holography Using Multi-element SSD  
AIP Conf. Proc. 554 (2001) 498.  
Intl Symp. on Physics in Local Lattice Distortions/Ibaraki,  
2000.7.23-26.

E. Kamijo, Y. Aoi, M. Hisa, K. Tamaoka, W. Utsumi, T. Watanuki, and K. Yamaguchi

"Synthesis of Crystalline Carbon Nitride Thin Films by Electron Cyclotron Resonance Sputtering Method"

Proc. of 2000 Powder Metallurgy World Congress (2001) 1320.  
2000 Powder Metallurgy World Congress/Kyoto, 2000.11.12-16.

Y. Akahama, H. Kawamura, S. Carlson, T. Le Bihan, and D. Hausermann

"Optical and Structural Studies of Solid Oxygen High-Pressure Phases"

Science and Technology of High Pressure 1 (2000) 356.  
AIRAPT-17/Honolulu, 1999.7.25.

Y. Akahama, H. Kawamura, O. Shimomura, S. Carlson, T. Le Bihan, and D. Hausermann

"Structural Transitions in Phosphorus to 280 GPa"

Science and Technology of High Pressure 1 (2000) 463.  
AIRAPT-17/Honolulu, 1999.7.25.

K. Nakano, N. Matsui, Y. Akahama, Y. Ohishi, and H. Kawamura

"Ruby Scale at Low Temperature Calibrated by the NaCl Gauge"

Science and Technology of High Pressure 2 (2000) 1081.  
AIRAPT-17/Honolulu, 1999.7.25.

Y. Akahama, K. Nakano, S. Umemoto, K. Terakawa, T. Yoshii, E. Uemura, H. Kawamura, and O. Shimomura

" 固体酸素低温高圧相の構造と磁性 "

高圧力の科学と技術 10 (2000) 36.

第 41 回高圧討論会/柏市, 2000.11.6.

#### BL10XU&BL04B2

Y. Akahama, K. Nakano, S. Umemoto, K. Terakawa, T. Yoshii, H. Kawamura, and T. Lebihan

" チタンの圧力誘起構造相転移 "

高圧力の科学と技術 10 (2000) 138.

第 41 回高圧討論会/柏市, 2000.11.6.

K. Terakawa, K. Nakano, H. Kawamura, and Y. Akahama  
" ボロンの超高压 X 線回折 "

高圧力の科学と技術 10 (2000) 139.

第 41 回高圧討論会/柏市, 2000.11.6.

#### BL11XU

T. Yamada, Y. Yoda, Y. Ohishi, S. Nasu, M. Seto, T. Mitsui, O. Shimamura, and N. Hamaya

" $\text{SnI}_4$  の放射光を用いた高圧下核共鳴前方散乱 "

高圧力の科学と技術 11 (2001) 83.

第 42 回高圧討論会/神戸市, 2001.11.21.

#### BL20B2

E. Toyota, K. Fujimoto, Y. Ogasawara, T. Kajita, F. Shigeto, N. Watanabe, T. Asano, and F. Kajiyama

"Three-dimensional evaluation of dynamic changes in transmural coronary microvascular structure during cardiac cycle by super-photon X-ray and confocal laser imaging"  
Circulation 102 (2000) II-256.

73th American Heart Association, Scientific Sessions.

K. Umetani, T. Yamashita, N. Maehara, S. Imai, and Y. Kajihara

"X-Ray SATICON Based Direct-Sensing Detector for Small-Field Angiographic Imaging"

Proc. of Joint Symp. on Bio-Sensing and Bio-Imaging (2002)  
Joint Symp. on Bio-sensing and Bio-imaging 2001/  
Yamagata, 2001.8.2-4.

#### BL20B2&BL24XU

M. Ando, J. Roberson, E. Rubenstein, W. Pattanasiriwisawa, A. Maksimenko, H. Sugiyama, K. Hyodo, and C. Uyama

"Possible Detection of Bony Trabeculae, Vascular Channels in Auditory Ossicles and Breast Cancer by Means of X-Ray Dark Field Imaging"

Proc. of Joint Symp. on Bio-Sensing and Bio-Imaging (2002) 95.

Joint Symp. on Bio-sensing and Bio-imaging 2001/  
Yamagata, 2001.8.2-4.

W. Pattanasiriwisawa, H. Sugiyama, K. Hyodo, A. Maksimenko, S. Muratsu, and M. Ando

"Visualization of Biomedical Specimens by X-Ray Dark Field Imaging"

Proc. of Joint Symp. on Bio-Sensing and Bio-Imaging (2002) 105.

Joint Symp. on Bio-sensing and Bio-imaging 2001/  
Yamagata, 2001.8.2-4.

- K. Shimizu, J. Ikezoe, H. Ikura, H. Ebara, T. Nagareda, N. Yagi, K. Umetani, K. Uesugi, K. Okada, A. Sugita, and M. Tanaka  
 "Synchrotron radiation microtomography of the lung specimens"  
 Proc. SPIE 3977 (2000) 196.  
 Medical Imaging 2000: Physics of Medical Imaging/San Diego, 2000.2.14.
- K. Umetani, N. Yagi, Y. Suzuki, Y. Ogasawara, F. Kajiyama, T. Matsumoto, H. Tachibana, M. Goto, T. Yamashita, S. Imai, and Y. Kajihara  
 "Observation and analysis of microcirculation using high-spatial-resolution image detectors and synchrotron radiation"  
 Proc. SPIE 3977 (2000) 522.  
 Medical Imaging 2000: Physics of Medical Imaging/San Diego, 2000.2.14.
- K. Fukuda, T. Hosoi, T. Shimura, K. Yasutake, and M. Umeno  
 "Investigation of SOI Wafers by X-ray Diffraction Techniques"  
 Proc. of the 3rd Intl. Symp. on Adv. Sci. and Technol. of Silicon Materials 3 (2000) 636.  
 The 3rd Intl Symp. on Adv. Sci. and Technol. of Silicon Materials/Kona, 2000.11.20.
- H. Ikura, K. Shimizu, H. Ebara, J. Ikezoe, T. Nagareda, and N. Yagi  
 "3-D display of the peripheral microstructure of the lung, and 3-D models of the peripheral air flow using the volume data with synchrotron radiation CT"  
 Radiology 221 (P) (2001) 211.  
 The Radiol. Soc. of North America/Chicago, USA, 2001.11.25-30.
- K. Umetani, N. Yagi, and Y. Suzuki  
 "放射光と高解像度X線画像検出器を使った微小血管造影"  
 医用電子と生体工学 38 Suppl. (2000) 51.  
 第39回日本エム・イー学会大会/東京都, 2000.5.17.
- E. Toyota, K. Fujimoto, Y. Ogasawara, T. Matsumoto, and F. Kajiyama  
 "マイクロCTと共に焦点レーザ顕微鏡を用いた冠微小循環三次元画像解析"  
 医用電子と生体工学 38 Suppl. (2000) 52.  
 第39回日本エム・イー学会大会/東京都, 2000.5.17.
- K. Umetani, S. Itasaka, M. Ogura, H. Kimura, and M. Hiraoka  
 "放射光を使った担癌マウスの微小血管造影による腫瘍内血管構築の動態観察"  
 医用電子と生体工学 39 Suppl. (2001) 273.  
 第40回日本エム・イー学会大会/名古屋, 2001.5.9.
- Y. Ogasawara, E. Toyota, T. Kajita, F. Shigeto, and T. Matsumoto, T. Asano, and F. Kajiyama  
 "Micro-CT を用いた糖尿病性腎症の皮質内糸球体容量分布解析"  
 医用電子と生体工学 39 Suppl. (2001) 490.  
 第40回日本エム・イー学会大会/名古屋, 2001.5.9.
- 田中越郎, 八反尚一郎, 盛 英三, 佐藤江利子, 笠原啓史, 中島由紀子  
 "放射光微小血管造影法の現状と展望"  
 循環器画像技術研究 19 (2001) 10.  
 第166回循環器画像技術研究会/東京, 2000.6.24.
- K. Umetani, S. Itasaka, H. Kimura, K. Sasai, M. Hiraoka, and N. Yagi  
 "SPRING-8 の放射光を使った顕微鏡的血管造影による微小腫瘍血管撮影装置の開発"  
 バイオイメージング 9(3) (2000) 106.  
 第9回日本バイオイメージング学会学術集会/東京都, 2000.11.10.
- K. Umetani, S. Itasaka, M. Ogura, H. Kimura, and M. Hiraoka  
 "シンクロトロン放射光を使った担癌マウスの腫瘍内血管の微小血管造影"  
 バイオイメージング 10(3) (2001) 144.  
 第10回日本バイオイメージング学会学術集会/東京都, 2001.10.10-12.
- Y. Shoyama, E. Tanaka, Y. Shinozaki, Y. Sugio, N. Yagi, K. Umetani, H. Mori, and H. Nakazawa  
 "デュアルコントラスト造影法による肺血管造影法の開発"  
 日本呼吸器学会雑誌 39 (2001) 128.  
 第41回日本呼吸器学会総会/東京都, 2001.4.4.

## BL39XU

N. Haga

"放射光蛍光 X 線 - 風化生成物、生体鉱物、植物生体への応用"  
岩石鉱物科学 30 (2001) 86.  
日本鉱物学会 2000 年度年会/徳島.

## BL40B2

M. Hidaka, S. Fushinobu, N. Ohtsu, H. Motoshima, H. Matsuzawa, H. Shoun, and T. Wakagi  
"Thermus thermophilus A4 株由来・新規耐熱性 - ガラクトシダーゼおよび基質複合体の X 線結晶構造解析"  
応用糖質科学 49 (2002) 175.  
糖質関連酵素化学シンポジウム.

## BL40B2&BL41XU

K. Imada, S. Maki-Yonekura, K. Yonekura, F. Samatey, S. Nagashima, Y. Furukawa, and K. Namaba  
"バクテリアべん毛蛋白質 HAP2 が構成するキャップ複合体の X 線結晶構造解析"  
生物物理 41 Suppl. (2001) S126.  
日本生物物理学会第 39 回年会.

## BL40B2&BL41XU

T. Nakatsu, T. Hibi, H. Hisada, H. Kato, and J. Oda  
"大腸菌 B 株由来 - グルタミルシステイン合成酵素の結晶化"  
日本農芸化学会誌 73 (1999) 282.  
日本農芸化学会 1999 年度大会/福岡, 1999.4.1.

## BL45XU

H. Iwamoto, T. Suzuki, K. Oiwa, and T. Fujisawa  
"Effect of cross-linking agent, EDC, on the regulatory protein of skeletal muscle:An X-ray diffraction study"  
Zoological Science 17 Suppl. (2000) 48.  
第 70 回日本動物学会大会/山形, 2000.9.21-23.

H. Iwamoto, K. Oiwa, J. Wakayama, and T. Fujisawa  
"軽鎖を除去または交換したアクト-S1 複合体の ADP による構造変化の X 線回折"  
生物物理 41 Suppl. 1 (2001) S49.  
日本生物物理学会第 39 回年会/吹田, 2001.10.6-8.

N. Yagi

"X-ray diffraction studies on cardiac muscles"  
Microcirculation Annual 17 (2001) 11.  
日本微小循環学会/倉敷, 2001.12.15.

## BL47XU

A. Momose and K. Hirano

"Design of x-ray interferometer for phase-contrast x-ray microtomography"  
AIP Conf. Proc. 507 (2000) 98.  
The 6th Intl. Conf. on X-ray Microscopy/Berkeley, CA, USA, 1999.8.1-5.

Y. Kohmura, M. Awaji, Y. Suzuki, T. Ishikawa, Yu. I. Dudchik, N. N. Kolchevsky, and F. F. Komarov  
"Fabrication and Hard X-ray Focusing of X-ray Refractive Lens from Liquid Materials"  
AIP Conf. Proc. 507 (2000) 549.  
The 6th Intl Conf. on X-ray Microscopy/Berkeley, CA, USA, 1999.8.1-5.

K. Hagiya, M. Ohmasa, N. Haga, K. Ohsumi, Y. Koumura, K. Kusaka, K. Murakami, S. Noguchi, and S. Arai  
"Development of a micro-area diffraction equipment using monochromatic X-ray at SPring-8"  
KEK Proceedings 99-14 (1999) 95.  
PF wrokshop: "Earth and Planetary Science using Synchrotron Radiation"/ つくば, 1999.1.25-26.

S. Tamura, M. Yasumoto, T. Mihara, N. Kamijo, Y. Suzuki, M. Awaji, A. Takeuchi, H. Takano, and K. Handa  
"Development of multilayer Fresnel zone plate for high energy X-rays by DC sputtering deposition - Effect of cylindrical slit, substrate bias, melting point of alloy on suppression of zone roughness -"  
Proc. of 6th Intl. Symp. on Sputtering & Plasma Processes (ISSP'2001) (2001) 353.  
The 6th Intl. Symp. on Sputtering & Plasma Processes (ISSP2001)/Kanazawa, Japan, 2001.6.15.

K. Uesugi, Y. Suzuki, N. Yagi, A. Tsuchiyama, and T. Nakano

"Development of sub-micrometer resolution X-ray CT system at SPring-8"

Proc. SPIE 4503 (2002) 291.

2001 Symp. on Opt. Sci., Engineering, and Instrum./San Diego, 2001.7.

K. Umetani, N. Yagi, Y. Suzuki, Y. Kohmura, and K. Yamasaki

"SPring-8 での放射光を用いた X 線屈折コントラストイメージング "

医用電子と生体工学 37 Suppl. (1999) 202.

第 38 回日本エム・イー学会大会/仙台, 1999.4.21.

K. Hagiya

"微小領域回折法の開発とその応用例 "

岩石鉱物科学 30 (2001) 80.

日本鉱物学会 2000 年度年会/徳島, 2000.11.2-5.

BL47XU&BL20B2

A. Tsuchiyama, K. Uesugi, and T. Nakano

"SPring-8 における高分解能 X 線 CT 装置 (XTM) の開発とその隕石への応用 "

岩石鉱物科学 30 (2001) 94.

日本鉱物学会 2000 年度年会/徳島, 2000.11.2-5.

田村繁治, 安本正人, 上條長生, 鈴木芳生, 淡路晃弘, 竹内晃久, 高野秀和

"直流マグネットロンスパッタリング法による多層膜フレネルゾーンプレートの作製 ? スリットによる界面の平滑化効果 ?"

真空 44 (2001) 376.

第 41 回真空に関する連合講演会/大阪, 2000.10.26.

## Others

### BL01B1

K. Nakahara, H. Yamamoto, T. Shinagawa, M. Nagoshi, Y. Fujisawa, and T. Miyaji  
"液体キレート剤による飛灰の有害金属安定化処理"  
NKK 技報 No. 173 (2001) 1.

K. Tani, N. Yiwata, and M. Harigaya  
"放射光を用いた Sb-Te 系合金薄膜の局所構造解析"  
Ricoh Technical Report 27 (2001) 15.

T. Nakagawa, T. Yamamoto, Y. Kitauji, Y. Kobayashi, M. Katsura, and M. Katsura  
"K-edge X-ray Absorption Spectra of Rare Earth Elements in Their Oxides, Carbides and Nitrides"  
Technology Reports of The Osaka University 49 (1999) 209.

T. Shimozato, T. Tamiya, K. Tabushi, S. Koyama, S. Yoshioka, Y. Obata, M. Tsuzaka, N. Narita, T. Uruga, S. Ban, Y. Namito, and T. Ikegami  
"Evaluation of linearity for the radiophotoluminescence glass dosimeter based on monochromatic X-rays"  
医学物理 20 (2000) 151.

M. Takahashi, Y. Hashimoto, S. Kikkawa, and H. Kobayashi  
"( $\text{La}_{1-x}\text{Ln}_x$ )<sub>2</sub>O<sub>2</sub>CN<sub>2</sub> ( $\text{Ln} = \text{Pr, Sm, Eu, Tb}$ ) の合成と蛍光特性"  
材料 49 (2000) 1230.

Y. Ito, S. Emura, A. M. Vlaicu, T. Tochio, N. Shigeoka, H. OhHashi, and K. Kondo  
"蛍光 X 線分光法及びその装置"  
特願 2001-91860.

H. Yamada, S. Miyoshi, K. Okamoto, H. Sumida, and A. Takami  
"酸素貯蔵材担持 Pt-Rh 触媒の NO 還元触媒性能と貴金属担持状態"  
日本化学会誌 3 (2002) 435.

Y. Nishihata and H. Maeda  
"EXAFS 解析の諸問題について - 「EXAFS の解析に関するワークショップ」報告 - "  
放射光 10 (1997) 45.

Y. Nishihata

"高エネルギー領域の XAFS"  
放射光 11 (1998) 314.

Y. Katayama

"高压 XAFS"  
放射光 13 (2000) 385.

Y. Takahashi

"岩石中のセリウムの酸化還元状態がもたらす地球化学的知見"  
放射光 15 (2002) 86.

### BL02B1

K. Ohwada

"高压下における NaV<sub>2</sub>O<sub>5</sub> の構造物性"  
東京大学学位論文.

S. Sasaki

"放射光による遷移金属酸化物での電荷分布と混合原子価状態の研究"  
日本結晶学会誌 44 (2002) 104.

Y. Noda, T. Shobu, and N. Ikeda

"放射光 SPring-8 を用いた高压単結晶 X 線構造解析"  
日本高圧力学会誌 11 (2001) 211.

H. Yuya

"Diffuse X-ray Scattering Study of Defect Structure in Ni and Dilute Ni Alloys Irradiated with High-Energy Ions"  
名古屋大学学位論文.

### BL02B2

Y. Moritomo and A. Machida

"Phase separation problem ion doped manganites"  
Trasworld Research Network in Physics 2 (2001) 315.

坂田 誠、高田昌樹、西堀英治

"短波長放射光 X 線による電子密度分布"  
固体物理 35 (2000) 101.

K. Tanigaki

"Si および Ge 正 12 面体クラスタ固体における伝導と磁性"  
日本物理学会誌 56 (2001) 600.

Y. Moritomo

"マンガン酸化物における相分離現象"  
日本物理学会誌 57 (2002) 84.

M. Takata, E. Nishibori, and M. Sakata

"MEM/Rietveld 法による金属フラーレンの構造研究"  
放射光 13 (2000) 230.

M. Takata, E. Nishibori, K. Kato, Y. Kubota, Y. Kuroiwa,  
and M. Sakata

"IP を用いた高エネルギー放射光粉末 X 線回折"  
放射光 14 (2001) 190.

高田昌樹、西堀英治、坂田 誠

"MEM/Rietveld 法による精密構造物性の研究"  
までりあ 40 (2001) 267.

BL08W

K. Yamahana

"古代エジプト王銘付ガラス容器の分析と解釈 - ローマ時代のガラスとの比較を通して - "  
オリエント 44 (2001) 1.

BL10XU

Y. Izumi

"蛍光分光サイト選択 XAFS"  
Photon Factory News 19 (2001) 22.

K. Hayashi

"蛍光 X 線ホログラフィー - 不純物元素周りの原子を見る - "  
化学と工業 55 (2002) 113.

N. Hamaya

"DAC を用いた多結晶 X 線回折実験"  
高圧力の科学と技術 9 (1999) 263.

K. Sato and N. Hamaya

"ヨウ化スズの高圧力下における構造相転移"  
高圧力の科学と技術 10 (2000) 208.

I. Shirotani

"NaCl 型構造を持つ LnX (Ln= ランタニド、X=P, As, Sb) の圧力誘起相転移"  
高圧力の科学と技術 11 (2001) 50.

N. Hamaya and T. Watanuki

"8GeV 光 (BL10XU) をつかう超高压力下の物性研究"  
日本結晶学会誌 42 (2000) 51.

Y. Izumi and F. Kiyotaki

"状態識別 XAFS (X 線吸収微細構造) の原理と応用"  
表面 39 (2001) 276.

M. Ishii

"SCM-XAFS 法による半導体表面の顕微分光"  
表面科学 23 (2002) 374.

M. Ishii

"キャパシタンス XAFS 法局在電子を利用した自己サイト選択"  
放射光 14 (2001) 259.

BL04B2

梅咲則正

"溶融塩構造研究の新展開 (SPRING-8 の高エネルギー X 線を用いた新しい構造解析)"  
化学と工業 75 (2001) 30.

H. Yoshida, T. Saito, Y. Yamada, M. Azuma, and M. Takano  
"スピンドル子化合物 SrCu<sub>2</sub>O<sub>3</sub> および Sr<sub>2</sub>Cu<sub>3</sub>O<sub>5</sub> の圧力誘起構造相転移"  
粉体及び粉末冶金 49 (2002) 377.

S. Kohara and K. Suzuya

"SPRING-8 高エネルギー X 線回折ビームライン BL04B2 におけるランダム系物質の単色光エネルギー X 線回折"  
放射光 14 (2001) 365.

K. Suzuya and S. Kohara

"高エネルギー単色 X 線回折による酸化物ガラスの短範囲・中距離構造解析"  
までりあ 41 (2002) 206.

Y. Ohishi

"X 線屈折レンズを用いた高圧実験用集光光学系"  
放射光 14 (2001) 287.

BL10XU&BL39XU

K. Hayashi, Y. Takahashi, and E. Matsubara  
"蛍光 X 線ホログラフィー技術の現状とその将来的展開"  
まてりあ 40 (2001) 801.

H. Oyanagi

"X 線吸収分光のフロンティア"  
理学電機ジャーナル 33 (2002) 32.

BL14B1

草場啓治  
"硫化鉄(FeS)の高温高圧下での2次相転移"  
日本結晶学会誌 43 (2001) 180.

BL14B1&BL04B2

M. Azuma and M. Takano  
"GPa 領域での遷移金属酸化物単結晶育成"  
日本物理学会誌 57 (2002) 492.

S. Ishiwata, M. Azuma, T. Saito, S. Kawasaki, and M. Takano

"CaFeO<sub>3</sub>の高圧下単結晶育成"  
粉体及び粉末冶金 48 (2001) 715.

BL16B2

吉田洋之、出口博史、稻垣 亨、三浦和宏、堀内正樹  
"燃料電池材料の結晶格子内局所構造の解析"  
R & D News Kansai No. 12 (2000).

BL16B2&BL01B1

S. Matsuo  
"Correlation between Local Structure and Chemical Behaviors of Some Transition Metal Compounds as Studied by X-ray Absorption Spectroscopy"  
福岡大学博士学位論文 (2001).

BL16XU

大沢道夫、広瀬隆之、奥田修弘  
"放射光 (SPring-8) 利用による材料解析技術"  
富士時報 73 (2000) 493.

BL20B2

K. Imamura, M. Fukuda, N. Ehara, K. Miyamoto, Y. Kanemaki, K. Umetani, H. Haruki, and Y. Nakajima  
"Defects of a Mammography Quality Control Phantom Visualized by Synchrotron Radiation Imaging"  
医学物理 22 (2002) 48.

K. Umetani, T. Yamashita, N. Maehara, and S. Imai  
"X 線サチコンを使った放射光微小血管造影での腫瘍観察"  
映像情報メディア学会誌 56 (2002) 492.

K. Umetani, Y. Kozuka, H. Matsuki, M. Miyagawa, H. Ide, H. Eda, M. Endo, K. Uemura, T. Kobayashi, K. Sakamoto, K. Shiina, S. Sugiyama, Y. Suzuki, M. Taki, K. Futagawa, and H. Maezawa  
先端放射医療技術と計測 (2001) 21-24, 97-101p.

Y. Nakashima

"NMR 物理探査の原理"  
物理探査 55 (2002) 105.

K. Umetani

"高分解能動画像検出器を使った微小血管造影"  
放射光 14 (2001) 280.

BL24XU

T. Maeda, O. Shimoda, E. Muratsu, M. Shimoyama, K. Misaki, T. Nakanishi, T. Ninomiya, Y. Kagoshima, K. Takai, T. Ibuki, K. Yokoyama, S. Takeda, Y. Tsusaka, and J. Matsui  
"いん石の鑑定例"  
科学警察研究所報告 54 (2001) 11.

Y. Kagoshima, Y. Tsusaka, J. Matsui, K. Yokoyama, S. Takeda, K. Takai, and K. Yamasaki  
"X 線屈折コントラストイメージング"  
日本写真学会誌 64 (2001) 119.

- T. Kawamura, Y. Watanabe, Y. Utsumi, S. Fujikawa, J. Matsui, Y. Kagoshima, and Y. Tsusaka  
 "斜入射 X 線回折による気相中半導体表面の解析"  
 放射光 14 (2000) 128.
- S. Kimura  
 "高分解能マイクロビーム X 線回折法による InGaAsP 選択成長層の評価 - 第 3 世代放射光の産業利用の例として - "  
 放射光 15 (2002) 81.
- T. Ninomiya and S. Muratsu  
 "シンクロトロン放射光の科学検査への利用 - 放射光 X 線イメージングによる非破壊観察について - "  
 放射光 15 (2002) 96.
- M. Ando and H. Sugiyama  
 "X 線三色カメラ 'Trinity' と X 線暗視野カメラ 'Owl' "  
 理学電機ジャーナル 32 (2001) 16.
- BL40XU**
- T. Asano  
 "温度勾配下における高分子およびパラフィンの結晶成長機構"  
 高分子加工 51 (2002) 122.
- T. Oka, K. Inoue, and N. Yagi  
 "Spring-8 BL40XU における時分割 X 線回折測定技術"  
 放射光 14 (2001) 384.
- BL41XU**
- M. Nakasako, M. Sawano, and M. Kawamoto  
 "Development of an open-flow cryostat utilizing helium gas for cryogenic X-ray diffraction experiments"  
 The Rigaku Journal 18(2) (2001) 47.
- K. Namba, K. Yonekura, S. Maki-Yonekura, F. Samatey, and K. Imada  
 "細菌べん毛纖維の自己構築とらせんスイッチ機構"  
 細胞工学 20 (2001) 1371.
- N. Nakagawa, R. Masui, and S. Kuramitsu  
 "高度好熱菌のDNA 修復蛋白質 UvrB の構造と機能の関連"  
 蛋白質 核酸 酶素 46 (2001) 968.
- K. Namba, K. Yonekura, S. Maki, F. Samatey, and K. Imada  
 "細菌べん毛の分子構造から自己構築とサブオングストローム精度のスイッチ機構にせまる"  
 蛋白質 核酸 酶素 46 (2001) 1568.
- M. Nakasako, M. Sawano, and M. Kawamoto  
 "低温ヘリウムガス吹き付け型結晶冷却装置の開発"  
 理学電機ジャーナル 32 (2001) 8.
- BL25SU**
- S. Imada  
 "光電子顕微鏡を用いた磁区構造と磁性の元素選択的研究"  
 日本応用磁気学会誌 25 (2001) 1252.
- BL27SU**
- I. H. Suzuki, N. Saito, T. Ibuki, K. Okada, K. Kamimori, J. Sasaki, S. Nagaoka, Y. Shimizu, Y. Tamenori, and H. Ohashi  
 "Variation in Kr2p Auger electron spectra near the L3 threshold"  
 Atomic Collision Research in Japan 27 (2001) 53.
- BL40B2**
- T. Tamada, S. R. Ferri, T. Toguri, and R. Kuroki  
 "グリセロール-3-リン酸アシル基転移酵素の構造と機能"  
 構造生物 7(3) (2001) 40.
- BL40B2&BL41XU**
- BL43/R**
- 篠田圭司  
 "高温 DAC を用いた高温高圧下での鉱物中の OH の赤外分光"  
 高圧力の科学と技術 12 (2002) 145.

*BL45XU*

S. Aida

" ブロックコポリマーの外場によるミクロ相分離構造の秩

序化と配向に関する研究 "

京都工芸繊維大学学位論文 (2002)

H. Iwamoto

" ミオシンの「尻尾振り説」は正しいか ?"

生物物理 37 (2001) 9.

*BL47XU*

田村繁治, 安本正人, 上條長生, 鈴木芳生, 淡路晃弘, 竹内

晃久, 高野秀和, 香村芳樹, 半田克己

" 高輝度放射光 X 線用多層膜フレネルゾーンプレートの開  
発 "

真空 44 (2001) 815.

*BL47XU&BL20B2*

A. Tsuchiyama, K. Uesugi, and T. Nakano

" 高分解能 X 線 CT 法による岩石・鉱物の 3 次元構造の研  
究 - 太陽系初期物質とコンドリュール - "

地学雑誌 109 (2000) 845.